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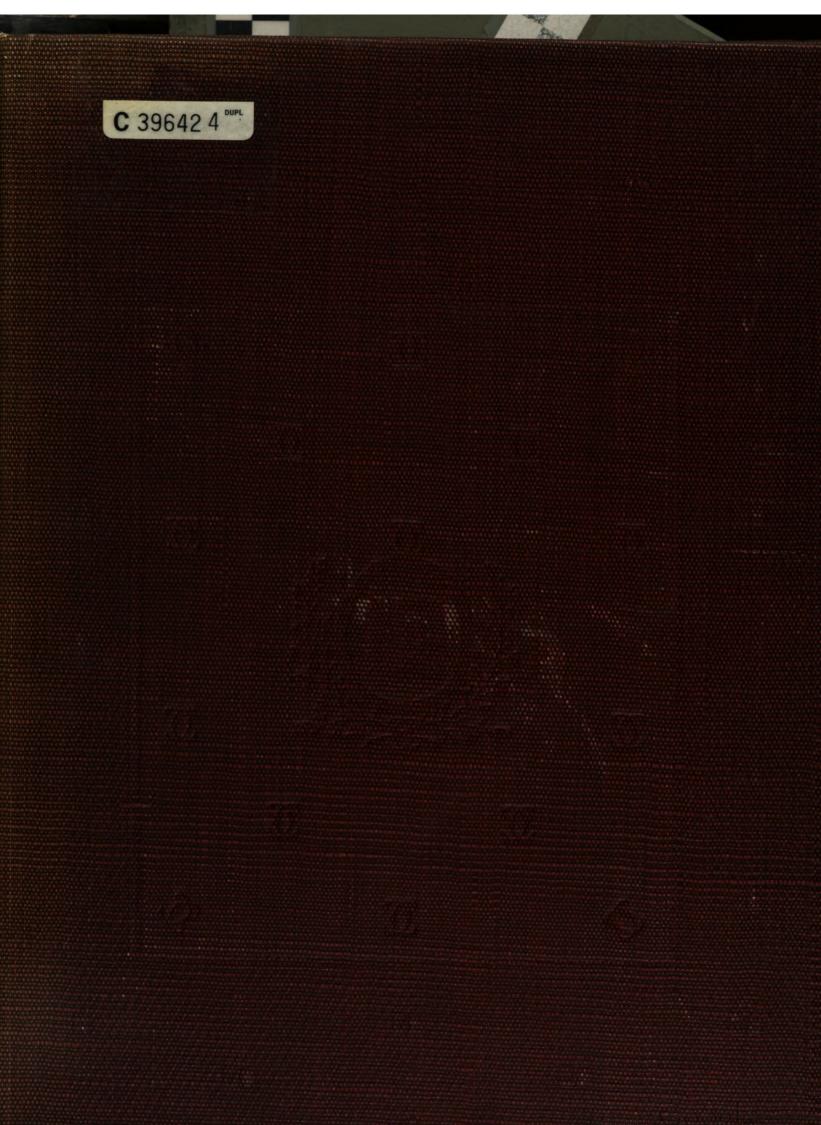
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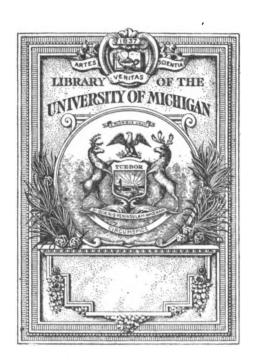
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THE

CENTURY DICTIONARY

AND

CYCLOPEDIA

A WORK OF UNIVERSAL REFERENCE IN ALL DEPARTMENTS OF KNOWLEDGE WITH A NEW ATLAS OF THE WORLD

VOLUME XI



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NEW YORK



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PUBLISHERS' NOTE ON THE COMPLETED WORK ·

The publication of the Atlas, which is incorporated in the present edition, completed the plan of The Century Dictionary and Cyclopedia. As the Cyclopedia of Names grew out of the Dictionary and supplemented it on its encyclopedic side, so the Atlas grew out of the Cyclopedia, and serves as an extension of its geographical material. Each of these works deals with a different part of the great field of words,—common words and names,—while the three, in their unity, constitute a work of reference which practically covers the whole of that field. The two new volumes now issued make the material of the Dictionary and Cyclopedia complete. The total number of words and names defined or otherwise described in the completed work is over 500,000.

The special features of each of these several parts of the book are described in the Prefaces which will be found in the first, ninth, tenth, and eleventh volumes. It need only be said that the definitions of the common words of the language are for the most part stated encyclopedically, with a vast amount of technical, historical, and practical information in addition to a wealth of purely philological material; that the same encyclopedic method is applied to proper names—names of persons, places, characters in fiction, books—in short, of everything to which a name is given; and that in the Atlas geographical names, and much besides, are exhibited with a completeness and serviceableness seldom equaled. Of the Century Dictionary and Cyclopedia as a whole, therefore, it may be said that it is in its own field the most complete presentation of human knowledge—scientific, historical, and practical—that exists.

Moreover, the method of distributing this encyclopedic material under a large number of headings, which has been followed throughout, makes each item of this great store of information far more accessible than in works in which a different system is adopted.

The first edition of The Century Dictionary was completed in 1891, that of the Century Cyclopedia of Names in 1894, that of the Atlas in 1897, and that of the two new volumes in 1909. Each of the works published at the earlier dates has been subjected to repeated careful revisions, and the results of this scrutiny are comprised in this edition.

THE DE VINNE PRESS

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PREFATORY NOTE.



HE CENTURY DICTIONARY (1889-91) was much the largest collection of the words of the English language that had been published. In it the number of words and 'phrases' at that time defined in general dictionaries of English was increased by upward of one hundred and twenty thousand. This additional collection included not a few words which had appeared in special glossaries and technical dictionaries, but much the greater

part of it was obtained by a systematic search through English literature, especially the literature of science and the arts. The labor and cost of effecting this very notable enlargement of the recorded English vocabulary have amply been justified by its utility to the many thousands of users of the book during the past twenty years.

The compilers of the Century were, however, aware that a dictionary record, whatever might be its degree of completeness at the date of publication, would in the future need to be enlarged on account of the continuous and rapid increase of the vocabulary of English, both common and technical. It was, in particular, very obvious that in many branches of science and technology the coinage of new terms and the development of new meanings would proceed — as they have in fact done — at a greatly accelerated pace. Accordingly, the work of collection was not ended by the publication of the dictionary, but has been continued ever since.

The result of this labor is presented in these two volumes, which supplement the original work. They contain additional words, senses, and defined 'phrases' representing the increase in scientific and technological terminology, as well as in the 'common' vocabulary, during the past twenty-five years, and possessing a high degree of technical importance and general interest. During this period — a period probably more productive of neologisms than any other of the same length in the history of the language — not only have many special sciences, or branches of sciences, been created, and remarkable extensions of the older sciences been effected, but the practical arts also (with commerce, exploration, and the like) have found innumerable new applications, methods, and objects; and with all of these advances have come new vocabularies, often of great extent, or new uses of old terms, which the dictionary must record. It is necessary to mention only such topics as radioactivity, aëronautics, immunity and serumtherapy, experimental psychology, the recent studies in heredity and organic development, the advances in cytology and embryology, and the progress in telegraphy and electrical technology in general, in order to indicate the extent and importance of these accretions. Much the same is true of the increase in the vocabularies of scientific and practical agriculture, of physiological chemistry, of medicine, and of many other subjects, scientific or practical. It should also be noted that a very considerable number of foreign (Spanish, French, etc.) words (names of plants, fabrics, materials, implements, institutions, and so on), especially terms in use in Hawaii, the Philippines, Porto Rico, and Spanish America generally, have of late acquired a quasi-English value (or, at least, interest) which the dictionary must recognize. In addition to this superabundant new growth there have also been included many words and senses of earlier origin, and also extensions of many encyclopedic articles and definitions. The total number of words, senses, and 'phrases' thus collected and here defined is about one hundred thousand —an addition comparable to that made by the original edition of the dictionary. It should be added, however, that the words and forms included, great as their number is, are still a selection, made under the general rules stated in the preface to the original edition (Vol. I.), to which for this and other prefatory matter the reader is referred. Many chemical and mineralogical terms, for example, have been added, but, of course, not all; important New Latin names in zoölogy and botany have been admitted, but (relatively) only a few; the obvious derivatives (which — actual and possible — are many thousands in number) from names of families, orders, etc., in zoölogy and botany are, with a few exceptions, not given; and provincialisms (except Americanisms and Australianisms) and obsolete words and expressions have, as a rule, been excluded.

As regards method of treatment and typographical style, it is enough to say that in these matters the plan of the main work has been closely followed. The various definitions and articles are designed to fit into the text of the earlier volumes without diversity of form, interruption of continuity, or repetition of matter. In accordance with this plan the fact that a given word in the supplementary vocabulary is additional or 'new' is indicated simply by the fact that it is followed by the respelling for pronunciation and, generally, by an etymological note; in the case of an additional sense or phrase, on the other hand, the title-word is not followed by the pronunciation and derivation; and the same is true of mere additions to articles in the main text. Cross-references to material in the supplementary volumes are distinguished by a star (*) placed before the word under which the material will be found. References not so distinguished are to the original volumes.

The various definitions and articles have been written by the contributors whose names are given in the list of collaborators and in the second paragraph below. Of the etymologies it should be said that in only a few cases has more than a brief explanatory statement been necessary, since most of the words are scientific coinages or other terms of simple and often obvious formation, or are foreign words (introduced into English in some special sense) of which, as a rule, in accordance with the custom of the dictionary, only the proximate source (as French or Italian or Spanish, etc.) is indicated.

During the progress of the work upon these volumes, but after the completion of their portions of it, several of the contributors have been removed by death. Dr. Richard Garnett, keeper of printed books of the British Museum, an early friend of the dictionary, died on April 12, 1906. On January 6, 1907, the eminent astronomer Professor Charles A. Young, also a kind and helpful friend of the Century from its earliest days, passed away. The death of Professor William K. Brooks, of the Johns Hopkins University, long distinguished for his services to biology, followed on November 12, 1908. On February 11, 1909, came the announcement of the death of Mr. Russell Sturgis, a learned student of architecture and connoisseur of art, one of the earliest and most important contributors to the dictionary. Mr. Henry G. Kittredge, an authority upon the textile industries, died on June 5, 1909. They were men eminent for scientific and scholarly attainments and all that makes for nobility of character.

It remains only to thank the very numerous helpers who have contributed special items of information or material, or have aided in the work of the editorial office or the press. Without the assistance of all, such completeness and accuracy as may have been attained would have been impossible. Special mention should be made of the assistance of Professor John Dewey, of Columbia University, in the defining of pragmatism and related terms; of the Bureau of Forestry and the Society of American Foresters, in granting through Mr. Gifford Pinchot the use of the manuscript of their glossary of terms in forestry and lumbering; of Dr. Robert Lilley, in contributing many definitions of Oriental (especially Chinese and Japanese) and other terms, and in aiding editorially in putting a part of the first volume through the press; of Mr. David White, of the United States Geological Survey, and Dr. Herbert J. Webber, of the United States Department of Agriculture, in defining various botanical terms; of Professor J. Bishop Tingle, of McMaster University, and Dr. Campbell E. Waters, of the United States Bureau of Standards, in assisting in the work on organic chemistry; of Dr. Whitman Cross, of the United States Geological Survey, in writing certain of the earlier definitions in petrography; of Professor Pierre A. Fish, of Cornell University, in defining various neurological terms; of Dr. Frank H. Chittenden, of the United States Department of Agriculture, in giving valued aid in the work on the entomological terms and illustrations; of Professor Harold Jacoby, of Columbia University; of Mr. H. C. Cassell, in contributing the definitions

relating to chess; of the late Mr. W. N. Fitzgerald, editor of "The Hub," in defining a large number of terms relating to vehicles and harness; of Mr. Benjamin Garno, in supplying definitions in billiards; of Mr. Charles De Kay, in defining terms in fencing; of Professor Edmund K. Alden, of the Packer Institute, in the definition of terms in general and political history; of Mr. Herbert H. Smith, in contributing, with definitions, a number of West Indian words; of Mr. E. C. Hinckley, in supplying the definitions of terms relating to tanning and leather-making; of Professor J. O. Schlotterbeck, of the University of Michigan, in defining a number of pharmaceutical terms; of Miss Edith M. Greer, of Pratt Institute, in defining terms in cooking; of Mrs. C. A. M. Hall of the Drexel Institute, in furnishing information with regard to needlework and embroidery; of Mr. James Means and Mr. Augustus Post, in furnishing valuable material relating to aëronautics; of Mr. Philip S. Smith, in the subject of physiography; of Miss Katharine B. Wood, in collecting much valuable material relating to common words; and of Miss Margaret Jackson and Miss Florence Gilmour, in most efficiently aiding in the work of the editorial office.

In the selection and criticism of the illustrations, which are about one thousand nine hundred in number, aid has been given by nearly all of the collaborators and also by many others. For the use of valuable material especial acknowledgment is due to Macmillan and Company, who have granted the use of cuts from their English edition of von Zittel's "Palæontology"; to the Metropolitan Museum of Art; to the American Museum of Natural History; to the Mount Wilson Solar Observatory; to the New York Institute for the Blind; to the Westinghouse Company; to the Forest Service, Washington; to the British School at Athens; to the British Museum; and to the Journal of Hellenic Studies.

To the second volume has been added a supplement to the Cyclopedia of Names (Vol. IX. of the Dictionary and Cyclopedia) of ninety-two pages, comprising a large number of new articles and also of additions to the articles contained in the various editions of that work.

BENJAMIN E. SMITH.

November 1, 1909.

ABBREVIATIONS

USED IN THE ETYMOLOGIES AND DEFINITIONS.

a., adjadjective.	enginengineering.	mechmechanics, mechani-	photog photography.
abbrabbreviation	entom entomology.	cal.	phren phrenology.
ablablative.	EpisEpiscopal.	med medicine.	physphysical.
accaccurative.	equivequivalent.	mensurmensuration.	physiol physiology.
accomaccommodated,accom-	espespecially.	metal metallurgy.	pl., plur plural.
modation.		metaphmetaphysics.	
	EthEthiopic.		poetpoetical.
actactive.	ethnogethnography.	meteormeteorology.	politpolitical.
advadverb.	ethnol ethnology.	MexMexican.	Pol Polish.
AF Anglo-French.	etymetymology.	MGrMiddle Groek, medie-	poss possessive.
agri agriculture.	Eur European.	val Grock.	pppast participle.
AL Anglo-Latin.	erclam exclamation.	MHGMiddle High German.	pprpresent participle.
alg algebra.	£, femfeminine.	milit military.	PrProvençal (usually
AmerAmerican.	F French (usually mean-	mineral mineralogy.	meaning Old Pro-
anatanatomy.	ing modern French).	MLMiddle Latin, medie-	vençal).
ancancient.	Flem Flemish.	val Latin.	pref prefix.
antiq antiquity.	fortfortification.	MLG Middle Low German.	preppreposition.
aoraorist.	freq frequentative.	modmodern.	pres present.
apparapparently.	Fries Friesic.	mycolmycology.	pretpreterit.
ArArabic.	fut future.	mythmythology.	priv privative.
archarchitecture.	G German (usually mean-	nnoun.	probprobably, probable.
archeolarcheology.	ing New High Ger-	n., neutneuter.	pron pronoun.
aritharithmetic.	man).	NNew.	pronpronounced, pronun-
artarticle.	Gael	NNorth.	ciation.
ASAnglo-Saxon.	galvgalvanism.	N. Amer North America.	propproperly.
astrolastrology.	gengenitive.	nat,natural.	prosprosody.
astron astronomy.	geog geography.	nautnautical.	Prot Protestant.
attribattributive.	geol geology.	navnavigation.	provprovincial.
augaugmentative.	geomgeometry.	NGrNew Greek, modern	psycholpsychology.
BavBavarian.	GothGothic (Mossogothic).	Greek.	q. vL. quod (or pl. quæ)
Beng Bengali.	GrGreek.	NHGNew High German	vide, which see.
biol biology.	gram grammar.	(usually simply G.,	refl reflexive.
Bohem Bohemian.	gun gunnery.	German).	reg regular, regularly.
botbotany.	HebHebrew.	NL	repr representing.
Bras Brazilian.	herheraldry.	Latin.	rhet rhetoric.
BretBreton.	herpetherpetology.	nomnominative.	RomRoman.
bryol bryology.	Hind	NormNorman.	RomRomanic, Romance
BulgBulgarian.	hist history.	northnorthern.	(languages).
carpcarpentry.	horolhorology.	NorwNorwegian.	Russ Russian.
Cat Catalan.	horthorticulture.	numisnumismatics.	8 South.
CathCatholic.	Hung	OOld.	S. Amer South American.
causcausative.	hydraul hydraulics.	obsobsolete.	sc L. sciliost, understand,
ceramceramics.	hydroshydrostatics.	obstetobstetrics.	supply.
cfL. confer, compare.	Icel Icelandic (usually	OBulg Old Bulgarian (other-	8c
		wise called Church	Scand Scandinavian.
chchurch.	meaning Old Ice-		
	——————————————————————————————————————		Scrip Scripture.
ChalChaldes.	landic, otherwise call-	Slavonic, Old Slavic,	Scrip Scripture.
ChalChaldee. chemchemical, chemistry.	landic, otherwise call- ed Old Norse).	Slavonic, Old Slavic, Old Slavonic).	sculpsculpture.
Chal	landic, otherwise called Old Norse). iohth,ichthyology.	Slavonic, Old Slavic, Old Slavonic). OCat Old Catalan.	sculp sculpture. Serv Servian.
Chal	landic, otherwise called Old Norse). iohth,iohthyology. i. e	Slavonic, Old Slavic, Old Slavonic). OCat	sculpsculpture. ServServian. singsingular.
Chal	landic, otherwise called Old Norse). ichth,ichthyology. i. e	Slavonic, Old Slavic, Old Slavonic). OCat	sculpsculpture. ServServian. singsingular. SktSanakrit.
Chal	landic, otherwise called Old Norse). iohth,ichthyology. i. e	Slavonic, Old Slavic, Old Slavonic). OCat	sculpsculpture. ServServian. singsingular. SktSanakrit. SlavSlavic, Slavonic.
Chal	landic, otherwise called Old Norse). iohth,ichthyology. i. e L. id est, that is. impersimpersonal. impfimperfect. impyimperative.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Danish. odontog. odontology.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanakrit. Slav. Slavic, Slavonic. Sp. Spanish.
Chal	landic, otherwise called Old Norse). ichthichthyology. i. eL. id est, that is. impersimpersonal. impfimperfect. impyimperfect. improperty.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Danish. odontog. odontography. odontol. odontogy. OF. Old French.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive.
Chal	landic, otherwise called Old Norse). ichth	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Danish. odontog. odontography. odontol. odontogy. OF. Old French. OFlem. Old Flemish.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanakrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative.
Chal	landic, otherwise called Old Norse). iohth, ichthyology. i. e. I. id est, that is. impers. impersonal. impf. imperfect. impv. imperstive. improp., improperly. Ind. Indian. ind. indicative.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Danish. odontog. odontography. odontol. odontology. OF. Old French. OFlem. Old Flemish. OGael. Old Gaelic.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanakrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surg. surgery.
Chal	landic, otherwise called Old Norse). iohth, ichthyology. i. e. L. id est, that is. impers. impersonal. impf. imperfect. impv. imperative. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Danish. odontog. odontography. odontol. odontology. OF. Old French. OFlem. Old Flemish. OGael. Old Gaelic. OHG. Old High German.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surgery. sury. surveying.
Chal	landic, otherwise called Old Norse). iohth, ichthyology. i. e. I. id est, that is. impers. impersonal. impf. imperfect. impv. imperstive. improp., improperly. Ind. Indian. ind. indicative.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Danish. odontog. odontography. odontol. odontology. OF. Old French. OFlem. Old Flemish. OGael. Old Gaelic. OHG. Old High German. OIr. Old Irish.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanakrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surg. surgery.
Chal	landic, otherwise called Old Norse). iohth, ichthyology. i. e. L. id est, that is. impers. impersonal. impf. imperfect. impv. imperative. improp. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. infinitive.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Danish. odontog. odontology. OF. Old French. OFlem. Old Flemish. OGael. Old Gaelic. OHG. Old High German. OIt. Old Italian.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surgery. sury. surveying.
Chal	landic, otherwise called Old Norse). iohth, ichthyology. i. e. L. id est, that is. impers. impersonal. impt. imperfect. impv. impersety. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Danish. odontog. odontography. odontol. odontology. OF. Old French. OFlem. Old Flemish. OGael. Old Gaelic. OHG. Old High German. OIr. Old Irish.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surgery. surgery. surveying. Sw. Swedish.
Chal	landic, otherwise called Old Norse). iohth, ichthyology. i. e. L. id est, that is. impers. impersonal. impf. imperfect. impv. imperative. improp. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. infinitive.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Danish. odontog. odontology. OF. Old French. OFlem. Old Flemish. OGael. Old Gaelic. OHG. Old High German. OIt. Old Italian.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanakrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surg. surgery. surv. surveying. Sw. Swedish. syn. synonymy.
Chal	landic, otherwise called Old Norse). iohth, ichthyology. i. e. I. id est, that is. impers. impersonal. impf. imperfect. impv. imperfect. impvop. improperly. Ind. Indian. ind. indicative. Indo-European. indef. indefinite. inf. infinitive. instr. instrumental.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. Old Ontch. Old Dutch. Old French. Old French. Old French. Old French. Old Gaelic. Old Gaelic. Old Old High German. Olt. Old Irish. Old Italian. Old Old Latin. Old Latin.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surg. surgery. surv. surveying. Sw. Swedish. syn. synonymy. Syr. Syriac.
Chal	landic, otherwise called Old Norse). iohth, ichthyology. i. e. I. id est, that is. impers. impersonal. impf. imperfect. impv. imperative. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. infinitive. instrumental. interj. interjection. intr., intrans. intransitive.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. Old Catalan. Old Dutch. Old French. Old French. Old French. Old French. Old Gaelic. Old Gaelic. Old High German. Olr. Old Irish. Olt. Old Italian. Ol. Old Latin. Old Low German.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surg. surgery. surv. surveying. Sw. Swedish. syn. synonymy. Syr. Syriac. technol. technology.
Chal	landic, otherwise called Old Norse). iohth, ichthyology. i. e. L. id est, that is. impers. impersonal. impf. imperfect. impv. impersety. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. infanitive. inf. infanitive. inf. instrumental. interj. interjection. intr., intrans. intransitive. Ir. Irish.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Danish. odontog. odontography. odontol. odontology. OF. Old French. OFlem. Old Flemish. OGael. Old Gaelic. OHG. Old High German. OIr. Old Irish. OIt. Old Italian. OL. Old Latin. OLG. Old Low German. ONorth. Old Northumbrian.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surgery. surgery. surveying. Sw. Swedish. syn synonymy. Syr. Syriac. technol. technology. teleg. Servian.
Chal	landic, otherwise called Old Norse). iohth. ichthyology. i. e. L. id est, that is. impers. impersonal. impf. imperfect. impv. imperfect. impv. imperative. impropen. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. instrumental. interj. interjection. intrans. intransitive. Ir. Irish. irregular, irregularly.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Danish. odontog. odontography. odontol. odontology. OF. Old French. OFlem. Old Flemish. OGael. Old Gaelic. OHG. Old High German. OIr. Old Italian. OI. Old Latin. OLG. Old Low German. ONorth. Old Northumbrian. OPruss. Old Prussian. OFg. Original, originally.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanakrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surgery. surv. surveying. Sw. Swedish. syn. synonymy. Syr. Syriac. technol. teohology. teleg. telegraphy. teratol. teratology. term. termination.
Chal	landic, otherwise called Old Norse). ichth, ichthyology. i. e. I. id est, that is. impers. impersonal. impf. imperfect. impv. imperfect. improp. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. infinitive. instr. instrumental. interj. interjection. intr., intrans. intransitive. Ir. Irish. irreg. irregular, irregularly. It. Italian.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Dutch. ODan. Old Dutch. Odontog. odontography. odontol. odontology. OF. Old French. OFlem. Old French. OFlem. Old Gaelic. OHG. Old High German. OIr. Old Irish. OIt. Old Italian. OI. Old Latin. OIG. Old Low German. ONorth. Old Northumbrian. OFruss. Old Prussian. orig. original, originally. ornith. ornithology.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surger, surgery. surv. surveying. Sw. Swedish. syn. synonymy. Syr. Syriac. technol. technology. teleg. telegraphy. teratol. termination. Teut. Teutonic.
Chal. Chaldee. chem. chemical, chemistry. Chin. Chinese. chron. chronology. colloq. colloquial, colloquially. com. commerce, commercial. compa. composition, compound. compar. comparative. conch. conchology. conj. conjunction. contr. contracted, contraction. Corn. Cornish. craniol. craniology. craniom. craniometry. crystal. crystallography. D. Dutch. Dan. Danish.	landic, otherwise called Old Norse). iohth, ichthyology. i. e. I. id est, that is. impers. impersonal. impf. imperfect. impv. imperfect. impv. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. infinitive. instr. instrumental. interj. interjection. intr., intrans. intransitive. Ir. Irish. irreg. irregular, irregularly. It. Italian. Jap. Japanese.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Dutch. ODan. Old Danish. odontog. odontography. odontol. odontology. OF. Old French. OFlem. Old French. OFlem. Old Gaelic. OHG. Old High German. OIr. Old Irish. OIt. Old Italian. OIL Old Low German. ONorth. Old Northumbrian. OFruss. Old Prussian. OFruss. Old Prussian. Org. original, originally. ornith. ornithology. OS. Old Saxon.	sculp. sculpture. Serv. Servian sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surer. surgery. surv. surveying. Sw. Swedish. syn synonymy. Syr. Syriac. technol. technology. teleg. telegraphy. teratol. teratology. term. termination. Teut. Teutonic. theat. theatrical.
Chal. Chaldee. chem. chemical, chemistry. Chin. Chinese. chron. chronology. colloq. colloquial, colloquially. com. commerce, commercial. compa. composition, compound. compar. comparative. conch. conchology. conj. conjunction. contracted, contraction. Corn. Cornish. craniol. craniology. craniom. craniometry. crystal crystallography. D. Dutch. Dan. Danish. dat. dative.	landic, otherwise called Old Norse). iohth, ichthyology. i. e. I. id est, that is. impers. impersonal. impf. imperfect. impv. imperative. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. infinitive. instr. instrumental. interj. interjection. intr., intrans. intransitive. Ir. Irish. irreg. irregular, irregularly. It. Italian. Jap. Japanese. I. Latin (usually mean-	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Danish. odontog. odontography. odontol. odontology. OF. Old French. OFlem. Old French. OFlem. Old Gaelic. OHG. Old High German. OIr. Old Irish. OIt. Old Italian. OI. Old Latin. OIG. Old Low German. ONorth. Old Northumbrian. OFruss. Old Prussian. orig. original, originally. ornith. ornithology. OS. Old Saxon. OSp. Old Spanish.	sculp. sculpture. Serv. Servian sing. singular. Skt. Sanakrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surgery. surv. surveying. Sw. Swedish. syn. synonymy. Syr. Syriac. technol. technology. teleg. telegraphy. teratol. termination. Teut. Teutonic. theat. theatrical. theol. theology.
Chal. Chaldee. chem. chemical, chemistry. Chin. Chinese. chron. chronology. colloq. colloquial, colloquially. com. commerce, commerce cial. comps. composition, compound. compar. comparative. conch. conchology. conj. conjunction. contr. contracted, contraction. Corn. Corniah. craniol. craniology. craniom. craniometry. crystal. crystallography. D. Duch. Dan. Danish. dat. dative. def. definite, definition.	landic, otherwise called Old Norse). iohth, ichthyology. i. e. L. id est, that is. impers. impersonal. impf. imperfect. impv. imperfect. improp. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. infinitive. instr. instrumental. interj. interjection. intr., intrans. intransitive. Ir. Irish. irreg. irregular, irregularly. It. Italian. Jap. Japanese. L. Latin (usually mean- ing classical Latin).	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Danish. odontog. odontography. odontol. odontology. OF. Old French. OFlem. Old Flemish. OGael. Old Gaelic. OHG. Old High German. OIr. Old Irish. OIt. Old Italian. OI. Old Latin. OLG. Old Latin. OLG. Old Low German. ONorth. Old Northumbrian. OFruss. Old Prussian. orig. original, originally. ornith. ornithology. OS. Old Spanish. osteol. osteology.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surgery. surveying. Sw. Swedish. syn. synonymy. Syr. Syriac. technol. technology. teleg. telegraphy. teratol. teratology. term. termination. Teut. Teutonic. theat. theatrical. theol. theology. therap. therapeutics.
Chal	landic, otherwise called Old Norse). iohth, ichthyology. i. e. I. id est, that is. impers. impersonal. impf. imperfect. impv. imperfect. impv. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. infinitive. instr. instrumental. interj. interjection. intr., intrana. intransitive. Ir. Irish. irreg. irregular, irregularly. It. Italian. Jap. Japanese. L. Latin (usually meaning dissical Latin). Lett. Lettish.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Dutch. ODan. Old Dutch. odontog. odontology. OF. Old French. OFlem. Old French. OFlem. Old Flemiah. OGael. Old High German. OIr. Old Irish. OIt. Old Latin. OL. Old Low German. ONorth. Old Northumbrian. OFruss. Old Prussian. orig. original, originally. ornith. ornithology. OS. Old Saxon. OSp. Old Spanish. osteol. osteology. OSw. Old Swedish.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surgery. surv. surgery. Sw. Swedish. syn. synonymy. Syr. Syriac. technol. teology. teleg. telegraphy. teratol. teratology. term. termination. Teut. Teutonic. theat. theatrical. theol. theology. therap therapeutica. toxicol. toxicology.
Chal. Chaldee. chem. chemical, chemistry. Chin. Chinese. chron. chronology. colloq. colloquial, colloquially. com. commerce, commercial. comp. composition, compound. compar. comparative. conch. conchology. conj. conjunction. contr. contracted, contraction. Corn. Corniah. craniol. craniology. craniom. craniometry. crystal. crystallography. D. Dutch. Dan. Daniah. dat. dative. def. definite, definition. deriv. derivative, derivation. dial. dialect, dialectal.	landic, otherwise called Old Norse). ichth, ichthyology. i. e. I. id est, that is. impers. impersonal. impf. imperfect. impv. imperfect. improp. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. infinitive. instr. instrumental. interj. interjection. intr., intrans. intransitive. Ir. Irish irreg. irregular, irregularly. It. Italian. Jap. Japanese. I. Latin (usually meaning classical Latin). Lett. Lettish. LG. Low German.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Dutch. ODan. Old Dutch. Odontog. odontography. odontol. odontology. OF. Old French. OFlem. Old French. OFlem. Old Flemish. OGael. Old High German. OIr. Old Irish. OIt. Old Irish. OIt. Old Latin. OLG. Old Low German. ONorth. Old Northumbrian. OFruss. Old Prussian. orig. original, originally. ornith. ornithology. OS. Old Saxon. OSp. Old Spanish. osteol. osteology. OSw. Old Swedish. OTeut. Old Teutonic.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surger, surgery. surv. surveying. Sw. Swedish. syn. synonymy. Syr. Syriac. technol. technology. teleg. telegraphy. teratol. termination. Teut. Teutonic. theat. theology. therap. therapeutics. toxicol. toxicology. tr., trans. transitive.
Chal. Chaldee. chem. chemical, chemistry. Chin. Chinese. chron. chronology. colloq. colloquial, colloquially. com. commerce, commercial. compa. composition, compound. compar. comparative. conch. conchology. conj. conjunction. contr. contracted, contraction. Corn. Cornish. craniol. craniology. craniom craniometry. crystal crystallography. D. Dutch. Dan. Danish. dat. dative. def. definite, definition. deriv. derivative, derivation. diff. different.	landic, otherwise called Old Norse). iohth, ichthyology. i. e. I. id est, that is. impers. impersonal. impf. imperfect. impv. imperfect. impv. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. infinitive. instr. instrumental. interj. interjection. intr., intrans. intransitive. Ir. Irish. irreg. irregular, irregularly. It. Italian. Jap. Japanese. L. Latin (usually meaning classical Latin). Lett. Lettish. IG. Low German. iichenol. lichenology.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Dutch. ODan. Old Danish. odontog. odontology. OF. Old French. OFlem. Old French. OFlem. Old Ffemish. OGael. Old High German. OIr. Old Irish. OIt. Old Irish. OIt. Old Latin. OLG. Old Low German. ONorth. Old Northumbrian. OFruss. Old Prussian. OFruss. Old Prussian. orig. original, originally. ornith. ornithology. OS. Old Saxon. OSp. Old Spanish. osteol. osteology. OSw. Old Swedish. OTeut. Old Teutonic. p. a. participial adjective.	sculp. sculpture. Serv. Servian sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish subj. subjunctive. superl. superlative. surer. surgery. surv. surveying. Sw. Swedish. syn. synonymy. Syr. Syriac. technol. technology. teleg. telegraphy. teratol. teratology. term. termination. Teut. Teutonic. theat. theatrical. theol. therapeutica. toxicology. tr., trans. transitive. trigon. trigonometry.
Chal. Chaldee. chem. chemical, chemistry. Chin. Chinese. chron. chronology. colloq. colloquial, colloquially. com. commerce, commerce cial. compa. composition, compound. compar. comparative. conch. conchology. conj. conjunction. contracted, contraction. Corn. Cornish. craniol. craniology. craniom. craniometry. crystal. crystallography. D. Dutch. Dan. Danish. dat. dative. def. definite, definition. deriv. derivative, derivation. dial. dialect, dialectal. diff. different. dim. diminutive.	landic, otherwise called Old Norse). iohth, ichthyology. i. e. L. id est, that is. impers. impersonal. impf. imperfect. impv. imperfect. impv. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. infinitive. instr. instrumental. interj. interjection. intr., intrans. intransitive. Ir. Irish. irreg. irregular, irregularly. It. Italian. Jap. Japanese. L. Latin (usually meaning classical Latin). Lett. Lettish. I.G. Low German. iichenol. ilichenology. lit. literal, literally.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Dutch. ODan. Old Danish. odontog. odontology. OF. Old French. OFlem. Old French. OFlem. Old French. OHG. Old High German. OIr. Old Irish. OIt. Old Italian. OI. Old Latin. OIG. Old Low German. ONorth. Old Northumbrian. OFruss. Old Prussian. Org. Original, originally. ornith. ornithology. OS. Old Saxon. OSp. Old Spanish. osteol. osteology. OSw. Old Swedish. OTeut. Old Teutonic. p. a. participial adjective. paleon. paleontology.	sculp. sculpture. Serv. Servian sing. singular. Skt. Sanakrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surgery. surv. surveying. Sw. Swedish. syn synonymy. Syr. Syriac. technol. technology. teleg. telegraphy. teratol. teratology. term. termination. Teut. Teutonic. theat. theatrical. theol. theology. therap therapeutics. toxicol. toxicology. tr, trans. transitive. trigon. trigonometry. Turk. Turkish.
Chal	landic, otherwise called Old Norse). iohth, ichthyology. i. e. I. id est, that is. impers. impersonal. impf. imperfect. impy. imperfect. improp. improperly. Ind. Indian. ind. indicative. Indo-European. indef. indefinite. inf. infinitive. instr. instrumental. interj. interjection. intr., intrans. intransitive. Ir. Irish. irreg. irregular, irregularly. It. Italian. Jap. Japanese. I. Latin (usually meaning classical Latin). Lett. Lettish. I.G. Low German. ilchenol. lichenology. iit. ilterall, ilterally. lit. literature.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Dutch. ODan. Old Danish. odontog. odontography. odontol. odontology. OF. Old French. OFlem. Old Flemish. OGael. Old Gaelic. OHG. Old High German. OIr. Old Irish. OIt. Old Italian. OL. Old Latin. OLG. Old Low German. ONorth. Old Northumbrian. OFruss. Old Prussian. orig. original, originally. ornith. ornithology. OS. Old Savon. OSp. Old Spanish. osteol. osteology. OSw. Old Swedish. OTeut. Old Teutonic. p. a. participial adjective. paleon. paleontology. part. participle.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surgery. surveying. Sw. Swedish. syn. synonymy. Syr. Syriac. technol. technology. teleg. telegraphy. teratol. teratology. term. termination. Teut. Teutonic. theat. theatrical. theol. theology. therap therapeutics. toxicol. toxicology. tr, trans. transitive. trigon. trigonometry. Turk. Turkish. typog. typography.
Chal. Chaldes. chem. chemical, chemistry. Chin. Chinese. chron. chronology. colloq. colloquial, colloquially. com. commerce, commercial. comp. composition, compound. compar. comparative. conch. conchology. conj. conjunction. contr. contracted, contraction. Corn. Corniah. craniol. craniology. craniom. craniometry. crystal. crystallography. D. Dutch. Dan. Daniah. dat. dative. def. definite, definition. deriv. derivative, derivation. dial. dialect, dialectal. diff. different. dim. diminutive. distrib. distributive. dram. dramatic.	landic, otherwise called Old Norse). ichth, ichthyology. i. e. L. id est, that is. impers. impersonal. impf. imperfect. impy. imperfect. improp. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. infinitive. instr. instrumental. interj. interjection. intr., intrans. intransitive. Ir. Irish. irreg. irregular, irregularly. It. Italian. Jap. Japanese. L. Lettish. Lett. Lettish. LG. Low German. ichenol. lichenology. lit. literally. lit. literally. lit. Lithuanian.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Dutch. ODan. Old Danish. odontog. odontology. OF. Old French. OFlem. Old French. OFlem. Old Flemish. OGael. Old High German. OIr. Old Irish. OIt. Old Italian. OL. Old Latin. OLG. Old Low German. ONorth. Old Northumbrian. OFruss. Old Prussian. OFruss. Old Prussian. OFruss. Old Saxon. OSp. Old Saxon. OSp. Old Saxon. OSp. Old Swedish. OTeut. Old Teutonic. p. a. participial adjective. paleon. paleontology. part. parsive.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surgery. surgery. surv. surveying. Sw. Swedish. syn. synonymy. Syr. Syriac. technology. teleg. telegraphy. teratol. technology. term. termination. Teut. Teutonic. theat. theatrical. theol. theology. therap therapeutics. toxicol. toxicology. tr., trans. transitive. trigon. trigonometry. Turk. Turkish. typog. typography. ult. ultimate, ultimately
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Chal. Chaldee. chem. chemical, chemistry. Chin. Chinese. chron. chronology. colloq. colloquial, colloquially. com. commerce, commercial. compa. composition, compound. compar. comparative. conch. conchology. conj. conjunction. contracted, contraction. Corn. Cornish. craniol. craniology. craniom. craniometry. crystal crystallography. D. Dutch. Dan. Danish. dat. dative. def. definite, definition. deriv. derivative, derivation. dial. dialect, dialectal. diff. different. dim. diminutive. distrib. distributive. dram. dramatic. dynam. dynamics. E. East. E. English (usually mean-	landic, otherwise called Old Norse). iohth, ichthyology. i. e. L. id est, that is. impers. impersonal. impf. imperfect. impv. imperfect. impv. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. infinitive. instr. instrumental. interj. interjection. intr., intrans. intransitive. Ir. Irish. irreg. irregular, irregularly. It. Italian. Jap. Japanese. L. Latin (usually meaning classical Latin). Lett. Lettish. I.G. Low German. ichenol. ilchenology. lit. ilteral, literally. lit. literalure. Lith Lithuanian. lithog. lithography. litholi lithology. L. Late Latin.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Dutch. ODan. Old Danish. odontog. odontology. OF. Old French. OFlem. Old French. OFlem. Old Flemish. OGael. Old Gaelic. OHG. Old High German. OIr. Old Irish. OIt. Old Italian. OL. Old Latin. OLG. Old Low German. ONorth. Old Northumbrian. OFruss. Old Prussian. orig. original, originally. ornith. ornithology. OS. Old Saxon. OSp. Old Spanish. osteol. osteology. OSw. Old Swedish. OTeut. Old Teutonic. p. a. participial adjective. paleon. paleontology. part. participle. pass. passive. pathology. perf. perfect. Pers. Persian.	sculp. sculpture. Serv. Servian sing. singular. Skt. Sanakrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surgery. surv. surveying. Sw. Swedish. syn. synonymy. Syr. Syriac. technol. technology. teleg. telegraphy. teratol. termination. Teut. Teutonic. theat. theatrical. theol. theology. therap. therapeutics. toxicol. toxicology. trigon. trigonometry. Turk. Turkish. typog. typography. ult. ultimate, ultimately v. verb. var: variant. vet. veterinary.
Chal. Chaldee. chem. chemical, chemistry. Chin. Chinese. chron. chronology. colloq. colloquial, colloquially. com. commerce, commercial. comp. composition, compound. compar. comparative. conch. conchology. conj. conjunction. contr. contracted, contraction. Corn. Corniah. craniol. craniology. craniom. craniometry. crystal. crystallography. D. Dutch. Dan. Daniah. dat. dative. def. definite, definition. deriv. derivative, derivation. dial. dialect, dialectal. diff. different. dim. diminutive. distrib. distributive. dram. dramatic. dynam. dynamics. E. East. E. English (usually meaning modern English). ecol., ecoles. ecclesiastical.	landic, otherwise called Old Norse). ichth, ichthyology. i. e. L. id est, that is. impers. impersonal. impf. imperfect. impy. imperfect. impy. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. infinitive. instr. instrumental. interj. interjection. intr., intrans. intransitive. Ir. Irish. irreg. irregular, irregularly. It. Italian. Jap. Japanese. L. Latin (usually meaning classical Latin). Lett. Lettish. I.G. Low German. ichenol. lichenology. lit. literall, litterally. lit. literally. lith. Lithuanian. lithog. lithography. lithol. lithology. I.L. Late Latin. m., masc. masculine.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Danish. odontog. odontology. OF. Old French. OFlem. Old French. OFlem. Old Flemish. OGael. Old Gaelic. OHG. Old High German. OIr. Old Irish. OIt. Old Latin. OIA. Old Low German. ONorth. Old Northumbrian. OFruss. Old Prussian. OFruss. Old Prussian. orig. originally. ornith. ornithology. OS. Old Saxon. OSp. Old Saxon. OSp. Old Swedish. OTeut. Old Swedish. OTeut. Old Teutonic. p. a. participial adjective. paleon. paleontology. part. participle. pass. passive. pathol. pathology. perf. perfect. Pers. Persian. pers. Persian.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surger, surgery. surv. surveying. Sw. Swedish. syn. synonymy. Syr. Syriac. technol. technology. teleg. telegraphy. teratol. teratology. term. termination. Teut. Teutonic. theat. theatrical. theol. theology. therap. therapeutics. toxicol. toxicology. tr., trans. transitive. trigon. trigonometry. Turk. Turkish. typog. typography. ult. ultimate, ultimately v. verb. var: variant. vet. veterinary. v. intransitive verb.
Chal. Chaldee. chem. chemical, chemistry. Chin. Chinese. chron. chronology. colloq. colloquial, colloquially. com. commerce, commercial. comp. composition, compound. compar. comparative. conch. conchology. conj. conjunction. contr. contracted, contraction. Corn. Corniah. craniol. craniology. craniom. craniometry. crystal. crystallography. D. Dutch. Dan. Danish. dat. dative. def. definite, definition. deriv. derivative, derivation. dial. different. dim. diminutive. distrib. distributive. dram. dramatic. dynam. dynamics. E. East. E. English (www. Www. ecol., ecol.e. ecclesiastical.	landic, otherwise called Old Norse). ichth, ichthyology. i. e. I. id est, that is. impers. impersonal. impf. imperfect. impv. imperfect. impv. improperly. Ind. Indian. ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. infinitive. instr. instrumental. interj. interjection. intr., intrans. intransitive. Ir. Iriah. irreg. irregular, irregularly. It. Italian. Jap. Japanese. I. Lettiah. I.G. Low German. ichenol. lichenology. lit. ilterally. lit. literature. Lith. Lithuanian. lithog. lithography. lithol. lithology. II. Late Latin. m., masc. masculine. M. Middle. mach. machinery.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Danish. odontog. odontography. odontol. odontology. OF. Old French. OFlem. Old French. OFlem. Old High German. OIr. Old Irish. OIt. Old Italian. OIL Old Latin. OLG. Old Low German. ONorth. Old Northumbrian. OFrusa. Old Prussian. orig. original, originally. ornith. ornithology. OS. Old Saxon. OSp. Old Spanish. osteol. osteology. OSw. Old Swedish. OTeut. Old Teutonic. p. a. participle. pass. passive. pathol. pathology. part. perfect. Pers. Persian. persp. perspective. Peruv. Peruvian.	sculp. sculpture. Serv. Servian sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. superl. superlative. surgery. surv. surveying. Sw. Swedish. syn. synonymy. Syr. Syriac. technol. technology. teleg. telegraphy. teratol. teratology. term. termination. Teut. Teutonic. theat. theatrical. theol. theology. therap therapeutica. toxicol. toxicology. tr., trans. transitive. trigon. trigonometry. Turk. Turkish. typog. typography. ult. ultimate, ultimately v. verb. var: variant. vet veterinary. v.i. intransitive verb. W. Welsh.
Chal. Chaldee. chem. chemical, chemistry. Chin. Chinese. chron. chronology. colloq. colloquial, colloquially. com. commerce, commercial. compa. composition, compound. compar. comparative. conch. conchology. conj. conjunction. contracted, contraction. Corn. Cornish. craniol. craniology. craniom. craniometry. crystal. crystallography. D. Dutch. Dan. Danish. dat. dative. def. definite, definition. deriv. derivative, derivation. diff. different. dim. diminutive. distrib. distributive. dramatic. dynam. dynamics. E. East. E. English (usually meaning modern English). ecol., eccles. ecclesiastical. econ. economy. e. g. L. exempli gratia, for	landic, otherwise called Old Norse). iohth, ichthyology. i. e. I. id est, that is. impers. impersonal. impf. imperfect. impy. imperfect. impy. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. infinitive. instr. instrumental. interj. interjection. intr., intrans. intransitive. Ir. Irish. irreg. irregular, irregularly. It. Italian. Jap. Japanese. I. Latin (usually meaning classical Latin). Lett. Lettish. I.G. Low German. ichenol. lichenology. lit. literal, literally. lit. literal. Lith. Lithuanian. lithog. lithography. lithol. lithography. lithol. lithography. lithol. masculine. M. Middle. mach. machinery. mammal. manmalogy.	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Dutch. ODan. Old Danish. odontog. odontography. odontol. odontology. OF. Old French. OFlem. Old French. OFlem. Old Flemish. OGael. Old Gaelic. OHG. Old High German. OIr. Old Irish. OIt. Old Irish. OIt. Old Latin. OLG. Old Low German. ONorth. Old Northumbrian. OPruss. Old Prussian. orig. original, originally. ornith. ornithology. OS. Old Saxon. OSp. Old Spanish. osteol. osteology. OSw. Old Swedish. OTeut. Old Teutonic. p. a. participial adjective. paleon. paleontology. part. participle. pass. passive. pathol. pathology. perf. Persian. pers. Persian. pers. Persian. pers. Persian. pers. Persuvan. petrog. Petrography.	sculp. sculpture. Serv. Servian sing. singular. Skt. Sanakrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. surgery. surv. surveying. Sw. Swedish. syn synonymy. Syr. Syriac. technol. technology. teleg. telegraphy. teratol. teratology. term. termination. Teut. Teutonic. theat. theatrical. theol. theology. therap therapeutica. toxicol. toxicology. tr, trans. transitive. trigon. trigonometry. Turk. Turkish. typog. typography. ult. ultimate, ultimately v. verb. var: variant. vet. veterinary. v. i. intransitive verb. w. Welsh. Walloon.
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Chal. Chaldee. chem. chemical, chemistry. Chin. Chinese. chron. chronology. colloq. colloquial, colloquially. com. commerce, commercial. comp. composition, compound. compar. comparative. conch. conchology. conj. conjunction. contr. contracted, contraction. Corn. Corniah. craniol. craniology. craniom. craniometry. crystal. crystallography. D. Dutch. Dan. Danish. dat. dative. def. definite, definition. deriv. derivative, derivation. dial. dislect, dialectal. diff. different. dim. diminutive. distrib. distributive. dram. dramatic. dynam. dynamics. E. East. E. English (usually meaning modern English). ecol., ecolea. ecclesiastical. econ. economy. e. g. L. exempli gratia, for example. Egypt. Egyptian. E. Ind. East Indian. elect. electricity.	landic, otherwise called Old Norse). iohth, ichthyology. i. e. I. id est, that is. impers. impersonal. impf. imperfect. impy. imperfect. impv. imperfect. improp. improperly. Ind. Indian. ind. indicative. Indo-Eur. Indo-European. indef. indefinite. inf. infinitive. instr. instrumental. interj. interjection. intr., intrans. intransitive. Ir. Irish. irreg. irregular, irregularly. It. Italian. Jap. Japanese. I. Iatin (usually meaning classical Latin). Lett. Lettish. I.G. Low German. ichenol. lichenology. lit. ilteral, literally. lit. literature. Lith. Lithuanian. lithog. lithography. lithol. lithology. I.L. Late Latin. m., masc. masculine. M. Middle. mach. machinery, mammal. mammalogy. manuf. manufacturing. math. mathematics. MD. Middle English (other-	Slavonic, Old Slavic, Old Slavonic). OCat. Old Catalan. OD. Old Dutch. ODan. Old Dutch. ODan. Old Danish. odontog. odontography. odontol. odontology. OF. Old French. OFlem. Old French. OFlem. Old French. OHG. Old High German. OIr. Old Irish. OIt. Old Italian. OIL. Old Latin. OLG. Old Low German. ONorth. Old Northumbrian. OFruss. Old Prussian. orig. original, originally. ornith. ornithology. OS. Old Saxon. OSp. Old Spanish. osteol. osteology. OSw. Old Swedish. OTeut. Old Teutonic. p. a. participle. pass. passive. pathol. pathology. perf. perfect. Pers. Persian. persp. perspective. Peruv. Peruvian. petrog. pharmacy. Phen. Phenician. philology.	sculp. sculpture. Serv. Servian. sing. singular. Skt. Sanskrit. Slav. Slavic, Slavonic. Sp. Spanish. subj. subjunctive. superl. superlative. superl. superlative. surgery. surv. surveying. Sw. Swedish. syn. synonymy. Syr. Syriac. technol. technology. teleg. telegraphy. teratol. teratology. term. termination. Teut. Teutonic. theat. theatrical. theol. theology. therap therapeutica. toxicol. toxicology. tr., trans. transitive. trigon. trigonometry. Turk. Turkish typog. typography. ult. ultimate, ultimately v. verb. var: variant. vet veterinary. v. i. intransitive verb. W. Welsh. Wall. Walloon. Wallachian. W. Ind. West Indian. soögeog. zoögeography. zoöl. zoölogy.
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KEY TO PRONUNCIATION.

- a as in fat, man, pang.
- ā as in fate, mane, dale.
- as in far, father, guard.
- å as in fall, talk, naught.
- a as in ask, fast, ant.
- ã as in fare, hair, bear.
- e as in met, pen, bless.
- ē as in mete, meet, meat.
- è as in her, fern, heard.
- i as in pin, it, biscuit.
- i as in pine, fight, file.
- o as in not, on, frog.
- ō as in note, poke, floor.
- ö as in move, spoon, room.
- ô as in nor, song, off.
- u as in tub, son, blood.
- ū as in mute, acute, few (also new, tube, duty: see Preface, pp. ix, x).
- t as in pull, book, could.
- ti German ti, French u.

oi as in oil, joint, boy.
ou as in pound, proud, now.

A single dot under a vowel in an unaccented syllable indicates its abbreviation and lightening, without absolute loss of its distinctive quality. See Preface, p. xi. Thus:

- ă as in prelate, courage, captain.
- ē as in ablegate, episcopal.
- ō as in abrogate, eulogy, democrat.
- ū as in singular, education.

A double dot under a vowel in an unaccented syllable indicates that, even in the mouths of the best speakers, its sound is variable to, and in ordinary utterance actually becomes, the short *u*-sound (of but, pun, etc.). See Preface, p. xi. Thus:

- a as in errant, republican.
- e as in prudent, difference.
- as in charity, density.
- o as in valor, actor, idiot.

Book and chanter

- as in Persia, peninsula.
- e as in the book.
- ŭ as in nature, feature.

A mark (\smile) under the consonants t, d, s, z indicates that they in like manner are variable to ch, j, sh, zh. Thus:

- t as in nature, adventure.
- d as in arduous, education.
- s as in pressure.
- z as in seizure.
- th as in thin.
- TH as in then.
- ch as in German ach, Scotch loch.
- h French nasalizing n, as in ton, en.
- ly (in French words) French liquid (mouillé) L'denotes a primary, a secondary accent. (A secondary accent is not marked if at its regular interval of two syllables from the primary, or from another secondary.)

SIGNS.

- < read from; i. e., derived from.</pre>
- > read whence; i. e., from which is derived.
- + read and; i. e., compounded with, or with suffix.
- = read cognate with; i. e., etymologically parallel with.
- √ read root.
- * read theoretical or alleged; i.e., theoretically assumed, or asserted but unverified, form.
- t read obsolete.
- ★ references so marked are to the supplementary volumes.

SPECIAL EXPLANATIONS.

A superior figure placed after a title-word indicates that the word so marked is distinct etymologically from other words, following or preceding it, spelled in the same manner and marked with different numbers. Thus:

back¹ (bak), n. The posterior part, etc.
back¹ (bak), a. Lying or being behind, etc.
back¹ (bak), v. To furnish with a back, etc.
back¹ (bak), adv. Behind, etc.
back² (bak), n. The earlier form of bat².
back³ (bak), n. A large flat-bottomed boat,

Various abbreviations have been used in the credits to the quotations, as "No." for number, "st." for stanza, "p." for page, "l." for line, I for paragraph, "fol." for folio. The method used in indicating the subdivisions of books will be understood by reference to the following plan:

Section only	§ 5.
Chapter only	xiv.
Canto only	xiv.
Book only	iii.

DOOK and chapter	1
Part and chapter	
Book and line	
Book and page) iii. 10.
Act and scene	
Chapter and verse	
No. and page	1
Volume and page	
Volume and chapter	
Part, book, and chapter	
Part, canto, and stanza	
Chapter and section or ¶	
Volume, part, and section or ¶ .	
Book, chapter, and section or ¶.	
, . ,	

Different grammatical phases of the same word are grouped under one head, and distinguished by the Roman numerals I., II., III., etc. This applies to transitive and intransitive uses of the same verb, to adjectives used also as nouns, to nouns used also as adjectives, to adverbs used also as prepositions or conjunctions, etc.

The capitalizing and italicizing of certain or all of the words in a synonym-list indicates that the words so distinguished are discriminated in the text immediately following, or under the title referred to.

The figures by which the synonym-lists are sometimes divided indicate the senses or definitions with which they are connected.

The title-words begin with a small (lower-case) letter, or with a capital, according to usage. When usage differs, in this matter, with the different senses of a word, the abbreviations [cap.] for "capital" and [l. c.] for "lower-case" are used to indicate this variation.

The difference observed in regard to the capitalizing of the second element in zoölogical and botanical terms is in accordance with the existing usage in the two sciences. Thus, in zoölogy, in a scientific name consisting of two words the second of which is derived from a proper name, only the first would be capitalized. But a name of similar derivation in botany would have the second element also capitalized.

The names of zoological and botanical classes, orders, families, genera, etc., have been uniformly italicized, in accordance with the present usage of scientific writers.





THE NTURY DICTIONAR SUPPLEMENT



(at French pitch) 435 vibrations per second. In medieval music, the final of the Aclian and hyposeolian modes. (g) In chem., the symbol for argon.—3. Also an abbreviation of ampere and of *A-level(which see).

M. Neale.

pug. ...

pug. ...

pug. ...

pug. ...

pug. ...

pug. ...

through defect of muscular and through defect of muscular and sarily paralysis or incoördination.

Abasic (a-bā'sik), a. [abasia + -ic.] Of, pertaining to, or affected with abasia.

shaded (a-bās't), adv. [< a^3 + bask, v.] Basking; bathed in sunlight or genial warmth. J.

M. Neale.

haded (a-bas'tard), v.t. [OF. abastardir, to bastardir, to bastardir]

AA., AA. [Prop. da, which stands for ana, abastard (a-bas'tard), v.t. [OF. abastardir, to Gr. ava, used in sense of 'throughout,' that is, stigmatize as bastard or degenerate.] To bas'of each one.'] In recipes, an abbreviation tardize; render spurious or corrupt; debase. equivalent, when used after the names of several ingredients, to 'of each one take.'

A, & (A). A Swedish letter representing an

A, a (a). A Swedish letter representing an original long a (ä), now sounded as English long open o in form or a in fall.

a-a (ä'ä), n. [Hawaiian.] A form of cooled lava-stream of which the surface consists of lava-stream of which the surface consists of jagged and irregular blocks. The blocks represent the chilted and solidified crust of a molten mass, and were formed during a pause. When the onward movement was resumed the frozen cakes were piled one upon another. Contrasted with pahoehoe, which refers to smooth or fluted surfaces. Both words are of Hawaiian origin but are occasionally used in English writings on voicanoes. C. E. Dutton, Ann. Rep. Director U. S. Geol. Survey 1884, p. 95. vey 1884, p. 95.

Aschenian (ä-kē'ni-an), a. and n. [G. Aachen (F. Aix-la-Chapelle) + ian.] In stratigraphy, noting formations underlying the Chalk in Belgium: now known as *Bernissartian (which see). . A. G. An abbreviation of Assistant Adjutant-General.

aal, n. See *al1.

Axienian (ä-lē'ni-an), a. and n. [G. Aalen in Würtemberg.] In stratigraphy, noting European subdivision of the Lower Oölite beds of the Jurassic.

the Jurassic.

aalii (ä"ä-lē'ē), n. [Hawaiian; $\langle aa \rangle$ (= Maori aka, etc.), roots, $+ lii \rangle$ (= Maori riki), small.]

In Hawaii, a small tree, Dodonæa viscosa, 12 to 25 feet high. It is one of the commonest trees of that region and is found on all the islands. It also occurs in tropical America, New Zealand, and Australia, and on probably all of the volcanic island groups of Polynesia. It is valued for its hard-grained, dark wood. Called apiri in Tahiti.

aannerödite, n. See *annerödite.

aannerodite, n. See *annerodite.
aback¹, adv. All aback (naut.), said of sails when
they are all flattened against the masts by the wind acting on them from in front. All aback forward (naut.),
said of the square sails on the foremast when the wind
coming from ahead has laid the sails against the mast.

Flat aback (naut.), said of sails when the wind is nearly
at a right angle to them, so that they are neither belilied
forward nor pressed against the mast, but just fluttering
or lifting.

Abacolidæ (a-bak'ō-lä), n. [NL.: origin not obvious.] The typical genus of the family Abacolidæ. Edwards, 1891.

Abacolidæ (ab-a-kol'i-dē), n. pl. [NL., < Abac-

cata, a large species of grouper.

abandond, p.a. A simplified spelling of aban-

abarticular (ab-är-tik'ū-lär), a. [ab- + articular]

Abbreviated numbers. See *number.

M. Arnold. Lit. and Dogma, p. 87.

[ar.] Not affecting the joints; not articular.

Abarticular gout. See *gout 1.

aber *gout 1.

Abbreviation aboreviation of the liver, a bile-duct unconnected with the other portion- of the biliary apparatus.

, 2 (a). In music, the A abasia (a-bā'si-ā), n. [NL., \langle Gr. *à β aoia (cf. next above middle C has $\dot{\alpha}\beta$ aroc, not trodden), \langle $\dot{\alpha}$ - priv. + β aoic, step-catFrench pitch) 435 vibrations per second. In medicthrough defect of muscular action, not necestary

tardize; render spurious or corrupy, Donne, Pseudo-Martyr, p. 226. N. E. D. abaton (ab'a-ton), n.; pl. abata (-tā). [NL., (Gr. άβατον, prop. neut. of άβατος, not to be trodden, (ά-priv. + βατός (βαίνειν, go, walk, step.] A place sacred from common entry:

common entry; a shrine. Same as adytum.

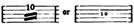
abat-gon(a-ba'son), n. [F., \(abattre, \text{ throw} \) down (see abate), sound.] A device for throw-



Abbe's focimeter, marine nephoscope.

*focimeter, *nephoscope.

measures, and consisting either of a general character in the staff with a figure above, or simply of a figure in the staff denoting the intended number of measures, thus:



(2) Various horizontal dashes, lines, rows of dots, etc., indicating that the force of some preceding character is to continue as far as the dashes, lines, or dots extend, thus:



abciss (ab'sis), n. Same as *complement, 8. abcoulomb (ab'kö-lom'), n. [ab(solute) + coulomb.] A name proposed for the c. g. s. electromagnetic unit of electrical quantity; 10 coulomb. Also abscoulomb. lombs.

lombs. Also abscoulomb.

Abdominal brain, the solar plexus (which see, under plexus).—Abdominal ganglion, the somilunar ganglion (which see, under ganglion).—Abdominal gestation, gestation occurring outside of the uterus.—Abdominal mat, a padded framework, with a stretcher for the feet, used in gymnasiums for exercising the abdominal muscles.—Abdominal phthisis, tuberculosis of the peritoneum, mesenteric glands, or mucous coat of the intestine.—Abdominal pregnancy. Same as *abdominal gestation.—Abdominal stalk, in embryol., the tube of mesoblast which envelops the stem of the allantois in the young human and mammalian embryo.—Abdominal sweetbread, the pancreas. See succetbread.

abdominalian (ab-dom-i-nā'li-an), a. [Abdom-inales + -ian.] Pertaining to or having the characteristics of the Abdominales.

abdominothoracic (ab-dom'i-nō-thō-ras'ik), a.

abdominothoracic (ab-dom'i-nō-thō-ras'ik), a. Relating to both the abdomen and the thorax. abdominovesical (ab-dom'i-nō-ves'i-kal), a. Relating to the abdominal wall and to the urinary bladder.—Abdominovesical pouch, the concave surface of the peritoneum where it is deflected from the anterior abdominal wall to the distended bladder.

Dducens muscle, the external rectus muscle of the eyeball.— Abducens nucleus, the center in the medulla oblongata from which the abducens nerve seems to take its origin.

dulla oblongata from which the abducens nerve seems to take its origin.

abduction, n. 3. In the logical system of C. S. Peirce, reasoning from consequent to antecedent; the acceptance on probation (or more absolutely) of a hypothesis to explain observed facts; the deriving of a suggestion from observation.—Formal abduction, a logical process which has the form of abduction but does not involve any positive assertion, and is not, therefore, like positive abduction, subject to error. Such is the process of adopting a new word and that of forming an abstraction.

Abelicea (ab-e-lis'ē-ā). n. [NL. (Rafinesque, 1836), < Gr. ἀπελίκεα, the name of the Cretan species.] A genus of dicotyledonous plants of the family Ulmaceæ. See Zelkova.

Abe Lincoln bug. See *bug².

aberglaube (ä'ber-glou'be), n. [G. aberglaube.

nate convenient distance from the floor. A single troiley scale.

A single troiley with its load may be weighed, or as many as the weighing-section of track will hold may be weighed together. Another form of scale employs a troiley for weighing materials in transit, with a scale-beam attached directly to the troiley and traveling with it. This is called a troiley-scale.

abaxile, a. 2. In bot., turned away from the axis: said of lateral organs.

Abe Lincoln bug. See *bug2.

aberglaube, "berglou'be), n. [G. aberglaube. for *oberglaube, "berglaube, "over-belief." The first element simulates aber, but.] Belief beyond what is justified by experience and knowledge. See the extract.

Our word 'superstition' had by its derivation this meaning, but it has come to be used in a merely mean a childish and craven religiosity.

Our word 'superstition' had by its derivation this same meaning, but it has come to be used in a merely bad sense, and to mean a childish and craven religiosity. With the German word it is not so; therefore Goethe can say with propriety and truth: 'Aberglaube is the poetry of life.' . . Extra-belief, that which we hope, augur, imagine, is the poetry of life.' . . . M. Arnold, Lit. and Dogma, p. 87.

aberrate, v.i. 2. In optics, to refract, as a lens, abiotic (ab-i-ot'ik), a. in such a manner that rays varying in wavelength or passing through different zones will have different foci. See aberration, 4. Dolland. [Rare.]

[Rare.]

Aberration constant. See constant of aberration, under constant.—Lateral aberration, in the theory of lenses, the product of the spherical aberration and the relative aperture of the lens; the radius of the circle formed by rays passing through the edge of a lens and falling upon a screen placed at the focal point.—Lateral spherical aberration, as me as circle of aberration.—Longitudinal aberration, in the theory of lenses, the distance between the points in which rays passing through the central zone and the edges of the lens, respectively, cut the axis; spherical aberration.—Negative spherical aberration, in optics, spherical aberration in a divergent lens, where the focal length of the outer zone is greater than that of the center of the lens.—Positive spherical aberration, in optics, spherical aberration of a convergent lens, where the focal length of the outer zones is less than that of the center of the lens.

Aberrational ellipse. See *ellipse.

aberrane (abe-rom'e-ter), n. [Irreg. < L. aberrare, aberrate, + Gr. µtrpov, measure.]
An instrument for measuring deviations or errors in delicate experiments or observations. G. E. Davis, Pract. Microscopy, p. 183.

abevacuation, n. 2. Evacuation through an abnormal channel.

abfarad (ab'far'ad), n. $\lceil ab(solute) + farad. \rceil$ A name proposed for the c. g. s. unit of electrical capacity; 1×10^{-9} farads or 1×10^{-15} microfarads.

abhenry (ab'hen'ri), n. [ab(solute) + henry.] A name proposed for the c. g. s. electromagnetic unit of inductance; 1×10^{-9} henrys. [ab(solute) + henry.]

Abhidharma (ab-i-der'mä), n. [Skt. abhidharma, <abhi, near, to, + dharma, order, rule, precept.] The Buddhistic philosophy.

abia (ä'biä), n. A Polish silver coin of the value of one shilling sterling or twenty-five

cents

Abidal (a-bi'dal), n. [abidel, v. i., + -al.]
Abiding-place; abode. N. E. D.
abidi (ä-bi-dē'), n. [E. Ind.] The silver half-

rupee of Mysore.

Abieteæ (ab-i-ē'tē-ē), n. pl. [NL. (Spach, 1842), < L. Abies (Abiet-) + -eæ.] Same as Abietineæ.
abilious (a-bil'yus), a. Indicating or marked
by an absence of bile, as in the stools.

by an absence of bile, as in the stools.

ability, n.—General ability, in polit. scon., "those faculties and that general knowledge and intelligence which are in varying degrees the common property of all the higher grades of industry." Alfred Marshall, Principles of Economics, I. 296.—Gracious ability, the semi-relagian and Arminian teaching that though man by the fall lost the ability to keep the moral law, yet God by his grace restores it to all men.—Natural ability, a term used in New England theology in distinction to moral ability; i. e., man since the fall has all the natural powers needed to obey God's law, but he is morally unable so to do since his will is opposed to righteousness.—Plenary ability, the Pelagian doctrine that responsibility is measured by ability, so that every man has full power at all times to obey God's law.—Specialized ability, "that manual dexterity and that acquaintance with particular materials and processes, which are required for the special purposes of individual trades." Alfred Marshall, Principles of Economics, I. 296.

abilo (8-bō'lō), n. [Tagalog name f] A name in the Philippines of Garuga floribunda, a tree belonging to the Balsameaceæ, with pinnate leaves conwided at the ends of the bennehos

belonging to the Balsameaces, with pinnate leaves crowded at the ends of the branches and with fruit in the form of small, fleshy drupes. It is fragrant and yields a gum which is soluble in water, but only slightly so in alcohol.

abiochemistry (ab'i- $\bar{\phi}$ -kem'is-tri), n. [Gr. \dot{a} priv. + $\beta i o c$, life, + E. chemistry.] Inorganic
chemistry as contrasted with the chemistry of vital processes.

abiogenetical (ab-i-o-je-net'i-kal), a. Same as abigaenetic.

abiology (ab-i-ol'ō-ji), n. [Gr. à- priv. + βίος, life, + -λογία, < λέγειν, speak: cf. biology.] The scientific study of things that are not alive; science except biology. Hackel (trans.), Planktonic Studies, p. 578. abion (ab'i-on), n. [Gr. $\dot{a}\beta\iota\sigma$, neut. of $\dot{a}\beta\iota\sigma$, taken in the literal sense 'without (physical)

taken in the literal sense 'without (physical) life,' (\dot{a} - priv. + $\beta i \sigma_{c}$, life.] Lifeless things considered collectively, as distinguished from living things. Haeckel (trans.), Planktonic Studies, p. 578. abiophysiology (ab'i- $\bar{\phi}$ -fiz-i-ol' $\bar{\phi}$ -ji), n. [Gr. $\dot{a}\beta i \sigma_{c}$, without life, + $\dot{\phi} v a c \lambda o \gamma (a$, physiology.] The study of the inorganic or purely physical and chemical phenomena in living organisms as distinguished from the biological phenomena proper

proper. abiosis (ab-i-ō'sis), n. [Gr. \dot{a} - priv. + $\beta i \omega \sigma \iota \varsigma$, way of life.] Absence of vital force.

abiotic (ab-i-ot'ik), a. [Gr. ά-priv. + βωτικός, pertaining to life.] Noting those sciences which deal with inorganic nature, as contrasted with the biological sciences. Hueckel (trans.), Wonders of Life, p. 27. [Rare.] abiotrophy (ab-i-ot'rō-fi), n. [Gr. ά-priv. + βios , life, + $-\tau po\phi ia$, $< \tau p \epsilon \phi \epsilon v$, nourish.] Degeneration due to congenital deficiency of vital force.

force.

Abispa (a-bis'pä), n. [NL. (Mitchell, 1838), Sp. abispa, now usually avispa, < L. vespa, a wasp!] A peculiar genus of Australian solitary wasps comprising several species. A single female constructs a nest with a funnel-shaped entrance, so large that it appears to be the nest of a colony of social wasps.

abjoint (ab-joint'), v. t. [ab- + joint.] In mycol., to separate by a septum, as in the case of the spores of some fungi. Plow, Brit. Ured. and Ustil. Gloss., p. 305.

abjunction (ab-jungk shon), n. [NL. *abjunctio(n-), < L. abjungere, disjoin, separate: see abjunctive.] In mycol., the separation of spores

The separation of spores by means of a septum. ablastic (a-blas'tik), a. Same as ablastous. ablastozoa (a-blas'tō-zō'ā), n. pl. [NL., \langle Gr. \dot{a} -priv. + $\beta\lambda a\sigma r \delta \varsigma$, germ, + $\zeta \bar{\wp} o \nu$, animal.] Animals without germ-layers; Protozoa. Eimer, Organic Evolution, p. 70.

ablation, n. 4. (b) The washing away by rains of the lighter particles yielded by the decay and weather-waste of rocky ledges, whereby the heavier and more resistant minerals are left behind in a state of residual concentration, sometimes affording a body of ore.

able, α .—To spell able, to be able; to have all the ability or strength needed (for some particular purpose).

ablepharia (ab-le-fā'ri-ā), n. [NL., ⟨Gr. ἀβλέ-φαρος, without eyelids: see ablepharon.] Same as *ablepharon.

ablepharon (a-blef'a-ron), n. [Gr. $\dot{a}\beta\lambda\dot{\epsilon}\phi a\rho\sigma_{\gamma}$, without eyelids, $\langle \dot{a}$ - priv. + $\beta\lambda\dot{\epsilon}\phi a\rho\sigma_{\gamma}$, eyelid.] Absence, through disease or congenital defect,

of one or both eyelids.

abmho (ab'mō), n. [ab(solute) + mho.] A
name proposed for the c. g. s. electromagnetic unit of conductance, admittance, or susceptance; 1×10^9 mhos.

abmodality (ab-mo-dal'i-ti), n. ["abmodal +

-ity.] Exception to or deviation from a statistical normal or mode when this is considered, for statistical purposes, as a fixed standard which living beings or their measurable qualities may approach or from which they may recede. See mode¹, 4.

cede. See mode¹, 4.

Statistical Biology seeks to determine the exact status of species as regards variation, expressed in modes, abmodalities and abnormalities; the direction, rate, and causes of variation in species; the suppression of old modes, the rise of new ones, and the shifting of modes; and the inheritance and permanency of these characters and changes. With such data, accurately determined for a number of species for a period of years, it will be possible to test the validity and broad application of some of the fundamental theories upon which modern Biology is built.

Biometrika*, April, 1903, p. 318.

Democrated (ab. man*(tal).

abmortal (ab-mor'tal), a. [ab- + mortal.] In med., situated or directed away from the injured or dead part: applied to the course of the electrical current in an injured muscle.

abneural (ab-nu ral), a. [ab- + neural.] Relating to or situated on the side of the body

farthest from the neural axis.

abnormative (ab-nôr'ma-tiv), a. [ab- + nor-

abnormative (ab-nôr'ma-tiv), a. [ab-+ normative.] Not normative. Applied by Cross, Iddings, Pirsson, and Washington (1902), in their quantitative classification of igneous rocks, to the minerals other than those which go to make up the norm or standard mineral composition by which a rock is classified. When the actual mineral composition of a rock differs from its theoretical or standard composition, the rock is said to have an abnormative mode. See quantitative classification of igneous rocks, under *rock.*

abnumerable (ab-nū'me-ra-bl), a. Not numerable; either having (as a collection) or being a multitude greater than that of all the integer numbers taken collectively. The multitude of all the quantities whose values (like that of π) can be expressed to indefinitely close approximation by means of indefinitely extended decimals is the first abnumerable multitude. There is a second, third, etc. (up to any finite ordinal number), abnumerable multitude, any more than there is no highest abnumerable multitude, any more than there is a highest enumerable multitude. There is no multitude greater than all abnumerable multitudes since beyond them the individual members of the collection lose their separate identity and merge into one another in true continuity. The multitude of all the numbers considered in the calculus and theory of functions is the first abnumerable multitude, and of higher multitudes mathematicians as yet know little more than that they are logically and mathematically possible. Also abnumeral. (ab - nū'me-ral), a. [ab-+ nu-meral] Same as *abnumerable.

abnumeral (ab - nū 'me - ral), a. meral.] Same as *abnumerable. [ab- + nu-

aboard 1, adv.—To haul the starboard tacks aboard (naut.), to bring the weather clues of the courses (lower square sails) inboard and down to the tack-irons in the deck by means of the tack-tackles.—To have the starboard (or port) tacks aboard (naut.), to be on the starboard (or port) tack, as the tacks are always boarded on the weather side of the ship. abobra (ä-bō'orā), n. [Pg. abobora, abobra, gourd.] A greenhouse tendril-climbing herb, a member of the family Cucurbitaceæ, from Brazil, grown both for its much-divided foliage and its searlet, gourd-like fruit.

and its scarlet, gourd-like fruit.

aboideau (a-boi-dō'), v. t. [aboideau, n.] To improve (a tidal river or stream) and prevent the tidal overflow of its marshes and tidal meadows by placing tide-gates at its mouth.

At first sight it might seem wise to aboideau all rivers at their mouths. Bot. Gazette, Sept., 1903, p. 180.

aboma, n. 2. [cap.] A genus of gobies found in Mexico and Japan, having more than 6 dorsal spines.



Darter Goby (Aboma Etheostoma). (From Bull. 47 U. S. Nat. Museum.)

abondance (a-bon-däns'), n. [F.: see abundance.] In solo whist, the naming of the trump suit and winning of 9 tricks without the assis-In solo whist, the naming of the trump tance of a partner.—Abondance déclarée. Same as **abondance in trumps.—Abondance in trumps, in solo whiet, the winning of 9 tricks with the trump that is turned up, without the sasistance of a partner.

Aboral pore, an opening or pore at the end of the body farthest from the mouth-opening, as in a few Anthozoa. aboriginalism (ab-ō-rij'i-nal-izm), n. The rec-

ognition of the rights of aboriginal races. abort, v. t. To render abortive; check or arrest the development of: as, to abort a fever. abortient, a. and n. In pathol., same as abortifacient.

bortion, n.— Missed abortion, expulsion of a fetus sometime after its death. abortion. n.-

abortive, a. 8. Preventing full development; arresting the course of, as of a disease: as, abortive treatment.

Aboth (8'bōt), n. pl. [Heb., pl. of 'āb, father.]
'The Fathers,' otherwise Pirke aboth, 'Chapters of the Fathers': a treatise in the Mishnah consisting of maxims and aphorisms of ancient 'fathers' or rabbis: analogous to the Book of Proverbs in the Old Testament.

aboulic, a. See *abulic.
abrachiocephalus (a-brā'ki-ō-sef'a-lus), n.; pl.
abrachiocephali (-lī). [NL., < Gr. ά- priv. +
βραχίων (L. brachium), arm, + κεφαλή, head.]
A monster without head and arms.

abrader (ab-rā'der), n. [abrade, v. t., +-er1.] Any tool or machine used for abrading; a file, emery-wheel, grinding-, sandpapering-, or de-polishing-machine.

Abrahami, a. See Abram.
Abrahamitic (ā'bra-ham-it'ik), a. Same as Abrahamitical

Abramt, Abrahamt, a. Corrupted forms of

abranchial (a-brang'ki-al), a. [Gr. ά- priv. + βράγχια, gills, + -al.] Having no branchiæ or gills, as certain worms, for example the earthworm, in which respiration is carried on by the moist skin.

hranchialism (a-brang'ki-al-izm), n. [abran-chial + -ism.] The condition of being abranchial + -ism.] chial, or without gills, as the Firoloida among

mollusks. Encyc. Brit., XXX. 796.

Abranchiata, n. pl. 2. A group of macrurous crustaceans having the gills rudimentary or absent. It includes the Mysidæ, or opossumshrimps

abrastol (a-bras'tol), n. [Gr. ά-priv. + βραστ, ⟨βράζειν, boil, ferment, + -ol.] A technical name given to the calcium salt of β-naphtholsulphonic acid, $(C_{10}H_6(OH)SO_3)_2Ca+3H_2O$. It is used as a preservative in wines.

abrest, prep. phr. A simplified spelling of

abrotine (ab'rō-tin), n. [abrot(anum) + -ine².] A crystalline alkaloid, $C_{21}H_{22}ON_2$, found in Artemisia Abrotanum. Its solutions give a blue

absampere (abs'am-par'), n. [abs(olute) + ampere.] A name proposed for the c.g. s. electromagnetic unit of current; 10. amperes. absarokite (ab-sä'rō-kīt), n. [Absarok(a) (see def.) + -ite².] In petrog., a name applied by

Iddings (1895) to a group of igneous rocks oc- absorption-tube curring in the Absaroka mountains in the eastcurring in the Adsaroks mountains in the east-ern part of the Yellowstone Park. Absarokite is usually porphyritic in texture, containing phenocrysts of augite and olivin in a ground-mass of orthoclase, leucite, augite, olivin, and magnetite. The ground-mass may be glassy and the texture aphanitic or phanerocrystalline. It occurs in dikes and flows. Absarokite is the basaltic end of a series containing, in addition, shoshonite and banakits.

Danasite.

abscess, n.—Acute abscess, an abscess occurring as the result of acute inflammation.—Cold abscess, a collection of pus not associated with the ordinary signs of inflammation. It is usually located at some distance from the original point of suppuration, the matter burrowing along lines of fascia or within the sheath of a muscle: in this case also called pravitation abscess.—Dubois's abscesses, multiple areas of necrosis occurring in the thymus gland in young children with congenital sphilis.—Gravitation abscess, a form of cold *abscess.—Sterile abscess, an abscess containing no microorganisms.—Stitch abscess, formation of pus after closure of a wound at the points where the sutures are inserted. abscess, n.

absciss (ab-sis'), n. [See abscissa.] A part cut off; specifically, in conic sections, an abscissa (which see). Also abscisse.

abscission, n. 7. In bot., the separation of spores from a sporophore on the disappearance of the connecting layer.

absciss-layer (ab-sis'la'er), n. In bot., a layer or plane along which separation takes place, as in the fall of leaves.

abscoulomb (abs'kö-lom'), n. Same as *ab-

3. An escaped or runaway conabsentee, n. vict: a euphemistic term formerly in use in Australia.

absohm (abs'ōm), n. [abs(olute) + ohm.] A name proposed for the c. g. s. electromagnetic unit of resistance: 1×10^{-9} ohms.

netic unit of resistance: 1 × 10⁻⁹ ohms. Absolute differential limen or absolute threshold of difference, in psychol., the just noticeable difference of sensory stimulus stated absolutely, that is, without regard to the original stimulus of which it is an increment. — Absolute forest land, land fit only for forest growth. Also called absolute forest soil.—Absolute form factor. See *form factor.—Absolute geometry, scale. See *geometry, *scale. Absolute sensibility or absolute sensitivity, in psychol., Fechner's term for sensitivity as measured by the inverse magnitude of the stimuli applied to the sensocopran.

absolv, v. t. A simplified spelling of absolve.

absorbd, p. a. A simplified spelling of absorbed. Absorbent screen, in optics, a screen which absorbs certain or all of the rays of light falling upon it. Thus ruby glass is an absorbent screen cutting off all but the red rays of the visible spectrum.

absorber, n. 2. In a hot-air engine, a part which absorbs heat from the air at one time and gives it out at another; a regenerator.

absorptiometric (ab-sôrp'shi-ō-met'rik), a. [L. absorptio(n), absorption, + Gr. μέτρον, measure.] Measuring or determining the amount of absorption, as of a gas in a given quantity of a liquid or of radiation in an opaque medium.

- Absorptiometric equilibrium, the relation between the amounts of two or more gases absorbed by the same portion of a liquid with which they are simultaneously in contact.

absorption, n. 1. (e) In elect., the property of the solid dielectric of an electrostatic condenser by which it takes up a part of the charge and retains a part of the absorbed charge, after discharge, as residual charge.

2. In Herbart's pedagogic system, the gradual process of the apprehension of the manifold: a translation of the German vertiefung. Othera translation of the German vertiefung. Otherwise called concentration and self-estrangement.

— Acoustic absorption, the absorption of sound-waves either by a body which does not perfectly transmit or reflect such waves or by a body whose frequency of vibration corresponds to that of the waves, so that it is thrown into sympathetic oscillation by resonance. — Atmospheric absorption, the loss of sunlight in passing through the atmosphere. It increases in proportion to the distance of the sun from the senith, and also in proportion to the shortness of waves of heat or light. Besides the general absorption there is also a so-called "selective absorption" (see selective), in accordance with which each component of the earth's atmosphere absorbs with special intensity certain specific wave-lengths, thus causing dark lines in the optical spectrum, inert hands in the photographic spectrum. Absorption is to be distinguished from selective reflection.— Coefficient of absorption, a physical constant used to express the specific absorbing power of a substance. Specifically— (a) In the absorption of gases, the volume of a gas which one volume of a liquid will dissolve. (b) In optics, the constant K in the equation

Ao

volume of a liquid win unsource $\frac{A_0}{A_1} = \frac{1}{e^{-2\pi K}}$, where A_0 is the stant K in the equation $\frac{A_0}{A_1} = \frac{1}{e^{-2\pi K}}$.

amplitude of an incident ray, A₁ its amplitude after penetrating to a depth of one wave-length in the absorbing medium, and e the base of natural logarithms.—Distinctive absorption, in med., a process by which a slough is separated from healthy tissue, a thin layer of the latter in immediate contact with the necrosed portion being absorbed.—Fluorescence absorption, the increased absorption of light by a substance which occurs when the latter is rendered fluorescent.—Belective absorption. See selective.

(ab-sôrp'shonsorption of gases, consisting of a vertical tube filled with glass beads which are wet with the absorbing material. It has been modified by various experimenters.

abstat. [ab(solute) + (electro)stat-(ic).] In elect., a prefix which it has been proposed to place before the practical electrical units such as the ohm, ampere, volt, and coulomb, to designate the corresponding absolute electrostatic units.

abstatampere (ab'stat-am-par"), n. [See abstat-.] A name proposed for the absolute electrostatic unit of current; about 3.3×10^{-10}

abstateonlomb (ab'stat-kö-lom").

n. [See abstat-.] A name proposed for the absolute electrostatic unit of electrical quantity; about 3.3 × 10⁻¹⁰ coulombs. abstatfarad (ab'stat-far'ad), n. [See abstat-.] A name proposed for the electrostatic absolute unit of electrical capacity; about 1.1×10^{-6} microfarads.

abstathenry (ab'stat-hen'ri), n. [See abstat-.] A name proposed for the absolute electrostatic unit of inductance; about 9×10¹¹ henrys. abstatohm (ab'stat-om), n. [See abstat.] A name proposed for the absolute electrostatic unit of resistance; about 9 × 10¹¹ ohms.

Abstemii (ab-stē'mi-ī), n. pl. A sect of the early church, so called from their use of water instead of wine in the eucharist. They also abstained from all use of wine, and from meat and marriage, regarding these things as intrinsically impure. They were followers of

bstinence, n. 4. The act of abstaining from the use of, or from the doing of, something; specifically, in economics, voluntary abstention from the consumption of anything which one has the power of consuming or using, with the purpose of increasing one's resources or ac-cumulating wealth for future enjoyment.

abstract, v. i.— To abstract from. (b) To separate itself from; occupy a plane or position apart; pursue an independent course.

an independent course.
Physics, which is wholly the science of the senses, abstracts from religion, from morality, and from every kind of knowledge as far as the latter is independent of sense. I say "abstracts from"; I do not say "rejects," or "repudiates," or "denies." Physical science merely attends to its own business.

W. S. Lilly, On Right and Wrong, p. 262.

abstract-concrete (ab "strakt-kon' krēt), a.
Relating both to the abstract and to the concrete; in the Spencerian philosophy, noting those sciences which study abstractly concrete phenomena (physics and chemistry).

Molar physics, molecular physics, and chemistry, dealing with abstract laws of motion and force that are gained from experience of concrete phenomena, and appealing at every step to the concrete processes of observation and experiment, may be distinguished as abstract-concrete sciences.

J. Fiste, Cosmic Philos., II. 44.

abstraction, n. 6. In geol., the tapping of the head waters of one stream by another the erosive action of which is more rapid.

betractional demonstration, a demonstration which treats characters, relations, operations, and the like as themselves objects having characters, relations, opera-

abub (ä-böb'), n. [Syr. *abūb†] An ancient Syrian musical instrument, probably a Pan's-

abulic (a-bö'lik), a. Relating to or suffering from abulia. Also aboulic.

abundance, n. 3. In card-playing, same as *abondance

aburahaye (ä'bö-rä-hä'ye), n. [Jap., < abura, oil, fat, + haye, said to mean 'minnow.'] A Japanese name of a fish of the family Cyprinidæ, Sarcocheilichthys variegatus, found in the wa-

ters of Japan. Also known as higa:
abusefulness (ab-ūs'fùl-nes), n. Capability of being abused or put to a wrong use.

Unto this Last, p. 124. **Abutilon**, n. 2. [l. c.] A plant of this genus, generally of a cultivated species. See velvetleaf, 3, and American jute, under jute².

abutment, n. 2. (c) In a rotary engine, a part provided to cut off the steam pressure from the back or exhaust side of the piston.

abuttal, n. 2. The fact of abutting or of lying

abuttal, n. 2. The fact of abutting or of lying contiguous: as, the abuttal of the land on a highway.

abuv, adv. and prep. A simplified spelling of

abuze, v. t. A simplified spelling of abuse.

Abysmal clay. Same as *abyssal clay. abyssal, a. 3. In petrol., applied by Brögger and

abuze, v. t. A simplified spelling of abuse.

Abysmal clay. Same as *abyssal clay.

abyssal, a. 3. In petrol., applied by Brögger and others to deep-seated or plutonic igneous rocks.

— Abyssal benthos. See *benthos and *hypobenthos.— Abyssal clay, fine clay now being deposited on the seafloor in depths exceeding 600-700 fathoms. This material is generally red, purple, chocolate, or brown in color, is made up of impalpable particles free from organic remains, and is regarded by Murray as constituted of fine volcanic materials which have been decomposed in seawater and have accumulated with excessive slowness during immense periods of time. Intermingled with the clay are particles of metallic iron and concretions of manganess oxid. Some geologists regard it as doubtful whether rocks representing such profound oceanic deposits are present in existing continental masses; others find parallel conditions suggested in some of the barren and highly colored Silurian and Cambrian slates.

Abyssinian church, gold. See *church, *gold.—Abyssinian church, gold. See *church, *gold.—Abyssinian languages, the languages of Abyssinia, some Semitic and others Hamitic. The Semitic class includes:

(a) Amharic, derived from the ancient Sabean or Himyaritic, introduced from Yemen in southern Arabia, and closely related to Geëz or Ethlopic. (See next.) It has been the official language of Abyssinia since about the year 1800 (when the capital of Ethlopia was removed to Shoa), gradually superseding the ancient Geëz, but adopting its syllable alphabet (with some modifications and many additions) and a large number of its words. It is the popular language; its literature is comparatively modern and alight. (b) Ethlopic, called by its users the Geez usually written Geëz, the language of the Adysain, 'emigrants' from southern Arabia who had settled in Tigre (now a province of Abyssinia) about 385 a. D. Superseded by Amharic as the official language of the country about the year 1300, it has continued to be the liturgic language of the Abys

A. C. (3) In elect., an abbreviation for alternating current. (4) An abbreviation of Analytical Chemist

aco, ac1, ac2, ac3, etc. Points of flexure in the heating curves of iron and steel. The point ac1 on heating is the same as ar1 on cooling,

acacanthrax (ak-a-kan'thraks), n. [NL., ζ Gr. ἀκακος, not bad (ά- priv. + κακός, bad), + ἀνθραξ, carbuncle: see anthrax.] Non-specific anthrax; carbuncle.

acacetin (a-kā'se-tin), n. [acacia + -et- + in^2 .] A compound, $C_{16}H_{12}O_5$, found in the leaves of Robinia Pseudacacia. It is probably the monomethyl ether of *apigenin (which see).

acacia, n.—Parasol acacia, a variety of the common locust or false acacia. It forms a compact spherical head and, though not producing flowers, is much cultivated in central and northern Europe for decoration and shade.

academic, n. 3. A member of an academy or learned society; an academist or academician. Swinburne, Essays and Studies, p. 372. N. E. D. academicalism (ak'a-dem'i-kal-izm), n. [academical, a., +-ism.] Adherence to academic rules or methods; conventionalism; formalism. Athenæum (quoted in N. and Q., 8th ser., IV. 363).

academicism, n. 2. A tendency toward Platonic opinious.

academize (a-kad'em-īz), v. t.; pret. and pp. academized, ppr. academizing. [academy + -ize.] To form into an academy, or subject to the rules of an academy. Daily Telegraph, May 4, 1868. N. E. D.

Academy of music. (a) A local musical society or corporation, founded either for the support of musical education or for research connected with musical science. cation or for research connected with musical science.
(b) An operatic company or choral club organized for the
study and rendering of musical works. (c) A building
devoted to the rendering of musical works. The most
famous of the many Italian academies is that of Bologna,
founded in 1482. The French Academy, which is a royal
subvention for the performance of opera, really dates
from the privilege granted in 1669. The earlier operas of
Handel were largely written for an operatic association
called the Royal Academy.

Acadian. I. a.—Acadian hairstreak. See *hairstreak.—Acadian owl. See *cord.

II. n. 2. In geol., the middle division or stage of the Cambrian system of eastern North America, named from its typical development in Nova Scotia and New Brunswick, but extending into Newfoundland, Cape Breton, and eastern Massachusetts, and perhaps farther south in the Appalachian region. Pale-ontologically it is known as the Paradoxides horizon, contrasting with the Olenellus horizon, or Georgian stage, below, and with the Dicellocephalus horizon, or Saratogian stage, above. Its rocks are chiefly slates and shales.

Acajou oil, a fat oil obtained from the acajou or cashew nut, Anacardium occidentals, used for food and in cooking in Brazil and the West Indies.

Acalephæ, n. pl. 2. A class of Cælenterata, including medusæ of considerable size, with gastral filaments, endodermal gonads, and lobed umbrella-edge, and without true velum: contrasted with Hydromedusæ and Actinozoa. Same as Acraspeda

same as Acraspeaa.

acalyptrate (ak-a-lip'trāt), a. [a-18 + calyptrate.] In bot., not furnished with a calyptra; in entom., of or belonging to the Acalyptratæ.

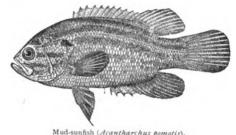
acamp (a-kamp'), adv. [a³ + camp.] To the camp; campward. J. Barlow, Columbiad, vi.

a candelliere. 2. Said of a style of decoration frequently found on the majolica of Urbino, Castel Durante, and other manufactures, consisting of animal grotesques arranged symmetrically around the border or on either side of a central design.

acanth (a-kanth'), n. [acanthus.] Same as acanthus, 2.

acanthad (a-kan'thad), n. [NL., (Acanthus + -ad.] A plant of the Acanthus family.

Acantharchus (ak-an-tharkus), n. [NL., (Gr. $\dot{a}\kappa a\nu\theta a$, a thorn, + (1) $\dot{a}\rho\chi\dot{o}\varsigma$, rectum.]



(From Bull, 47 U. S. Nat. Museum.

genus of sunfishes of the family Centrarchide, including the mud-sunfish, A. pomotis.

Acantharia, n. pl. 2. One of the four sub-orders into which Haeckel divides the Radiohavia: characterized by having the capsule-membrane uniformly perforated and the skeleton composed of acanthine spicules.

Acanthephyra (ak-an-thef'i-rä), n. [NL.] The typical genus of the family Acanthephyride. Milne-Edwards, 1881.

Acanthephyridæ (a-kan-the-fi'ri-dē), [NL., \ \(\frac{Acanthephyra + id\alpha.}{\) A family of macrurous podophthalmous crustaceans mainly inhabiting the deep sea. They have the body laterally compressed, the first antennæ with 2 long flagella, and the first two pairs of trunk-legs slender and subequal. The typical genus is Acanthephyra. Also Mierzińcke.

Acantherpostes (a-kan-ther-pes'tez), n. [Gr. \dot{a} κανθα, spine, $+\dot{\epsilon}\rho\pi\eta\sigma\tau\dot{\eta}\epsilon$, a reptile.] A genus of Carboniferous myriapods, some of the members of which attained a length of a foot. They were armed with branching spines and appear to have had lateral branchial pores; hence they are regarded by Scudder as amphibious

acanthin, acanthine (a-kan'thin), n. [Gr. $\dot{a}\kappa a\nu\theta a$, thorn, + $-in^2$, $-ine^2$.] An organic substance, allied to horn or chitin, which enters into the composition of the spicules in the non-silicious Radiolaria.

acanthine, a. 3. In ichth., spine-like; bearing spines

acanthinic (ak-an-thin'ik), a. Composed of

acanthimic (ak-an-thin ik), a. Composed of or containing *acanthin (which see).
acanthinous (a-kan'thi-nus), a. [acanthin + -ous.] Consisting of or resembling acanthin.
acanthion (a-kan'thi-on), n. [NL., < Gr. ἀκάν-θου, dim. of ἀκανθα, a spine.] In craniom., the extreme point of the nasal spine. You Török.

Acanthisting (ak an thin'thin), you Torök. Acanthistius (ak-an-this'ti-us), n. [NL., ζ Gr. ἀκανθα, spine, + lστίον, dim. of ἰστόν, a web.] A genus of serranoid fishes allied to Plectropoma: found in South America and elsewhere.

Acanthobatis (ak-au-thob'ā-tis), n. [Gr. ἀκαν- θa , spine, $+ \beta a \tau i c$, skate, roach.] A genus of fossil rays or skates from the Miocene Tertiary of France and Würtemberg.

Acanthoceras (ak-an-thos'e-ras), n. [Gr. $\dot{\alpha}\kappa av-\theta a$, spine, $+\kappa \dot{\epsilon} \rho a c$, horn.] The typical genus of the family $\dot{\alpha}$ canthoceratidæ.

Acanthoceratide (ak-an-those-rat'i-dē), n. pl. [NL., < Acanthoceras + -ide.] A family of tetrabranchiate cephalopods or ammonites which have evolute or loosely coiled whorls bearing more or less continuous transverse ribs.

The species are from the Cretaceous system.

Acanthochetodon (a-kan-thō-kē'tō-don), n.

[NL., Gr. ākanta, spine, + xairn, hair (bristle), + odoic, tooth (see Chetodon).] A genus of chetodontids, the butterfly-fishes of the East

Acanthocladia (a-kan-thō-klā'di-ā), n. [Gr. ἀκανθα, spine, + κλάδος, a branch.] The typical genus of the family Acanthocladidæ.

Acanthocladiida (a-kan'thō-kla-dī'i-dē), n.pl. A family of cryptostomatous Bryozoa, represented by genera which occur in geologic formations from the Silurian to the Permian.

Acanthocottus (a-kan-tho-kot'us), n. [NL.,

Acanthocottis (a-kan-tho-kot'us). n. [NL., Gr. ἀκανθα, spine, + κόττος, a river-fish (the bullhead f): see Cottus.] A genus of sea-sculpins. Earlier called Myorocephalus.

Acanthocybium (a-kan-thō-si'bi-um), n. [NL., Gr. ἀκανθα, spine, + κύμον, salted flesh of a sort of tunny.] A genus of mackerels, family Scombridæ, of the tropics, remarkable for the elongate form and serrate teeth. The peto or wahoo of the West Indies, A. petus or A. so-landri, belongs to this genus.

landri, belongs to this genus.

acanthocyst (a-kan'thō-sist), n. [Gr. ἀκανθα, thorn, + κύστις, bladder.] In the Nemertini, a sac or an enormous cell containing one or

more calcareous stylets.

Acanthodei, n. pl. 2. In Agassiz's classification, an order of selachians or sharks having the endoskeleton and parts of the skull calci-fied; pterygoquadrate articulated with the cranium and sometimes bearing teeth; fins, except the caudal, with stout anterior spines; and shagreen scales quadrate and compactly arranged. The members of this order are all fossil and belong wholly to the Paleozoic formations. Two families are distinguished, the Acanthodidæ and the Diplacanthidæ.

acanthodian (ak-an-thō'ài-an), a. and n. [Acan-thodes.] I. a. Belonging to or having the characters of the genus Acanthodes or the order Acanthodei.

II. n. A fossil fish of the genus Acanthodes. Acantholabrus (a kan tho la brus), n. [NL., ⟨ Gr. ἀκανθα, spine, + L. lubrum, lip (see Labrus).] A genus of labroid fishes of the Labrus).] A genus of labroid usnes of the north of Europe, having an increased number of anal spines. The species is A. croletus.

[Gr. ἀκανθα,

acanthology (ak-an-thol'ō-ji), n. [Gr. ἀκανθα, thorn, spine, + -λογία, ζ λέγειν, speak.] The thorn, spine, $+ -\lambda \alpha \gamma ia$, $\langle \lambda \dot{\epsilon} \gamma \epsilon \iota \nu$, speak.] The study of the structure and functions of spines, especially of those of sea-urchins.

canthomeridæ (a-kan"thō-mer'i-dē), n. pl. [NL., \ Acanthomera, a genus (\ Gr. ἀκανθα, a thorn, spine, $+\mu \epsilon \rho \rho c$, a part (or $\mu \eta \rho \delta c$, thigh?)), +-idx.] A family of dipterous insects confined to America and containing only two genera, Acanthomera and Rhaphiorhynchus. They are allied to the gaddles of the family Tabanidæ. The family contains the largest Diptera known, some of them reaching a length of two luches.

acanthometran (a-kan-thō-met'ran), a. and n. I. a. Pertaining or relating to the genus Acan-

n. A member of the genus Acanthometra. acanthometridan (a-kan-thō-met'ri-dan), a. and n. I. a. Pertaining to or resembling the Acanthometridæ.

II. n. A member of the family Acantho-

Acanthonida (ak-an-thou'i-da), n. pl. [NL., $\langle Gr. \dot{a}\kappa av\theta a$, thorn, $+ \cdot on - + \cdot ida$.] An order or a family of acantharian radiolarians having 20 spines arranged according to Müller's law (4 equatorial, 8 tropical, and 8 polar). As an order it includes the families Astrolonchidæ, Quadrilonchidæ, and Amphilonchidæ.

Acanthonidæ (ak-an-thon'i-dē), n. pl. Same as *Acanthonida.

acanthophore (a-kan'thō-fōr), n. [Gr. ἀκανθα, thorn, + -φορος, < φέρειν, bear.] A somewhat conical granular mass which bears the median stylet in the bottom of the eversible portion of the proboscis in certain Metanemertini.
acanthophract (a-kan'thō-frakt), n. One of

the Acanthophractæ.

acanthopodous (ak-an-thop'ō-dus), a. [Gr. ἀκανθα, spine, + ποίς (ποδ-), foot, + -ous.] 1. In bot., bearing spines on the petiole or peduncle.—2. Same as acanthopod.

acanthopore (a-kan'thō-pōr), n. [Gr. ἀκανθα, spine, + πόρος, pore.] In the extinct tabulate corals of the family Chætitidæ, one of a set of pores which emerge on the surface in small , a. [Gr. -ous.]

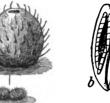
pores which emerge on the surface in small acarine (ak'a-rin), a. and n. tubercles. Contrasted with *autopore and <acarus, acarus.] I. a. Lik *mesopore.

acanthopous (a-kan'thō-pus), a. [Gr. åκανθα, a spine, + å ψ ($\omega\pi$ -), eye.] Having spines on or about the eye.

Acanthosoma (a-kan-thō-sō'mặ), n. [NL. (Curtis, 1824), < Gr. ἀκανθα, spine, + σῶμα, body.] An interesting genus of pentatomid bugs common to the old and new worlds. A. griseum of Europe is remarkable for the solicitude shown by the female for her young. She not only protects the eggs, but cares for the young for a considerable period after hatching.

acanthosphenote (a-kan-thō-sfē'nōt), a. άκανθα, spine, + *σφηνωτός, ζ σφηνοίν, ν., ζ σφήν, a wedge.] A term applied by Mackintosh to the spines of Echinoidea, which are shown by transverse section to consist of a number of

bristles of perithecium, < Gr. άκανθa, thorn, + στίγμα, mark, dot, spot.] Α genus of pyrenomycetous fungi ing



deauthastion havsmall
b, two perithecia (below), one enlarged (above):
small
b, two spore-cases cut longitudinally to show the
fusiform septate spores.

superficial perithecia beset with short, stiff bristles. The spores are mostly fusiform and hyaline with several septs. The species are mostly saprophytic. A. parasiticum is said to cause a disease of the silver fir, Abies Picea, in Europe.

Acanthostracion (a-kan-thō-strā'si-on), n. [NL., ζ Gr. ἀκανθα, spine, + ὁστράκιον, dim. of ὁστρακον, a shell.] A generic name applied to the three-angled box-fishes with horn-like

spines above the eyes.

spines above the eyes.

Acanthotelson (a-kan-thō-tel'son), n. [Gr. ἀκανθα, spine, + τέλσον, limit: see telson.] A genus of extinct amphipod Crustacea from the Carboniferous rocks.

acanthozoŏid (a-kan-thō-zō'oid), n. [Gr. ἀκανθα, thorn, + zoöid.] The narrow hookbearing posterior end of the proscolex of certain Cestoidea, as Dipylidium caninum. See *custozoöid. *custozoiid.

a cappella. 2. In music, noting a species of time which employs four minims or half-notes in each measure.

acapulco (ä-kä-pul'kō), n. [Acapulco, a Mexican scaport.] A name in the Philippine Islands and Guam of Herpetica alata, an introduced plant of Mexican origin, the leaves of which are used as a remedy for ringworm and other parasitic skin-diseases. See ringworm-shrub.

acara (ä kä-rä'), n. [Tupi acará.] A name applied to different cichloid fishes found in South America. From the common name the genus Acara was named.

acari (ak'a-ri), n. pl. [Plural of acarus.] The order Acarina as a whole, or any number of species or individuals of the order. See Acarus and Acarina.

species or individuals of the order. See Acarus and Acarina.

acariasis, n.—Poultry acariasis, any infection of poultry by mites (Acarina), as the cutaneous infection with the chicken-tick (Dermanysaus gallinæ) or the chicken-mites (Sarcoptes mutans, S. Lævis gallinæ), the subcutaneous infection with the cystic fowl-mite (Laminostoptes cysticola), or the infection of the air passages with the internal chicken-mite (Cytodires nudus).—Psoroptic acariasis, a highly contagious cutaneous infection of certain domesticated animals with mites (Acarina) belonging to the genus Psoroptes. The best known forms are the common sheep-scab, and cattle-mange or cattle-scab, sometimes called Texas tich. Similar infections occur on the horse, ass, nule, goat, and rabbit.—Sarcoptic acariasis, a highly contagious cutaneous infection with mites (Acarina) belonging to the genus Sarcoptes. The most common form is the itch or scabies of man, caused by the itch-mite (Sarcoptes scabies), which burrows irregular galleries in the epidernis. Norvegian tich is a specially severe variety of the disease. Varieties of sarcoptic acariasis or sarcoptic mange also affect the horse, cattle, goat, camel, llama, hog, rabbit, ferret, dog, wolf, llon, wombat cat, pigeon, and poultry.

acariform (a-kar'i-fôrm), a. [NL., (Gr. ākapt, acarus, mite, + L. forma, form.] Same as acaroid.

acarus, mate, 1 I a Like an acariar of

(acarus, acarus.] I. a. Like an acarian; of or relating to the order Acarina.

TI. n. A member of the order Acarina or of the genus Acarus.-Acarine diseases, diseases such as mange or the itch.

acarocecidium (ak"a-rō-sē-sid'i-um), n. caroccidia (-ä). A plant-gall made by mites: practically the same as *phytoptoccidium.

The analogy of these organs to the acaro-cecidia (that is to say, to galls caused by certain acarids) of laurels and various other plants is striking.

Smithsonian Report, 1896, p. 452.

acarodomatia, n. Plural of *acarodomatium. acarodomatium (ak'a-rō-dō-mā'shi-un, n.; pl. acarodomatia (-shi-ā). [NL., < Acarus + Gr. δωμάτιον, dim. of δωμα, a house: see dome.] A shelter formed on certain tropical plants for the protection of mites (acari) when they are of service to the host.

acarologist (ak-a-rol'ō-jist), n. [acarolog-y + -ist.] One who is versed in the study of the -ist.] One who is voice. Acarina, or mites and ticks.

If that be so, then it appears to me that Dr. Oudemans as proved conclusively that the sense in which acarolosists use the genus Oribata is correct.

Annals and Mag. Nat. Hist., April, 1902, p. 311.

acarology (ak-a-rol'ō-ji), n. [NL. acarus + Gr. -\langle oja; see -ology.] The scientific study of mites.

acatalepsy, n. 3. A weak understanding mental deficiency.
acatamathesia (a-kat'a-ma-thē'si-ā), n. [NL., n. 3. A weak understanding;

〈Gr. ά-priv. + καταμάθησις, thorough knowledge, 〈καταμανθάνειν, learn thoroughly, 〈κατά, intens., + μανθάνειν, know well.] Inability to comprehend ordinary conversation, accompanied by a blunting of the perceptions. Baldwin, Diet. of Philos. and Psychol.

acatastasia (a-kat-a-stā'si-ä), n. [NL., < Gr. àκαταστασία, instability, < à- priv. + κατάστασις, stability: see catastasis.] In med., irregularity in the symptoms or course of a disease.

acatastasis (ak-a-tas'ta-sis), n. [See *acatas-tusia.] 1. An unsettling, as of the mind. E. Hooker.—2. In med., same as *acatastasia. Syd. Soc. Lex.

acatastatic (a-kat-a-stat'ik), a. Unsettled; in-

acategorical (a-kat-a-stat ik), a. Unsettled; indeterminate; irregular.

acategorical (a-kat-a-gor'i-kal), a. [a-, not, + categorical.] Illogical; loose; inexact: as, acategorical arguments. [Rare.] N. E. D.

acatharsia, n. (c) Amenorrhea.
acatholic (a-kath'o-lik), a. [a-18 + catholic.]
Un-Catholic; not Catholic; hence, sectarian.
Encyc. Brit., XXX. 525.
A. O. O. In elect., an abbreviation of Anodic Closure Contraction.

accelerant (ak-sel'e-rant), a. and n. [L. accele rans, ppr. of accelerare, hasten: see accelerate.]

I. a. That accelerates; accelerating.

II. n. That which quickens; specifically, one of the nerves stimulation of which causes increased rapidity of the heart's action.

accelerate, v. t. 3. To assign a date earlier than the true or real one; give an earlier date to; antedate. Milman, Hist. Latin Christianaccelerate, $v.\ t.$

acceleration, n. (e) In biol., the supposed acquisi-tion of new characters by adults, and their inheritance by descendants at earlier and earlier stages of their life; *tachygenesis (which see).—Angular acceleration, the time-rate of angular velocity. It is measured nu-merically as radians per second per second.—Equation of acceleration. The acceleration of a body is equal to the force acting on it divided by its mass. The accelera-tion of a moving body at any instant is the rate at which dv d2s

tion of a moving body at any instant is the race at white its velocity is changing at that instant : $\alpha = \frac{dv}{dt} = \frac{d^2s}{dt^2}$.

its velocity is changing at that instant: $a = \frac{dv}{dt} = \frac{d^2s}{dt^2}$.

Equatorial acceleration of the sun, the diminution of the rotation period for points on the sun's equator as compared with the period at points in higher latitudes. Between the equator and latitude 40° the difference is about two days.—Linear acceleration, rate of change of linear velocity: usually expressed in centimeters per second per second.—Parallelogram of accelerations, a vector diagram for the resolution or composition of accelerations, similar in construction and principle to the parallelogram of forces. See force!—Becular acceleration, in astron, a slow increase in the mean orbital motion of a heavenly body. In the case of the moon it amounts to about 8 seconds in a century. See acceleration.—Triangle of accelerations, a vector diagram for the resolution and composition of accelerations, similar to the triangle of velocities or of forces. See *polygon of vectors.—Unit of acceleration, the acceleration which produces unit change of velocity in unit time: usually one centimeter per second per second.—Unit of angular acceleration, the acceleration which produces unit change in the angular velocity of a body in unit time: usually a radian in a second.

accelerative, a. 2. In philol., indicating a notion of acceleration: applied to certain verbforms in some agglutinative languages. See the extract.

The highly acceleration charge of this languages.

the extract.

The highly agglutinating character of this language [the Kuki-Lushai of North Kachar Hills and parts of

Accelerative force, in physics, a force which produces positive acceleration and consequently increases the velocity of a moving body: opposed to retarding force, the acceleration due to which is negative.

acceleration due to which is negative.

accelerator, n. (e) A device in a motor-car by which the operator may render inoperative the speed-governor of the motor. If the governor is of the centrifugal type, as the speed increases the balls or weights fly outward against the action of a spring. The accelerator increases the tension of the spring or draws the balls inward directly, so that the governor ceases to act to close the throttle or regulate speed as the motor increases its number of revolutions above the limit set by the normal tension of the springs.

accelerator-pedal (ak-sel'e-rā-tor-ped'al), n.
A pedal used to actuate the rods of the accelerator mechanism in many forms of motor-car.

See *accelerator (e).

accelerograph (ak-sel'e-rō-graf), n. An apparatus designed for measuring the succession of pressures developed in a powder-chamber by the combustion of a charge. The powder may be exploded in an inclosed vessel or be placed in the bore of a gun and act on a projectile.

accelerometer (ak-sel-e-rom'e-ter), n. 1. An

instrument for measuring the force required accipenserin, n. See *acipenserin.

to start a train and keep it going and the centrifugal force when the train rounds a curve.

The instrument consists of two glass vessels connected by a tube, one containing a liquid such as mercury and the other red alcohol. Amer. Inventor, July 15, 1904, p. 312.

2. An apparatus for showing by direct registry trings i force when the train rounds a curve.
The instrument consists of two glass vessels connected by a tube, one containing a liquid such as mercury and the other red alcohol. Amer. Inventor, July 15, 1904, p. 312.

2. An apparatus for showing by direct registry the law of the movement, in the function of time, of a piston subjected to the action of powder gases.

the one who lighted and extinguished the can-

performed by an altar-boy.

performed by an altar-Doy.

accent, n., 8. Musical accent in general is said to be transferred, or false, when for esthetic reasons it is placed in some unusual place, contrary to the simple rhythm: thus in a syncopated passage (see syncopation, 2) the accents are systematically transferred. In violin-laying, an accent is called dead when the bow is held firmly against the strings after beginning an emphatic tone, so as to choke the sound.

as to choke the sound.

10. In decorative art, an added relieving or contrastive touch or tint: as, deep blue or crimson, with accents of gold.—Logical accent. (a) The accent or stress placed by the voice on the root-syllable of a word, as in Anglo-Saxon and other Teutonic languages: as, for example, Anglo-Saxon gifan, to give, foryifennes, forgiveness, etc. (b) The special stress or emphasis laid on a particular word in a sentence: as, for example, on 'us' in the line, "Better for us, perhaps, it might appear" (Pope, Essay on Man, I. 169). Latham, English, II. 45.—Primary accent. (a) The principal accent or stress in a word of several syllables. In English, as a rule, it falls on a root-syllable, as in shep herdess, unnatural, imporsible; or on the first syllable: but the fact depends upon the history of the word in question, and cannot be reduced to one or two rules. (b) A character, usually ('), used to mark such an accented syllable.—Rhythmical accent, accent depending on rhythm as associated with quantity or pitch.—Becondary accent. (a) A second or minor accent or stress heard in the pronunciation of some words with two or more syllables, preceding or following that bearing the primary accent. (b) A character, usually ("), used to mark such an accent. The term often includes minor accents of the third (tertiary) or weaker grades, as in in"con"tro-ver'ti-ble, hy"percat"—lec'tic. in""com"tro-hem's birlity. etc.—Tonic 10. In decorative art, an added relieving or ary) or weaker grades, as in in"con"tro-ver'ti-ble, cat"a-lec'tic, in""com"pre-hen"si-bil'i-ty, etc.—accent, syllabic stress. ver'ti-ble, hy"per--tv etc. — **Tonic**

accentualist (ak-sen'tū-al-ist), n. [accentual + -ist.] One who holds to a particular theory of accent.

acceptance, n. 4. Acceptableness; the qualty of being acceptable. Browning, Ring and Book, ii. 835.— Acceptance of persons, favoritism; partiality.—Proposal and acceptance. See *proposal. acceptive, a. 2. Fitting; appropriate. Mrs. Browning, Loved Once.

access, n. 8. In the Rom. Cath. Ch., same as accepting for

accession, 6.

accession (ak-sesh'on), v. t. To enter in the accession-book of a library. See *accessionbook.

accession-book (ak-sesh'on-buk), n. book in which the titles of the books or vol-umes received by a library are entered in the order of their receipt, with all the necessary details regarding them, such as date of entry, accession-number, class-number, author, name of publisher, place and date of publication, size, number of pages, etc. J. C. Dana, Library Primer, p. 77.

accession-number (ak-sesh'on-num'ber). n.

The number given to a volume when it is entered in the accession-book of a library, showing the order of its receipt.

accessorius, a.—Lateralis accessorius, the accessor lateral line; in fishes, one or more series of mucous tube in addition to the usual series called the *lateral line*.

Nagaland] is evident from the numerous conjugations accessory. I. a. 3. In the logical system of given by Mr. Soppitt, for some of which he has no names, but which may be called Acceleratives, Retardatives, Complementatives, and so on. Keane, Man Past and Present, the market of thought a notion of the ground of its coherence. See the extract.

That peculiarity of thought which will govern the whole of our subsequent exposition lies in the production of those accessory and justificatory notions which condition the form of our apprehension.

Lotze (trans.), Logic, Introd., § 7.

4. In geol., noting those minerals which are present in relatively small quantities in a rock and are not mentioned in its definition, such as and are not mentioned in its dennition, such as zircon, apatite, and magnetite in granite: contrasted with essential.—Accessory germ-plasm. See **derm-plasm.—Accessory idioplasm. See **derm-plasm.—Accessory idioplasm. See **derm-plasm.—Accessory signs, in music, parts or voices which supply an accompaniment to those which are principal or essential.—Accessory signs, in pathol, customary or constantly attendant signs.

II. n. 4. In organ-building, same as accessory steps.

★stop.

Accident yield. See *yield.
Accidental variations. See *variation.
accidentalism, n. 4. In philos., the opinion that events are sometimes modified without adequate cause: a use of the word proposed by J. M. Baldwin.

locality or to new conditions.

accolent (ak'o-lent), a. and n. [L. accolens (-ent-), ppr. of accolere, dwell by, < ad, to, + colere, till, dwell: see cult.] Dwelling near by; one who dwells near by.

The close resemblance between the skulls of the ancient Cibolans and those of the accolents of the Gila-Salado has been commented on by others. J. W. Fewkes, in Smithsonian Report, 1896, p. 519.

accommodation, n. 5. In biol., a change which is brought about in a living being by its own activity and is not transmitted to its descendants, as contrasted with a variation regarded as a congenital change which is not the effect of the activity of the organism and is transmitted to descendants; an acquired character.—6. In genetic psychology, the reverse of

acter.—6. In genetic psychology, the reverse of habit. It implies modification of function or type, and finds expression in selective thought, interest, etc. Baldwin, Handbook of Psychol., p. 49.
7. In theol., the theory that God in his revelation so modifies its teaching that it meets the needs of man, who is limited in knowledge and holiness. So God's law is accommodated to the hardness of man's heart, and his truth to ignorance.—8. A public coach with seats inside for twelve persons and with an extrance on for twelve persons, and with an entrance on for twelve persons, and with an entrance on each side. The body was hung on leather thorough-braces after the manner of the post-chaise. It was first used in New York on Broadwaybetween Wall and Bleecker streets. Its successors were the sociable and the omnibus.—Absolute accommodation, that of one eye acting independently of its fellow.—Accommodation phosphenes. See *phosphene.—Idmits of accommodation, in physiol. and psychological optics, the nearest and farthest points at which an object can be seen slighe: also termed range of accommodation.—Line of accommodation, in psychological optics, the portion of the line of alght for points in which the same degree of accommodation is sufficient.—Range of accommodation. See limits of *accommodation.—Relative accommodation, that effected by the two eyes acting together.

stion, that effected by the two eyes acting together.

Scompaniment, n. (a) An accompaniment is said to be obbligate when it so far differs from that which is accompanied that it is necessary for the intended effect, but ad libitum when it so nearly coincides with that which is accompanied that it may or may not be used, at will. The form of an accompaniment is specifically described by terms such as arpeggio, figured, pulsatile, harmonic, contrapuntal, running, etc., and its character is indicated by naming the instrument or other apparatus by which it is provided: as, a plano accompaniment, a chorus accompaniment, etc.—Accompaniment figure, in music, a small pattern of notes which is used again and again, with but slight modifications, so as to form a continuous background or framework for a solo or other principal melody. The so-called Alberti bass is one variety of accompaniment figure; but the term is extended to cover much more elaborate melodic figures which are repeated in accompaniments. in accompaniments.

uccordatura (a-kôr-dā-tō'rā), n. [It., $\langle accordare, accord, v.$] The normal series of tones to which the strings of a stringed instrument, such as the violin, are tuned: any deviation from this series is called *scordatura*. Sometimes written accord.

according, adv.—According to Gunter, reckoned, determined, ascertained, or laid down in accordance with, or by means of, the rule, scales, tables, or instruments devised by Edmund Gunter (1581-1620), a noted English mathematician; hence, exact or exactly; accurate or according to the control of the contro

accordion, n. II. a. Resembling in its folds

the bellows of an accordion: as, an accordion camera (one that is extensible), accordion skirts, etc.

accordment (a-kôrd'ment), n. [accord, v., + -ment.] Accord; agreement; reconcilement. N. E. D.

ACCOUNT, n.—Bureau of accounts. See *bureau.—
Joint account, an account, as in a bank or in some particular course of business dealings, in which two or more persons are conjointly interested, as distinguished from an account in which only one person, firm, or corporation is interested.—To square accounts, to ascertain, and to pay or receive, the balance due in any particular course of business dealings; settle up by paying or receiving the balance due. account, n.

accountant, n.—Chartered accountant, a certified public accountant. [British.]

The fiftieth anniversary of the incorporation of char-ered accountants in Scotland. Athenseum, Dec. 19, 1903.

accounter (a-koun'ter), n. [account, v., + er.] 1. One who counts or reckons; an accountant; a 'teller.'—2. One who keeps or renders, or is required to render, an account,

countant; a 'teller'—2. One who keeps or aconite acid.

renders, or is required to render, an account, acedia (B'sā-dē'š), n. [Cuban use of Sp. accas a steward of his stewardship.

accounting (a-koun'ting), n. [account, v., + of tongue-fish or sole, Symphurus plagusia.

-ing.] 1; Reckoning; computation; counting.—2 An examination, reckoning, rendering, or balancing of accounts so as to arrive at the cavity of the state of any transaction or course of acefalous, a. A simplified spelling of acephaas a steward of his stewardship.

accounting (a-koun ting), n. [account, v., +
-ing.] 1†. Reckoning; computation; counting.—2. An examination, reckoning, rendertransactions: as, the court ordered an accounting; the parties came to an accounting.—3. The art or science of keeping accounts; the principles or methods of account-keeping; accountancy: as, manufacturing accounting; mercantile accounting. Amer. Accountant's Manual, I. 183.

accountment (a-kount'ment), n. accountment (a-kount'ment), n. [account, v., +-ment.] Accounting; responsibility. [Rare.] accouplement, n. 3. In arch., the act of placing two pillars, columns, or pilasters close together, so as to form a pair, in contrast with similar pieces which are spaced more widely. Accouplement is rare in classical buildings as we know them, but is common in modern work.

Accra rubber. See *rubber.
accrate, a. 2. In biol., grown together: said of parts normally separate but naturally grafted. See accretion, 2.

**Accretion, n. 5. In forestry, increase in diam-

accretion, n. eter or height: distinguished from increment, increase in volume.—6. In petrol., a term proposed by Johnston-Lavis for a mass formed in solution by deposition about a nucleus, as in oditie, or upon the walls of a cavity. It stands in contrast to concretion, which is defined by the author named as a mechanical agglomeration about a nucleus. Accretion borer. See *borer.—Accretion cutting. Same as *accretion thinning. In forestry, a thinning made specifically to increase the rate of growth in diameter of the trees which are left standing.

accultural (a-kul'tū-ral), a. [L. ac- for ad- + cultura, culture, + -al.] Obtained by acculturation, or by the adoption of foreign cultural

The invention is at first individual, but when an inven-tion is accepted and used by others it is [accultural, and the invention of the individual may be added to the in-vention of others, so that it may be the invention of

many men.
J. W. Powell, in Rep. Bur. Am. Ethnology, 1897-98, p. xxi. acculturation (a-kul-tū-rā'shon), n. [L. acfor ad- + cultura, culture, + -ation.] The process of adopting and assimilating foreign cultural elements.

The process of culture in all the five departments is by invention and acculturation.

J. W. Powell, in Rep. Bur. Am. Ethnology, 1897-98, p. xxi.

acculture (a kul'tūr), n. [See accultural.]
The cultural elements acquired by contact with foreign forms of culture. G. S. Hall,
Adolescence, II. 726.

acculturize (a-kul'tūr-īz), v. t.; pret. and pp. acculturized, ppr. acculturizing. [acculture + -ize.] To make the culture of a people similar -ize.] To make the culture of a people similar to that of another; to bring about assimilation of culture.

The arts and industries of the partially acculturized Papago Indians. Smithsonian Report, 1895, p. 44. accumbent, a. 3. In entom., lying closely, as

the scales on a butterfly's antenna.

accumpaniment, n. A simplified spelling of

accompaniment.

accumpany, v. t. A simplified spelling of ac-

accumulator, n. 3. (c) In the pressure accumulator the displacement plunger is forced into the hydraulic cylinder by a piston which fits a second cylinder and on whose acting face a pressure of steam or air is maintained from a steam-boiler or from a compressed air pump or reservoir of large capacity. The name accumulator or reservoir of large capacity. The name accumulator is also given to a storage battery, in electrical engineer-

ing, since the battery may be charged and discharged at different rates, and in the chemical reaction caused by the charging current an electrical energy is accumulated which is discharged when the circuit is completed through the line. The energy may also be accumulated or stored in the form of heat in steam or other heat-transferring medium. In what has been called the regenerative accumulator, for example, steam from the exhaust-pipe of an intermittent non-condensing engine, such as a hammer, a hoisting-engine, or a rolling-mill, is received in a sheet-steel cylinder containing cast-iron plates. The metal mass acts to condense and reëvaporate this exhaust steam, and to accumulate the varying energy of the exhaust, so as to deliver a constant flow of low-pressure steam to some other form of steam-motor, preferably a condensing steam-turbine. steam-turbine.

steam-turbine.

Ace in the pot, a dice game in which each player gets rid of a counter for every ace thrown.

3.-C.-0. mixture. See *mixture.

3.-c.-0. mixture. See *kmixture.

4. (a)conitic (as-e-kō-nit'ik), a. [ace(tic) + (a)conitic?] Noting an acid, C₆H₆O₆, which is formed by the action of sodium on the ethyl ester of bromacetic acid. It is isomeric with aconitic acid.

aceitillo (ä-sā'i-tēl'yō), n. [Porto Rico Sp., dim of Sp. aceite, oil.] In Porto Rico, a small tree, Simarouba Tulæ, the wood of which is strong, durable, and well suited to all kinds of coarse carpenter-work.

sce-line (ās'līu), n. In hand-ball and sin sports, a line used in marking the courts. In hand-ball and similar

sports, a line used in marking the courts.

acenaphthene (as-e-naf'thēn), n. [ace(tic) +
naphthene.] A hydrocarbon, C₁₂H₁₀, obtained
from coal-tar and also prepared artificially by
heating a-ethylnaphthalene.

acenaphthylene (as-e-naf'thi-lēn), n. [ace(tic)
+ naphthylene.] A hydrocarbon, C₁₂H₈, formed
when the vapor of acenaphthene is passed
over red bot lead ovid

over red-hot lead oxid.

over red-hot lead oxid.

Acentrogobius (a-sen-trō-gō'bi-us), n. [NL., (Gr. ἀκεντρος, without sting, spine, or spur, + L. gobius, goby.] A genus of Asiatic river gobies, little different from Ctenogobius.

Acentropus (a-sen'trō-pus), n. [NL. (Westwood, 1835), (Gr. ά-priv. + κέντρον, spine, + πούς, foot.] An anomalous genus of pyralid moths of the subfamily Schænobiinæ, which contains the most completely aquatic forms of the order Lepidoptera. The larve live below the the order Lepidoptera. The larvæ live below the surface of the water on the leaves of aquatic plants, but have no air-gills. Their method of respiration is unknown.

acentrous (a-sen'trus), a. [Gr. à- priv. κέντρου, center.] Without a center; specifically, noting a condition of the vertebral column found in some batrachians and fishes, in which bony neural arches are associated with a persistent notochord which shows no trace of segmentation: said also of cells in which a centrosome or centrosphere cannot be detected.

acephal, n. 2†. An animal or living being supposed to be headless; one of the Acephali.

Topsell, Four-footed Beasts. N. E. D.

II. a. Headless; without a head or leader.

acephalate (a-sef'a-lat), a. [As acephal(ous)] + -ate¹.] Acephalous; specifically, of or pertaining to the Acephala.

acephalic (a-se-fal'ik), a. [acephal-ous + -ic.]

[acephal-ous + -ic.] Same as acephalous; headless.

Its evolution has been acephalic, diffuse, or headless.

L. H. Bailey, Survival of the Unlike, p. 16.

Acephalina (a-sef"a-li'nä), n. pl. [NL., as acephal(ous) + -ina2.] A group of Eugregarinæ, or a suborder of Gregarinida, in which the body is non-septate and there is no epinorito the body is non-septate and there is no epinorito the new temperature. merite at any stage. They are chiefly coparasites. Monocystis is an example. They are chiefly coclomic as Monocystidea.

acephaline (a sef'a-lin), a. [NL. acephalinus (neut. pl. Acephalina), (Gr. ακέφαλος, headless: see acephalous.] Resembling the Acephalina, or having no epimerite, as certain Gregarinida.

A small sporozoite penetrates into a blood corpuscle and there grows, assuming all the characters of a small acephaline Gregarine. Encyc. Brit., XXXII. 814.

acephalism (a-sef'a-lizm), n. The opinions and practices of the acephalists, or those who acknowledged no ecclesiastical superior. See Acephali.

acephalocyst, n. 2. A sterile echinococcus cyst.

acephalophorous (a-sef-a-lof'ō-rus), a. [Gr. ά-priv. + κεφαλή, head, + -φορος, < φέρειν, bear.]

Not bearing a distinct head; resembling the Acephalophora.

aceraceous (as-e-rā'shius), a. [NL. Aceraceæ + -ous.] In bot., having the characters of or belonging to the Aceraceæ or maple family.

Acerata (a-ser'a-tā), n. pl. [Gr. ἀκέρατος, without horns, ζά- priv. + κέρας, horn.] In Kingsley's classification of the Arthropoda, a division given rank as a class and coequal with division given rank as a class and coequal with the Crustacea. It is defined as including branchiate arthropods in which the branchial folds act either as gills or as lungs. The body has a well-defined cephalothorax and abdomen, six segments and their appendages appertaining to the former, and the segments more or less fused; a caudal spine or telson; and no antennes. The Aceratare divided into two groups, the Merostomata, of which Limutus is the only existing representative, and the Arachnida, or spiders, mites, and scorpious.

acerate² (as'e-rāt), a. [L. aceratus, mingled with chaff (taken here as 'like chaff,' that is, 'sharp-pointed,' appar. associated with acus (acu-), a needle), (acus (ace-), chaff.] Needleshaped or rod-shaped: specifically applied to monaxon spicules found in calcareous sponges; in bot., same as accrose (b).

a corquate (a cher-kwa'te). [It. dial. (Perugian): a, with; cerquate, pl., < cerqua= Sardinian kerku (= It. querce, quercia), < L. quercus, oak: see Quercus.] Said of decoration consisting of conventionalized oak leaves and acorns, usually painted in deep yellow on a blue ground. Such decoration is frequently blue ground. Such decoration is frequently found on Italian majolica wares, particularly those of Urbino.

Acervularia (a-sėr-vū-lā'ri-ā), n. [NL., \ L. accrvulus, a little heap, + -aria.] A genus of extinct tetracorals of the family Cyathophyllidæ, abundant in the Silurian and Devonian formations. They grow in bushy colonies, and have stout septa, tabulæ in the central area, and the peripheral zone filled with vesicular tissue.

acervulus, n. 2. The fruiting pustule of certain fungi, as Glacosporium and related genera, consisting of small dense masses of conidiophores and conidia formed beneath the epidermis of the host, which bursts and permits the escape of the conidia when they mature.

Acetabularia (as-e-tab-ū-lā'ri-ā), n. [NL., < L. acetabulum, cup, + -aria.] See *acetabu-

acetabulate (as-e-tab'ū-lāt), a. Cup-shaped, as the sucker of certain trematodes.

acetabulum, n. 5. [cap.] A genus of calcareous green algæ, Chlorophyceæ, found in tropical or subtropi-

cal waters: characterized by an erectaxis surmounted by solid cap which consists of numerous radiating chambers.

Also Acetabu-laria. Tournefort, 1719.

acatabulous (as - e - tab lus), a. In bot., same as acetabuliform, 1.

acetacetic (a-set-a-sē'tik), a. See *acetoacetic

acetaldehyde (as - et - al)'dē-

hid), n. [acet- a, Acetabulum exiguum, a thallus en-larged; b. Acetabulum exiguum, spores (ic) + alde- with lid. (From Murray's "Introduction hyde.] The al. . . . to Scaweeds.")

a

dehyde CH₃CHO, formed by the oxidation of common or ethyl alcohol. It boils at 21 and has a disagreeable penetrating odor. It hoils at 21° C.,

acetamidine (as-et-am'i-din), n. Same as

Acetaminoacetic acid. Same as *aceturic acid.

acetaminol (as-et-am'i-nōl), n. [$acet(ic) + am(monia) + -in^2 + -ol.$] A trade-name for π -acetaminobenzoyleugenol, NH(C₂H₃O)C₆-H₄CO₂.C₆H₃(OCH₃)C₃H₅. It is a crystalline substance having antiseptic properties.

acetanilide (as-et-an'i-lid), n. [acet-yl + anilide.] A substance, C_0H_0NH . C_2H_3O , formed by heating aniline and glacial acetic acid for several hours, or by the action of acetyl chlo-rid or acetic anhydrid on aniline. Founes.

acetenyl (a-set'e-nil), n. [acet(ic) + -ene + **aceteny1** (a-set'e-nil), n. [acet(sc) + -ene + -yl.] A term used in composition, indicating that a compound contains the group CH:C, derived from acetylene (C₂H₂), as acetenylbenzene, C₆H₅C:CH. It has also been erroneously used to designate the group CH₂:CH, styrene (C₆H₅CH:CH₂) having also been called acetenylbenzene.

See *acetenul.

acetenylbenzene. See *acetenyl. acethemin, acethemin (as-et-hē'min), n, [acet(ic) + Gr. $ai\mu a$, blood.] The term applied to a preparation, $C_{34}H_{33}O_4N_4ClFe$, of hemin said to contain an acetyl group, $C_{13}CO$. It is derived from the coloring matter of the blood.

Acetin blue. See *blue.

acetize (as'e-tiz), v. i.; pret. and pp. acetized, ppr. acetizing. To undergo acetous fermentation; become sour. R. F. Burton.

acetoacetate (as'e-tō-as'e-tāt), n. [acetoacet(ic) + -ate¹.] A salt of acetoacetic acid. acetoacetic (as'e-tō-a-sē'tik), a. Noting an

acetoacetic (as e-to-a-se tik), a. Noting an acid, CH₃COCH₂CO₂H, scarcely known in the free state because of its instability. It is found in the urine of persons suffering from diabetes and sometimes in that of those suffering from fevers. See *diacetic acid. -Acetoacetic ester, an ester of acetoacetic acid, especially the ethyl ester, CH₃COCH₂CO₂C₂H₅. It is a colorless liquid with a pleasant odor, and boils at 180°C. It is of very unusual importance, both because its conduct is typical of a large class of similar compounds and because it can be used for the synthesis of a great variety of compounds.

acetochlorhydrose (as'e-tō-klōr-hī'drōs), n. [acet(ic) + chlor(in) + hydr(ogen) + -ose.] A bitter dextrorotatory compound, $C_6H_7(C_2H_3-C_3)$ of $C_6H_7(C_3H_3-C_3)$ acetol (acceptable).

rid on c-glucose, acetol (as'c-tōl), n. [acet(ic) + -ol.] A compound, CH₃COCH₂OH, having the official name 1-hydroxypropanone. It is a liquid which bolls with decomposition at 147°C. Variously designated as acetylcarbinol, pyroracemic alcohol, hydroxyacetone, and acetone alcohol.

acetolatum (a-set-ō-lā'tum), n. [acetum, vine-gar.] An aromatic liquid preparation obtained by distilling vinegar containing an es-

sential oil.

Actions alcohol. Same as *acetol.—Actions chloroform, a compound of acetone and chloroform, (CH₃)₂C-(OH)CCl₃+1½H₂O. It is crystalline and has an odor resembling that of camphor.

Acetonic acid, a-hydroxyisobutyric acid, (CH₃)₂C(OH) CO₂H, a crystalline acid prepared from acetone. It melts at 79° C.

acetonitrile (as'e-tō-nī'tril), n. [acetone + nitrile.] Methyl cyanide, CH₃CN, the nitrile of acetic acid. It is a liquid which boils at

acetonuria (as'e-tō-nū'ri-ä), n. [NL., < acetone + Gr. ovpov, urine.] The elimination of acetone in the urine: seen notably in diabetes and in febrile diseases.

and in febrile diseases.

acetonyl (a-set' $\bar{0}$ -nil), n. [acetone + -yl.] A term used in composition, indicating that a compound contains the group CH_3COCH_2 , derived from acetone, as acetonylacetone, CH_3 -COCH₂CH₂COCH₃. It is also used for compounds containing the group $(CH_3)_2C$., as acetonylurea, $(CH_3)_2C$.NH

CO.NH CO.

CO.NH

acetonylacetonate (a-set'ō-nīl-a-set'ō-nāt), n.

[acetonylacetone + -ate¹.] A salt formed from acetonylacetone. See *acetonyl.

acetophenine (as'e-tō-fē'nin), n. [acetophen(yl) + -ine².] A weak base, C₂₃H₁₇N, formed by the action of ammonia and phosphorus pentoxid on acetophenone. It crystallizes in needles which melt at 135° C.

acetophenone (as'e-tō-fē'nōn), n. [acet(ic) +

acetophenone (as'e-tō-fē'nōn), n. [acet(ic) + phen(yt) + -one.] A compound, $C_0H_5COCH_3$, formed by the distillation of a mixture of calcium acetate and benzoate. It melts at 20.5° and boils at 202° C. It is used as a hypnotic and in the preparation of a great variety of compounds. Also *ethylon-phen, *phenylmethylketone, and hypnone.

acetopyrin, acetopyrine (as"e-to-pi'rin), n.

aceto-soluble (as'e-tō-sol'ū-bl), a. Soluble in acetic acid: as, aceto-soluble albumin, a form of serum albumin described by Patein as occurring in the urine.

acetoxime (as-ctok'sim), n. [acet(ic) + oxime.] see achilus.] Congenital absence of one or The oxime ((CH₃)₂C: NOH) of acetone. It is both lips. a volatile solid which melts at 60° and boils at achill (a-chil'), adv. [a³ + chill.] Chilled;

acetoxyl (as-e-tok'sil), n. [acet(ic) + ox(ygen)]**Acetoxy1(as-e-tok'sil), n. [acet(ic) + ox(ygen) + -yl.] 1. Kolbe's name for acetyl.—2. A name for the group CH₂(OH)CO: as, acetoxylglycolic acid, CH₂(OH)CO.CH(OH)CO₂H.—3. A name for the group —0.C₂H₂O: as, acetoxylbutyric ester, CH₃CH₂CH(OC₂H₃O)CO₂-C₂H₃. [Commonly used as a prefix.]

**acetozone*(a-set'ō-zōn), n. [acet(ic) + ozone.]

A trade-name for **benzoylacetylperoxid*(which see)

acetract (as'e-trakt), n. [L. ace(tum), vine-gar, + E. (ex)tract.] A solid extract of a drug made with a menstruum containing acetic acid. Buck, Med. Handbook, I. 65.

acetum, n. 2. A pharmaceutical preparation usually made by percolating a drug with dilute acetic acid.

lute acetic acid.
aceturic (as-e-tū'rik), a. Noting an acid, the acetyl derivative (C_2H_3 -O.NHCH₂CO₂H) of glycocoll or glycin. It melts at 206° C. Also called acetylglycin and acetaminoacetic acid.

acetylacetonate (as'e-til-a-set'ō-nāt), n. [ace-tylacetone + -ate¹.] A salt formed from acetyl-

acetylacetone (as'e-til-as'e-tōn), n. [acet(ic) + -yl + acetone.] A compound, CH₃COCH₂-COCH₃, formed by the action of sodium on a mixture of acetone and ethyl acetate. It is a liquid which boils at 137° C. It forms salts which are probably derived from the tautomeric form, CH₃COCH:C-(OH)CH₃.

acetylate (a-set'i-lat), v. t.; pret. and pp. acetylated, ppr. acetylating. [acetyl + -ate¹.] To introduce the acetyl group into; especially, to prepare an acetyl derivative of an organic compound containing a hydroxyl- or amino-

acetylation (a-set-i-la'shon), n. -ation.] The treatment of organic substances with acetic anhydrid in order to determine the presence and amount of alcoholic hydroxyl. Same as acetylization.—Acetylation test, the application of this process to giverol and fatty substances as a part of their chemical examination.

acetylcarbinol (as'e-til-kär'bi-nol), n. Same

acetylene, n. This gas, C₂H₂, prepared by the action of water on calcium carbide, is now largely used as an illuminant and to increase the illuminating value of coalgas and water-gas of poor quality.

it acetylglycin (as'e-til-gli'sin), n. Same as

*acetonine (a-set'ō-nin), n. [acetone + -ine².] acetylide (a-set'i-lid), n. [acetyl + -ide¹.] A very unstable base, C₀H₁₈N₂, whose thiocarbonate is formed by the action of carbon bisulphid and ammonia on acetone.

acetonitrile (as'e-tō-ni'tril) n. [acetyl + -ide¹.] A compound formed by the replacement of one or both of the hydrogen atoms of acetylene by a metal. Cuprous acetylide (Cas'e-tō-ni'tril) n. [acetyl + -ide¹.] a metal. Cuprous acetylide (Cu₂C₂) and silver acetylide (Ag₂C₂) are highly explosive, while the acetylides of alkali and alkaline earth-metals are not explosive. Achæmenian, a. II. n. A Persian of the time of Achæmenes or the Achæmenidæ; also, the

Persian language of that period (recorded in

achascophytum (a-kas-kof'i-tum), n.; pl. achascophyta (-tä). [NL., Gr. ά- priv. + χάσ-κειν, to open, dehisce, + φυτόν, a plant.] In bot, a plant having an indehiscent fruit.

bot., a plant having an indehiscent fruit.

Achatinellids (a-kat-i-nel'i-de), n. pl. [NL., Achatinella + -idæ.] A family of stylommatophorous, pulmonate Gasteropoda. They have a small bulimoid shell, indifferently dextral or sinistral, and a radula of two types, one having the teeth in very oblique rows, central, laterals, and marginals all of the same type, base narrow, head rather broad, with numerous small denticles (as in Achatinella proper, Auriculella, and Tornatellina), the other having the central tooth small and narrow, laterals bicuspid, and marginals as in Helix (Amastra and Carelia).

achenocarp, n. Same as achænocarp

achenocarp, n. Same as achenocarp.

Achernian (a-kėr'ni-an), a. and n. [Achernar, the name of a star, + -ian.] I. a. Noting stars similar to Achernar, in the spectrum of which hydrogen, helium, asterium, oxygen, nitrogen, and carbon are predominant: supposed by Lockyer to be cooling.

II. n. An Achernian star.

Acheson graphite, process. See *graphite,

Acheulian (ä-shė'li-an), a. Of or pertaining to Saint-Acheul, in the Somme valley, northern France.—Acheulian deposits, in geol. and archeol., paleolithic deposits containing carefully worked flint implements of more recent date than the rude flints found in the Chelléan beds: so named by Mortillet from the occurrence of such relics at Saint-Acheul.

achiev, v. t. A simplified spelling of achieve. achilia (a-ki'li-ä), n. [NL., <*achilus, lipless: see achilous.] Congenital absence of one or

Had . . . the warm breeze grown achill?

Morris, Earthly Paradise, III. iv. 39

Achilles (a-kil'ēz), n. An argument, otherwise called 'Achilles and the Tortoise,' which wise called 'Achilles and the Tortoise,' which was proposed by Zeno of Elea to prove that motion is impossible. Suppose that Achilles runs parallel to the tortoise, which is moving slowly in the same direction and is at the start some distance ahead of Achilles. The argument is that Achilles never will overtake the tortoise, because in order to do so he must first move to the point at which the tortoise started, and when he arrives there the tortoise will again be a certain distance ahead and the same condition of things will be repeated. Hence Achilles will not overtake the tortoise until he has completed or ended a series of advances which has no completion or end. The argument is absurd from both the logical and the mathematical point of view.

achilletin (ak-i-le'tin), n. [achill(ein) + -et + -in².] A compound, $C_{11}H_{17}O_4N$, formed by the action of dilute sulphuric acid on achillein.

It is a dark-brown powder and is not bitter.

achillodynia (a-kil-ō-din'i-ā), n. [Achilles tendon) + Gr. ὁδίνη, pain.] Pain in the heel.

Achirina (ak-i-rī'nē), n. pl. [NL., < Achirus + -inæ.] A subfamily of soles, typified by the + -inæ.] A su genus Achirus.

genus Achirus.

achlorhydria (a-klōr-hī'dri-ā), n. [NL., < Gr. à- priv. + chlorhydric + -ia.] Absence of hydrochloric acid from the gastric juice.

achocon (ä-chō-kōn'), n. [Per. Sp., < a native name.] A name in Peru of a large tree of the violet family, Leonia glycycarpa. It bears a rough yellow edible fruit the size of a peach, filled with a soft sweet pulp of the same color, and is held in much esteem by the Peruvians.

acholic (a-kol'ik), a. [Gr. à- priv. + xohh, bile: see cholic.] Marked by the absence of bile; free from bile. Lancet, May 30, 1903, p. 1,498.

achondrita (a-kon'dwit) = [-12]

achondrite (a-kon'drit), n. [a-18 + chondrite.] A meteoric stone, or aërolite, containing little or no iron and essentially free from chon-See *meteorite.

achondroplasia (a-kon-drō-plā'si-ā), n. [NL., ⟨Gr. ā- priv. + χόνδρος, cartilage, + πλάσις, molding, conformation.] An anomaly of de-velopment marked by deficient cartilaginous growth resulting in a form of dwarfism. The subject of this affection is very short and "stocky," with large head and well-developed muscles.

achondroplastic (a-kon-dro-plas tik), a.
[achondro(plasia) + plastic.] Relating to or

affected with achondroplasia.

achordal (a-kôr'dal), a. [Gr. ά-priv. + χορδή, a cord.] 1. Not connected with or developed a cord.] 1. Not connected with or developed from the notochord.—2. Having no spinal cord.

achordate (a-kôr'dāt), a. and n. [NL. *achordatus, < Gr. a- priv. + χορόή, chord.] I. a. Having no notochord; invertebrate; belonging to the Achordata.

II. n. One of the Achordata

H. n. One of the Achordata.
achoresis (ak-ō-rē'sis), n. [NL. achorēsis, < Gr. ά- priv. + χωρείν, make room, contain.] A condition of diminished capacity of any one of the hollow viscera, as the bladder.</p>
Achorutes (ak-ō-rū'tēz), n. [NL. (Templeton, 1835), < Gr. ά- priv. + χορεντής, a dancer, jumper, < χορεύειν, dance.] A genus of collembolan insects of the family Poduridæ. It is remarkable for the fact that certain of its species as A.</p> markable for the fact that certain of its species, as A. nivicols of the United States and A. murorum of Europe, occur frequently in great numbers on the surface of snow. They are sometimes called snow-fless.

achrematite (a-krē'ma-tīt), n. [Gr. ἀχρήματος, without money, ζά- priv. + χρήμα, money: because it does not (as alleged) contain silver.] A mineral of doubtful character found at the mines of Guanaceré, Mexico. It consists of the arseniate and molybdate of lead

Achroma unguium, in pathol, the presence of white spots on the nails.

achromat (ak'rō-mat), n. [G. achromat, < Gr.

άχρώματος, colorless: see achromatic.] In optics, a lens or system of lenses corrected for tice, a lens or system of lenses corrected for chromatic aberration.—New achromat, an achromat constructed on modern principles (the theory being far advanced beyond those which determined the construction of the old achromats) and made of the new Jena glass, which renders it possible to give the achromat a flat field.—Old achromat, an achromat made of old-fashioned crown- and flint-glass, and necessarily having a field which is not flat.

achromatic, a. 2. In biol.: (a) Colorless; hyaline. (b) Difficult to stain: a term applied to the powtion of the cell-negleus which

plied to the portion of the cell-nucleus which exhibits little or no tendency to stain in carmine, hæmatoxylin, or certain aniline dyes used in histologic and cytologic technic.—
Achromatic figure, in cytol., the non-staining as opposed to the staining portion of the karyokinetic figure. See achromatin.—Achromatic mass, in cytol., any non-staining portion of the karyokinetic figure, such as the substance which accumulates about the poles of the achromatic spindle.—Achromatic *mirror *objective, *ocular, *refractivity, *stereoscope. See the noune.—Achromatic spindle, the protoplasmic threads between the poles of the spindle in karyokinesis, which do not train.

achromatistous (a-kro'ma-tis'tus), a. Of the nature of or characterized by achromatosis; deficient in coloring matter. Syd. Soc. Lex. achromatizable (a-krō'ma-tī-za-bl). a. Capa-

ble of being corrected for chromatic aberra-tion. Also spelled achromatisable.

achromatolysis (a-krō-ma-tol'i-sis), n. [Gr. $\dot{\alpha}\chi\rho\omega\mu\sigma\sigma_{0}$, not colored, $+\lambda\nu\sigma\iota_{c}$, dissolution.] In cytol., the breaking down or dissolution of the achromatic substance of the cell: opposed to chromatolysis.

schromic (a-krō'mik), a. [Gr. à- priv. + $\chi \rho \bar{\omega} \mu a$, color.] Devoid of color; colorless. When starch is inverted by diastatic ferments a point is reached where the solution no longer gives a blue color with iodine; this is termed the actromic point of the achromic (a-krō'mik), a.

starch solution.

achromin (a-krō'min), n. The achromatin or linin of the nucleus of the cell, as contrasted with the chromatin.

The most common division of the caryoplasm in the cells of the animal and plant body is into two chemically different substances, which are usually called chromatin (or nuclein) and achromin (or linin).

Haeckel (trans.), Wonders of Life, p. 140.

achronism (ak'rō-nizm), n. [Gr. à-priv. +

zenronism (ak ro-nizm), n. [Gr. α-priv. + χρόνος, time, + -ism.] Lack or deficiency of time; absence of time (in which to accomplish anything). [Rare.] N. E. D.

achroōglycogen (ak-rō-ō-glī'kō-jen), n. [Gr. ἀχροος, colorless, + glycogen.] A colloid carbohydrate which results from snail-mucin on prolonged holling with dilute saida calledia.

hydrate which results from snail-mucin on prolonged boiling with dilute acids or alkalis. On decomposition it is said to yield glucose.

achylia (a-ki'li-ä), n. [NL., < achylus, without chyle: see achylous.] Absence of chyle.—

Achylia gastrica, a disease marked by deficient secretion or absence of the gastric juice.

achymous (a-ki'mus), a. [NL. *achymus, < Gr. a-priv. + χυμός, juice: see chyme.] Having no chyme.

achyrophytum (ak-i-rof'i-tum), n.; pl. achyrophytu (-tä). [NL., < Gr. ἀχυρου, chaff, glume, + φυτόυ, a plant.] In bot., a glumaceous plant,

as grasses, sedges, etc.
acicula, n. 5. In bot.: (a) The bristle-like prolongation of the rachilla of a grass-spike. (b) A tooth-like process in the hymenium of cer-

A touth-like process in an analysis for funding the first funding the funding the funding fund

cludes the families Epallacidæ, Stylocordylidæ, and Tethyidæ. Also Acioulinæ.

sciculite (a-sik'ū-līt), n. [L. acicula, a needle, +-ite².] Same as aikinite.

sciculus, n. 2. Same as aciculum.

scid, a. and n. I. a.—Acid alizarin blue, brown, green. See *blue, *brown, *green. Acid color. See *color. For specific acid colors see *acid-blue, acid-green, acid intoxication. Same as *acid-blue, acid-green, acid intextic (as'i-di-met'-rik), a. Of or pertaining to the acidimeter or to acidimeter or to acidimeter acid when acid-metric (as'i-di-metr'-rik), a. Of or pertaining to the acidimeter, acidimeter, n.—Twichell's acidimeter, n.—Twichell's acidimeter, ac

See *test!, *tide!.

II. n.— Schaeffer's acid, the commercial name of one of the seven isomeric monosulphonic acids of β-naphthol. It is an important raw material in the color industry.—Scheele's acid, a 5 per cent. solution of absolute hydrocyanic acid in water.

Acidanthera (as'i-dan-thē'rā), n. [NL., appar.

Acidanthera (as'i-dan-thē'rā), n. [NL., appar.]

(L. acidus, sour, acid, + Gr. ἀνθηρός, flowering (or NL. anthēra, anther.)] A genus of about 20 acidity, in petrog, a ratio derived from the chemical analysis of a rock policy dividing the number of atoms of oxygen contained in the various oxid bases in summer. The best-known species is Δ. bicolor, with creamy white, chocolate-blotched flowers in a simple, lax spike.

[NL., (L. acidus, acidus, n.—Coefficient of acidity, n.—Coe

Acidaspis (as-i-das'pis), n. [NL., \langle L. acidus, sharp, + aspis (Gr. $a\sigma\pi^i\varsigma$), shield.] A genus of trilobites in which the shield bears numerous spines: characteristic of the Silurian and Devonian formations.

acid-black (as'id-blak'), n. One of the naphthol blacks.—Anthracene acid-black, a mordant acid coal-tar color. In an acid bath it dyes unmordanted wool a black which becomes much faster when after-chromed.—Azo acid-black, the name assigned to a mixture of various dyestuffs. It is largely used on account of its good distributing power and the handsome shade, resembling logwood-black, which it produces.

acid-blue (as'id-blö'), n. Same as cyanol *blue.

—Azo acid-blue, an acid dyestuff of the monoazo type,
similar to Victoria *violet.—Biebrich acid-blue, an acid

coal-tar color of unpublished constitution, which dyes acid-mauve (as'id-mov'), n. An acid coal-tar wool blue in an acid bath.—Fast acid-blue, a coal-tar color prepared by the action of paraphenetidine upon flucture color prepared by the action of paraphenetidine upon flucture color made by sulphonating mauvaniline. acidophil, acidophile (a-sid' $\bar{\phi}$ -fil), a. [NL. dyes wool and silk violet-blue in an acid bath. Also called acidum, an acid, +Gr. $\phi(\lambda)$ cc, loving.] Capable sine 8B.

acid-brown (as'id-broun'), n. An acid coal-tar color of the diazo type, which dyes wool and silk brown in an acid bath.—Aso acid-brown, an acid coal-tar color of unputlished constitution, which dyes wool very level shades of brown in an acid bath.

Special attention has been called by Rosin (24), to the acid-carmoisin (as'id-kär'mō-i-sin), n. One of

the fast reds. See fast red, under red.
acid-cell (as'id-sel), n. One of the cells at the
cardiac extremity of the stomach which secrete

the acid constituent of the gastric juice. acid-cerise (as'id-se-rēz'), n. An impure acid-

magenta. acid-egg (as'id-eg), n. A form of pumping apparatus for handling liquors which would act acidosis (as-i-do'sis), n. [NL. acidum, an acid, chemically upon the moving parts of an ordinary + -osis.] Poisoning by certain acids, such as

piston- or plunger-pump. Chambers which have an elongated spheroidal or egg shape receive the liquor at a low pressure, and, when they are filled, either air or steam under pressure is admitted to them, displacing the liquor through connecting pipes to the desired point.

The pumping of the acids up to the top of the towers is now always performed by means of compressed air, either in theold "acid-eggs," or more economically in "pulsometers."

Encyc. Brit., X.X.V. 44.

d-fast (as'id-fast), a. A literal translation the German "säurfest": applied to a class acid-fast (as'id-fast), a. of bacteria which, when once stained with basic aniline dyes, tenaciously hold the dye on subsequent exposure to acids or alcohol. The most notable representative of this group is the tubercle bacillus, and its recognition in the tissues, the sputum, etc., is essentially based upon this "acid-fastness."

acid-fuchsin (as'id-fök'sin), n. Same as acidmagenta .- Fast acid-fuchsin. Same as fast *acid-

acid-gland (as'id-gland), n. 1. One of certain glands found in the pedipalp Arachnida, secreting an acid liquid.

In connection with the acid-glands he describes a convoluted mass of tubules twisting about on each side of the central or right gland, and succeeded in tracing two of these tubules, apparently opening into the left sac.

Proc. Zool. Soc. London, 1902, II. 171.

2. In entom., one of the glands, found in the honey-bee and other stinging Hymenoptera, which secrete an acid liquid. There are also glands which secrete an alkaline fluid; and the poison of the insect is effective only when both fluids are mixed. A.S. Packard, Text-book of Entom., p. 358.

3. One of the glands of the stomach secreting the acid portion of the gastric inica

the acid portion of the gastric juice.

acid-green, n. 2. An acid dyestuff, a sulphonated triphenylmethane derivative, which dyes wool and silk green in an acid bath.

Acidic oxid. See acid *coxid.

That acidical acid-field acid *coxid.

Acidic oxid. See acid *coxid.

That acidical acid-field acid-field

acidifiant (a-sid'i-fi-ant), a. or renders acid; acidifying. That acidifies

+ -ite.] A term proposed by Von Cotta (1864) for all igneous rocks which are rich in the acid radical silica, as opposed to those which are poor in it, which he called basites.

groups or igneous rocas.

acidize (as'id-īz), v. t.; pret. and pp. acidized,
ppr. acidizing. [acid + -ize.] To treat with
an acid; render acid.—Acidizing process, the
trade-name of a method of vulcanizing india-rubber by
treating it with a solution of calcium or sodium hypochlorite, with or without the addition of an acid.

chlorite, with or without the addition of an acid.

acid-magenta, n.—Axo acid-magenta, an acid color of unpublished constitution, which dyes wool a color resembling that produced by magenta.—Fast acid-magenta, an acid coal-tar color of the monoaxo type. It is prepared by combining diazotized aniline with amido-naphthol-disulphonic acid, and dyes wool and silk a bluish red in an acid bath. Also called fast acid-fuchtin.

acid-maroon (as'id-ma-ron'), n. A crude acid-

acid-mature (as id-mov'), n. An acid coal-tar color made by sulphonating mauvaniline. acidophil, acidophile (a-sid'ō-fil), a. [NL. acidum, an acid, + Gr. $\phi(\lambda o_{\varsigma})$, loving.] Capable of being dyed with acid stains: said of cells or parts of cells.

micro-chemical differentiation of the constituents of the cell body, the Nissl bodies reacting to the basic dyes, while the ground substance is acidophilic in character. F. R. Bailey, in Jour. Exper. Med., Oct. 1, 1901, p. 555.

acidophilous (as-i-dof'i-lus), a. [NL. acidum, acid, + \$\text{\$\text{\$\ell}(\text{\$\text{\$z\$}\cdot\text{\$z\$})}\$ love.] Same as \$acidophil.} acid-orange (as'id-or'\text{\$\text{\$\text{\$a}\$}\text{\$\text{\$j\$}}\), n. Same as orange II (which see, under orange1).

+ -osis.] Poisoning by certain acids, such as uric acid or the fatty acids, formed within the body under various morbid conditions, such as cancer, diabetes, or fever. Also called acid intoxication.

acid-ponceau (as'id-pon-so'), n. An acid coalacid-ponceau (as'id-pon-so'), n. An acid coal-tar color of the monoazo type. It is prepared by combining diazotized \$\textit{\textit{B}}\$-naphthol, and dyes wool and silk scarlet in an acid bath. Also called fast acid-ponceau, acid-scarlet or fast acid-scarlet, and ponceau S.

acid-red (as'id-red'), n. An acid coal-tar color which dyes wool red in an acid bath. Also called fast acid red

called fast acid-red.

acid-rosamine (as'id-roz-am'in), n. An acid coal-tar color of the xanthene type, which dyes wool and silk a bluish red. Also called violamine G.

acid-roseine, acid-rubine (as'id-rō'zē-in, -rō'bin), n. Same as acid-magenta. acid-scarlet (as'id-skār'let), n. Same as *acid-

ponceau. Also called fast acid-scarlet.

acidulation (a-sid-ū-la'shon), n. The act or process of rendering (something) acid, or of imparting an acid or subacid quality to it.

Acidulous water, a natural mineral water containing a notable amount of free carbonic acid.

acid-violet (as"id-vi'o-let), n. A name of two coal-tar colors (fast acid-violet ARR and B) of the xanthene type, of similar composition. They dye wool and silk reddish violet in an acid bath. Also known as violamine R and violamine B.— Fast acid-violet 10 B, an acid coal-tar color of the triphenyl-methane-carbinol type. It dyes wool violet in an acid bath.

acidyl (as'i-dil), n. [acid + ·yl.] Same as *acyl (the preferable form).

acinetarian (as-i-nē-tā'ri-an), a. and n. I. a. Pertaining to or having the characters of the Acinetaria.

II. n. One of the Acinetaria.

acinetic (as-i-net'ik). a. [Gr. a-priv. + κυνητός, moved, movable: see kinetic.] That prevents motion; that deprives of, or causes the loss of,

motion; that deprives of, or causes the loss of, voluntary motion.

acinotubular (as'i-nō-tū'bū-lār), a. [NL. acinus, acinus, + L. tubulus, tubule.] Possessing both acini and tubules: said of certain glands.

Acinous cancer. See *cancer.

acipenserin (as-i-pen'se-rin), n. [Acipenser (see def.) + -in².] A protamin found in the testicles of a fish, Acipenser stellatus.

Aciprion (a-sip'ri-on), n. [NL., < (†) Gr. ἀκίς, a point, + πρίων, a saw.] A genus of true lizards or Lacertilia of Miocene age.

acknowledgeable (ak-nol'ej-a-bl), a. [ack-nowledge + -able.] That can be acknowledged, admitted, or recognized; recognizable; noticeable.

acknowledgedly (ak-nol'ejd-li). adv. [ack nowledged + -ly.] Admittedly; confessedly. acleistons. See *aclistons.

acli (a'kli), n. [Tagalog and Pampanga acli.]
A name in the Philippine Islands of Xylia
xylocarpa, a valuable timber-tree. The wood
is strong and durable and does not take fire easily. It
is used in boat-building and for posts and beams of
houses. The bark is saponaceous. See pyengadu. Also
ach

aclistous, acleistous (a-kli'stus), a. [Gr. ἀκ'ειστος, not closed, not fastened, ζ ά- priv. + κλειστός, closed: see clistocarp, etc.] Not closed: used in crystallography to designate certain open forms of hemimorphic type; also, certain crystalline groups characterized by these forms. See *form, 2, and *symmetry, 6.

aclythrophytum (ak-li-throf'i-tum), n.; pl. aclythrophyta (-tä). [NL., (Gr. a- priv. + κλεί-

θρον, a bar, + φντόν, a plant.] In bot., a plant is, one destitute of a pericarp.

acmatic (ak-mat'ik), a. [Irreg. $< acme + -atic^2$.

The normal adj. is acmic.] Of or pertaining to an acme. [Rare.] Hyatt, Biol. Lect., p. 141.

acmic (ak'mik), a. [acm(e) + -ic.] Of or pertaining to an acme, specifically to the acme of a genetic series of organisms, or the period when according (ak'ō-rint), n. [accor(us) + -in².] A name according (ak'ō-rint), n. [accor(us) + -in².] A name genetic series of organisms, or the period when it is richest in genera and species. [Rare.]

Amer. Jour. Sci., Oct., 1903, p. 300.

acmite-trachyte (ak'mit-trak'īt), n. See

acmonoid (ak'mō-noid), a. [Gr. ἀκμων, an anvil, + εἰδος, form.] In anthrop., noting a type of cranium high, long, with straight sides, a slight swelling of the parietal protuberances situated very far back, and the occipital resembling a quadrangular pyramid leaning slightly on its cranial base. G. Sergi, Var. of the Human cranial base. Species, p. 42.

Acne agminata, a form of acne in which the lesions are grouped together, forming patches of various sizes.—
Acne indurata, a form of acne in which the papules are hard and shot-like, deep-seated, and inflamed, but do not always go on to suppuration.—Acne necrotica, a form of acne, affecting chiefly the forehead, in which the papules break down, leaving depressed scars like pockmarks.—Tar acne, a papular eruption of the skin caused by the external application of tar in susceptible persons.

acneform (ak'nē-fôrm), a. [Irreg. < NL. acne, acne, + forma, form.] Resembling acne in appearance.

appearance. acnemia (ak-nē'mi-š), n. [NL., < Gr. ἀκνημος, without the calf of the leg. < ά- priv. + κνήμη, calf of the leg.] Absence or imperfect formation of the leg.

tion of the legs.

acceantherin (ak-ō-kan'the-rin), n. [Acceanthera (see def.) + -in².] A poisonous glucoside, C₃₂H₅₀O₁₂, obtained from an African arrow-poison which is prepared from Acceanthera Abyssinica. In physiological action it resembles the glucosides of Digitalis.

Accela, n. pl. 2. A suborder of Rhabdocælida in which the cavity of the enteron is obliterated by the concrescence of its wells, the mouth leading through a simple phayers directly into

ated by the concrescence of its walls, the mouth leading through a simple pharynx directly into the digestive syncetium. It contains the families Porporidæ and Aphanostomidæ.

Accelomata, n. pl. 2. The collenterates and sponges considered collectively as animals without a true colloma, or body-cavity, as distinct from the enteron or digestive as vity. inct from the enteron or digestive cavity, as distinct from the enteron or digestive cavity. Many.soologists regard the Metazoa as consisting of two great primary groups: the Acalomata, or sponges and colenterates, and the Colomata, or all the remaining Metazoa.

The cavities of the Acciomata, except certain ectodermal pits, are in all cases continuations of the primary central cavity lined by endoderm, and no cavities exist lined by mesoderm comparable to a coslom.

A. E. Shipley, Zoöl. of Invertebrates, p. 36.

acoin (ak'ō-in), n. 1. A trade-name for hydro-chlorid of diparanisylmonophenetylguanidin, a local anesthetic introduced in 1899.—2. A general name given to a series of derivatives of guanidin similar to the above.

acolous (ak'ō-lus), a. [Gr. ἀκωλος, limbless, ζ ά- priv. + κώλον, limb, member.] In teratol., a- priv. + κῶλο
 without limbs.

acomia (a-kô'mi-ä), n. [NL., 〈Gr. ἀκομος, without hair, 〈 ά- priv. + κόμη, hair: see coma¹.]

Same as alopecia.

aconate (ak'ō-nāt), n. [acon(ic) + -ate¹.] A
salt derived from aconic acid.

acone (ā'kōn), a. [a-18 + cone.] In entom.,

lacking the cone or crystalline lens. In insects having acone eyes the cone or refracting body is represented only by the four primitive cone-cells. Distinguished from *eucone and *pseudocone.

Acone eyes, where the cone or refracting body is wanting, but is represented by the four primitive cone-cells.

A. S. Packard, Text-book of Entom., p. 252.

aconic (a-kon'ik), a. [acon(ite) + -ic.] Derived from aconite: distinguished in chemistry from aconitic.—Aconic acid, an acid formed by boiling iotadibrompyrotartaric acid with water or with a solution of sodium carbonate. It is easily soluble in water and melts at 164°C.

aconital (ak'ō-nī'tal), a. [aconite + -al.]

Characteristic of aconite: as, aconital bitter-TARR

aconite, n. 2. An extract or tincture of this

plant, used as a poison and as a medicine.

acoprosis (ak 'o-pro'sis), n. [acopr(ous) +
-osis.] Absence of fecal matter from the intes-

acoprous (a-kop'rus), a. [Gr. ἀκοπρος, with no or little excrement, (a- priv. + κόπρος, excrement.] Without fecal matter in the bowels; characterized by acoprosis.

acorin (ak'ō-rin), n. $[acor(us) + -in^2]$.] A name given to a substance, formerly supposed to be a glucoside, obtained from Acorus Calamus. It is of uncertain composition and probably a mixture.

acormus (a-kôr'mus), n. [Gr. a-priv. + κορμός, trunk.] In teratol., a monster with a head and an undeveloped napiform body, without ex-

acorn-gall (ā'kôrn-gâl'), n. See gall's and knoppe

acosmic (a-koz'mik), a. [a-18 + cosmic.] Sundered; disordered; confused; inharmonious.

Some who have . . . felt utterly lost in this charmed role of agnosticism . . . despair of building up again se world they have lost out of its account elements.

G. S. Hall, Adolescence, II. 587.

acospore (ak'ō-spōr), n. [Gr. ἀκή, point, + σπορά, seed.] In phytogeog., a plant (mostly of the grasses) whose fruit is provided with awns to assist dissemination.

Acotylea (a-kot-i-le a), n. pl. [NL.. < Gr. a-priv. + κοτύλη, cup, socket.] A group of polyclade Turbellaria without suckers and with the mouth in the middle of the body or behind it. It includes the families Planoceridæ, Lepto-planidæ, and Cestoplanidæ. acoulation (a-kö-lā'shon), n. [Irreg. \langle Gr.

It includes the families Planoceridæ, Leptoplanidæ, and Cestoplanidæ.

acoulation (a - kö - lā ' shon), n. [Irreg. < Gr. aκρίβκα, < aκριβκα, accurate, precise.] Literal aκρίβκι), hear, + L. latio(n-), bearing.] The telephonic transmission or reproduction of sounds, with increase of intensity, by means of a combination of microphone and telephone.

Also spelled akoulation.

acoupa (a-kö'pä), n. [Pg.] A kind of weak-fish, Cynoscion acoupa.

acousma (a-kös'pä), n.; pl. acousmata (-tä).

[Gr. ἀκουσμα, a thing heard, < ἀκούειν, hear.] 1.

pl. Things heard or received on authority and tenwyl, the ninth tribe of grasshoppers, of the

acoupa (a-kö'pä), n. [Pg.] A kind of weak-

acoupa (a-ko'pā), n. [Pg.] A kind of weak-fish, Cynoscion acoupa.

acousma (a-kōs'mā), n.; pl. acousmata (-tā).
[Gr. ἀκονομα, a thing heard, ⟨άκούειν, hear.] '1.
pl. Things heard or received on authority and without further inquiry or explanation, as among the acousmatici or probationary disciples of Pythagoras.—2. A form of auditory hallucination. Baldwin, Dict. of Philos. and Psychol. Psychol.

Psychol.

Acoustic absorption. See *absorption.—Acoustic agraphia. See *agraphia.—Acoustic disk, an instrument for demonstrating the principles of Savart's wheel, the siren, and Newton's disk.—Acoustic organ. Same as organ of Cort.—Acoustic orifice, in endom., an orifice for the admission of air to the acoustic apparatus, as the orifice caudad of the prothorax in the Locustide.—Acoustic penetration, the carrying power of articulate sound measured by the distance in meters at which, under defined and standard conditions, it is still audible.—Acoustic resonance. See resonance, 2.—Acoustic shadow. See *shadow.—Acoustic strim. Same as strim acusticm (which see, under stria).—Acoustic tetanus, muscular contraction induced experimentally by the application of a faradic current, the number of interruptions being measured by the pitch of the sound caused by the vibrations.—Acoustic tubes, a set of tubes designed to illustrate the effect of different length and size on pitch.

acousticolateral (a.-kös'ti-kō-lat'g-ral), a.

acousticolateral (a-kös'ti-kō-lat'e-ral), a. Having the organs of hearing arranged later-

acoustometer (a-kös-tom'e-tèr), n. [acoust(ic) + Gr. $\mu\ell\tau\rho\sigma\nu$, a measure.] An instrument for determining the acoustic properties of a room or other inclosure.

acquaint₁, n. An acquaintance. Chaucer. acquiescence, n. 3. Originally, but now rarely, contentment: satisfaction. In the ethics of Spinoza, acquiescence in one's very self is an ignoble self-satisfaction; but acquiescence of the soul in the knowledge of God is the highest result of virtue.

Acquired character. See *character.
acquisitiveness, n. 3. In psychol.: (a) The
proprietary or collecting instinct. W. James,
Princ. of Psychol., II. 422, 679. (b) The capacity for learning or for intellectual acquisition. Acquittal in law, a judicial act which, in discharging one person from the accusation of a crime, operates to discharge all others who may be accused as accessories in the commission of the same crime: distinguished from acquittal in fact.

Acracy (ak'rā-si), n. [Gr. ά- priv. + -κρατία, κρατείν, to rule.] The extremest form of physiocracy, which reduces all government to the action of so-called natural laws and amounts to anarchism. L. F. Ward, Psychic Factors of Civilization, p. 319.

Acræides (a-krē'i-dēz), n. pl. [NL. (perhaps erroneously transferred, as if NL., from a F.

form *acréides) for Acræidæ, < Acræa + -idæ.] A group of butterflies corresponding to the Acræinæ. Acræides is the form used by most English entomologists.

acramphibryous (ak-ram-fib'ri-us), a. [Gr. ἀκρος, at the end, + ἀμφί, on both sides, + βρύον, a flower or blossom, + -ous.] In bot.,

producing lateral as well as apical buds. Jackson, Glossary.

Acrastales (a-krā-si-ā'lēz), n. pl. [NL., < Gr. axpacia, bad mixture, + -ales.] The lowest of the three orders of Myxomyceles, consisting of two small families of imperfectly known amegination. boid organisms, some of which are found in old manure.
acre-foot (ā'kèr-fût'), n. A unit of volume of

water used in irrigation, equivalent to one acre covered one foot in depth, or 43,560 cubic feet. Water flowing at the rate of one cubic foot a second for 24 hours will cover an acre to a depth of 1.98 feet. In common usage, a cubic foot per second, or second-foot, for 24 hours equals 2 acre feet.

acreophagist, akreophagist (ak-re-of'a-jist), n. [acreophag-y + -ist.] One who habitually abstains from eating meat; a vegetarian.

abstains from eating meat; a vegetarian.

acreophagy, akreophagy (ak-rē-of'a-ji), n.

[Gr. ā- priv. + κρεοφαγία, eating of flesh, < κρεοφάγος, flesh-eating: see creophagous.] A habitual abstention from meat-eating.

acrepid (a-krep'id), a. [Gr. ā- priv. + κρηπίς, a boot, a foundation.] Having no crepis or foundation-spicule: specifically applied, in sponge-spicules, to desmas in which the crepis is atrophied. is atrophied.

tenwyl, the ninth tribe of grasshoppers, of the family Acrididæ, typified by the genus Acridium. acridine (ak'ri-din), n. [acrid (†) + -ine².] An organic compound derived from anthracene by replacing one of its CH-groups with a nitrogen atom, its empirical formula being $C_{14}H_{9}N$. gen atom, its empirical rounding of the important in the color industry.—Acridine color. See *color.—Acridine orange, red, etc. See *corange1, *red1, etc.

acridinic (ak-ri-din'ik), a. [acridine + -ic.] Derived from acridine. - Acridinic acid. Same as

acridioid (a-krid'i-oid), a. Having the characteristics or appearance of grasshoppers or locusts of the family Acrididæ.

acridone (ak'ri-dōn), n. [acrid(ine) + -one.]

CO

A compound, $C_6H_4 \lt C_6H_4$, formed by the

oxidation of acridine. It melts at 354° C.

acridyl (ak'ri-dil), n. [acrid(ine) + -yl.] The radical or group C₁₃H₈N, derived from *acridine (which see).

acrinyl (ak-ri'nil), n. In chem., a hypothetical radical, C₆H₄.OH.CH₂, of which the sulphocyanide (C₆H₄.OH.CH₂.NCS) is the yellow, pungent, vesicating fixed oil formed by the action of the enzyme myrosin upon the glucoside sinalbin contained in white mustard seed, **Rraysica alba** Brassica alba.

acrite² (ak'rit), n. [L. acris, sharp, + -ite².]
The inactive mannite formed by the reduction of acrose or of inactive mannose.

acroæsthesia (ak "ro-es-thē'si-ä), n. $\delta k \rho \rho \nu$, a terminal point, an extremity, $+ a i \delta \eta \rho \sigma \mu$, perception, sensation. The second sense is not justified by the meaning of the Gr. $\delta \kappa \rho \rho \nu$.]

1. Pain in the hands or feet.—2. Excessive sensibility; hyperæsthesis.

acroasphyxia (ak'rō-as-fik'si-ii), n. [NL., < Gr. ἀκρος, at the end, + ἀσφυξία, asphyxia.] Arrest of the circulation of the blood in the dis-

tal portion of the extremities.

acroblast (ak'rō-blast), n. [Gr. ἀκρον, apex, + βλαστός, germ.] In embryol., that portion of the embryonic germ-layers in vertebrates which gives rise to the blood and connective tissue. the mesonohyme tissue; the mesenchyme.

acroblastesis (ak-rō-blas-tē'sis), n. [NL., \langle Gr. $\dot{a}\kappa\rho\sigma\nu$, apex, $+\beta\lambda\alpha\sigma\tau\dot{o}c$, bud, germ, spore.] In bot., a condition in lichens in which the germtube proceeds from the end of a spore.

acroblastic (ak-rō-blas'tik), a. In bot., arising from a terminal bud: applied to branches of the inflorescence. Celakovsky.

acrocarp (ak'rō-kārp), n. [acrocarp(ous).] An acrocarpous plant: applied mainly to the Acrocarpi

acrocephalous (ak-ro-sef'a-lus), a. Same as

acroceroid (ak-ros'e-roid), a. Having the

characteristics or appearance of a moth of the family Acroceridæ. Acrochilus(ak-rō-kī'lus),n. [NL., Gr. ἀκρον, the farthest point, +
 χείλος, lip.] A genus of chubs
 found in the Columbia river, noted for the bony sheath to the jaws: hence called hardmouth or chisel-mouth jack.

acrocoracoid (ak-rō-kor'a-koid),

n. [Gr. acpos, at the end, + coracoid.] In ornith., a process or projection from the distal end and internal face of the coracoid. to which the clavicle is usually

acredontism (ak'rō-don'tizm), n. [acrodont + -ism.] The property

of being acrodont, or of having teeth ankylosed to the cutting edge of the jaws. [Rare.] acrodrome (ak'rō-drōm), a. Same as *acrod-

acrodromous (a-krod'rō-mus), a. [Gr. ἀκρον, point, + -δρομος, < δραμείν, run.] In bot., running to a point: said of a nervation in which the nerves all terminate in or point to the apex of the leaf. See nervation (a) (4) and fig. 4.

Acrodus (ak'rō-dus), n. [NL., $\langle Gr. \dot{\alpha}\kappa\rho\sigma_{c}, at$ the end, $+\dot{\delta}\delta\dot{\omega}c_{c}$, tooth.] A.genus of cestraciont sharks known chiefly by the pavement-teeth. They occur in the Jurassic and Cretaceous formations.

acrogamous (a-krog'a-mus), a. [Gr. ἀκρος, at the end, + γάμος, marriage.] In bot., producing the ovules at the summit of the embryosac: the usual condition in angiosperms. Tieahem.

acrogamy (a-krog'a-mi), n. [acrogam-ous + -y³.] The state of being acrogamous.
acrogonidium (ak'rō-gō-nid'i-um), n.; pl.
acrogonidia (-ā). [Gr. ἀκρος, at the end, + go-nidium.] A gonidium formed at the terminal end of a fertile hypha.

end of a fertile hypna.

Acrogynæ (a-kroj'i-nē), n. pl. [NL., < Gr. ἀκρον, apex, + γυνή, female.] In bot., a suborder of cryptogamic plants of the order Jungermanniales, class Hepaticæ, in which the archegonia are formed from or near the apical cell. See

**Torongame*

bearing nematocysts or stinging-cens.

acroscopic (ak-rō-skop'ik), a. [Gr. ἀκρον, apex, + σκοπείν, see, + -ic.] In bot., looking toward (that is, on the side toward) the apex.

acrosco (ak'rōs), n. [L. acris, sharp, + -ose.] A sugar which has been to be identical with i-fruc-

acrogynous (a-kroj'i-nus), a. [As Acrogynæ + -ous.] In bot., having the archegonia from or near the apical cell, as in the Acrogynæ. Acrolepis (ak-rol'ē-pis), n. [NL., ζ Gr. ἀκρος, at the end, + λεπίς, scale.] A genus of ganoid fishes from the Carboniferous and Permian

acrologue (ak'rō-log), n. [Gr. $\dot{a}\kappa\rho\sigma$, at the beginning or end, $+\lambda\dot{o}/\sigma$, word.] An acrologic name, that is, a letter-name beginning with that letter; an alphabetic name formed on or exhibiting the principle of acrology, as the Hebrew aleph beginning with a, both with b, etc. See the extract.

The alphabetic names, considered as pictorial acrologues, may therefore in some cases receive an easier explanation from the Hieratic characters than from the Semitic letters as we have them.

Isaac Taylor, The Alphabet, I. 169.

acromegalia (ak'rō-me-gā'li-ā), n. Same as **★**acromeyaly.

acromegalic (ak'ro-me-gal'ik), a. and n. [As acromegaly + -ic.] I. a. Of the nature of or relating to acromegaly.

II. n. A victim of the complaint known as acromegaly.

acromegaly (ak-rō-meg'a-li), n. [Gr. ἀκρον, extremity, +*μεγαλία, ζ μέγας (μεγαλ-), great.] A disease characterized by hypertrophy of the bones and soft tissues of the face and extremities. It is thought to be due, possibly, to a morbid change in the internal secretion of the pituitary body, since this structure is also enlarged. Most of the so-called 'giants' owe their size to this disorder. Also called Marie's disease.

acromerostich (ak-rō-mer'ō-stik), n. [Gr. ἀκρος, at the beginning or end, + μέρος, part, + στίχος, line.] A short poem or stanza containing several acrostics, as in the accompanying ex-

ample, in which the name 'Jesus' occurs four

I nter cuncta micans I gniti sidera cœl I,
Expellit tenebras E toto Phœbus ut orb E;
Sic cæscas removet IESUS caliginis umbra S
V ivificansque simul, V ero præcordia mot U
S olem Justitiæ se S e probat esse beati S.

N. and Q., Feb. 26, 1887.

acromion, n. 2. In ichth., same as supraclavicle; a shoulder-girdle bone above the clavicle. acromiosternal (a-krō'mi-ō-ster'nal), a. Relating to the acromion process and the sternum.

acronus (ak'rō-nus), n.; pl. acroni (-nī). [NL., ⟨Gr. ἀκρον, apex, summit.] In bot., a termi-nal ovary; that is, one without a basal disk. Necker.

Acronycta (ak-rō-nik'tā), n. [NL. (Ochsenheimer, 1816, as Acronicta; Treitschke, 1825, as Acronycta), Gr. ἀκρόνυκτος, of nightfall: see acronyctous.] A prominent and very large genus of noetuid moths, synonymous with Apatela (Hübner, 1810).

(Auther, 1819).

acroparæsthesia (ak″rō-par-es-thē'si-ā), n.

[Gr. ἀκρον, extremity, +παρὰ, beside, + αἰσθησις,
perception, sensation (see paræsthesia). See
remark under *acroæsthesia.] 1. Paræsthesia
of the hands or feet.—2. Excessive paræsthesia, or perversion of normal sensation.

acroparalysis (ak'rō-pa-ral'i-sis), n. [Gr. ἀκρον, extremity, + παράλους, paralysis.] Paralysis which affects the extremities only.

acropathy (a-krop's-thi), n. [Gr. $\delta\kappa\rho\sigma\nu$, extertile front. tremity, $+\pi\delta\theta\sigma$ s, disease.] Disease of the acrostichoid (a-kros'ti-koid), a. Pertaining tremity, + 7

Acrophalli (ak-rō-fal'i), n. pl. [NL.. \langle Gr. akpos, at the extremity, $+ \phi \alpha \lambda \lambda o s$, phallus.] A group of nemathelminths in which the cloacal aperture is at almost the extreme end of the body on the ventral side.

acrophobia (ak-rō-fō'bi-ḥ), n. [Gr. ἀκρον, top-most point, +φοβείν, fear.] Morbid fear of great heights.

acrophonic (ak-rǫ-fon'ik), a. [Gr. ἀκρον, extremity, +φωή, sound.] Same as acrophonetic. acropolitan (ak-rō-pol'i-tan), a. Of or pertaining to the acropolis or citadel of an ancient Grecian city, especially that of Athens.

acrorhagus (ak-rō-rā'gus), n.; pl. acrorhagi (-jī). [NL., prop. "acrorhagus, $\langle Gr. a\kappa\rho\sigma_c, at$ the end, $+\dot{\rho}a\xi(\dot{\rho}a\gamma-)$, a grape, a berry.] One of the marginal tubercles on the peristome of Actinia bearing nematocysts or stinging-cells.

shown to be identical with i-frucshown to be identical with t-fructose. It has been prepared synthetically in several ways, especially by the action of a dilute solution of sodium hydroxid on glycerol aldehyde. It is of special interest as being the first augar containing six carbon atoms to be prepared synthetically. It was also used for the synthesis of d-glucose.

acrosome (ak'rō-sōm), n. [Gr. ἀκρον, apex, + σωμα, body.] In cytol., the body which forms the extreme anterior portion of the spermetozoon. Ven.

rior portion of the spermatozoon. Von Lenhossek, 1897. In the spermatozoa of some animals the acrosome is spur- or hookshaped and is thus adapted for boring its way

into the esg. Acrospeira (ak-rō-spī'rā), n. [NL. (Berkeley and Broome, 1857], \langle Gr. $\dot{\alpha}\kappa\rho\sigma\nu$, tip, $+\sigma\pi\epsilon\bar{\imath}\rho\alpha$, coil.] A monotypic genus of hyphomycetous fungi having erect branched sporophores spirally bent at the tips, and bearing simple spherical, black, rough spores. A. mirabilis sometimes destroys the ripe fruit of Spanish chestput (Castura) fruit of Spanish chestnuts (Castanea).

fruit of Spanish chestnuts (*castanea*).

acrosperm (ak' τρ-sperm), n. [Gr.

ακρον, tip, + σπέρμα, seed.] In bot.,

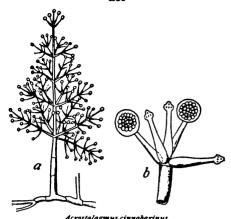
an angiosperm of the group or class
which are supposed by Treub to have Diagram of
been originally fertilized through the

acrosperma
below instead of the micronyla—tozofo. chalaza instead of the micropyle — tozoon. the Acrospermæ. Compare *pleuro- a. body,o

sperm.

Acrostalagmus (ak'rō-sta-lag'mus), knoi-s, nucleus : c, end-nu. [NL. (Corda, 1838), referring to die piece: c, the drop-like conidio at the tips of envelop of the conidiophores, < Gr. ἀκρον, tip, axia fia-t σταλαγμός, a drop.] A genus of ment: r, end-hyphomycetous fungi having erect verticillate-branched conidiophores and simple conidio collected in globular messes at their snerm.

conidia collected in globular masses at their



a, a branching conidiophore, enlarged; δ, one of the branchlets, showing the globular masses of conidia, greatly magnified.

A. cinnabarinus is a common species oc-

tips. A. cinabarinus is a common species oc-curring on decaying vegetable matter. Acrostichese (a-kros-tik'ē-ē), n. pl. [NL., < Acrostichum + -eæ.] A tribe of polypodia-ceous ferns, typified by the genus Acrostichum. It comprises genera of varying habit and venation but readily associated by similarity in fructification, the naked sporangia overspreading at least a portion of the under surface of the wholly or partially metamorphosed fertile frond.

to the fern genus Acrostichum, or to the tribe Acrostichese

Acrostichem.

Acrostichum (a-kros'ti-kum), n. [NL., so called in allusion to the 'acrostic' appearance of the spores: see acrostic.] A genus of tropical ferns, largely American. The species are diverse, and are sometimes referred to other genera. In general they are long-leaved, rather coarse species, with mostly simple or pinnate fronds. No less than twenty species have been advertised in American horticultural catalogues. They are treated as greenhouse plants.

Acrotidæs (a-krot'i-dē), n. pl. [Acrotus + -idæ.] A family of deep-sea fishes remotely allied to the mackerels: notable for the very soft, rag-like body and the absence of spines and ventral fins.

Acrotinæ (ak-rō-tī'nē), n. pl. [Acrotus + -inæ.]

and ventral fins.

Acrotinæ (ak-rō-tī'nē), n. pl. [Acrotus + -inæ.]

The subfamily of ragfishes, of the family Icosteidæ, typified by Acrotus willoughbyi.

acrotonous (a-krot'ō-nus), a. [Κ Gr. ἀκρον, apex,
+ τόνος, cord.] In bot., extending to the apex:
applied to the tissue of the pollen-sac of orchids when prolonged to the upper end of the anther.

Acrotreta (ak-rō-trē'tā), n. [NL., < Gr. ἀκρος, at the top, + τρητός, bored through, perforated.] A genus of extinct brachiopods with a flat dorsal valve and a subconical ventral valve per-

sal valve and a succonical ventral valve perforated at the top: from the Cambrian and Silurian beds of Europe and America.

Acrotretidæ(ak-rō-trē'ti-dē), n. pl. [NL., < Acrotreta + -idæ.] A family of inarticulate brachiopods of early Paleozoic age, embracing the genera Acrotreta, Conotreta, Acrothele, and Linnarssonia.

Acrotus (ak'rō-tus), n. [NL., given as from Acrous (ak'rō-tus), n. [NL., given as from Gr. " $\dot{a}\kappa\rho\sigma\sigma\sigma_{\varsigma}$, without oars (ventral fins)"; but there is no such form. Cf. Gr. $\dot{a}\kappa\rho\sigma\sigma\sigma_{\varsigma}$, without noise, $\langle \dot{a}$ - priv. $+ \kappa\rho\delta\tau\sigma_{\varsigma}$, a rattling, a clapping.] A genus of deep-sea fishes represented by \dot{A} . willoughbyi. This species, once taken on the coast of Washington, is usually placed in the family $\dot{A}\sigma\tau\sigma\tau^{\dagger}$. The $\dot{A}\sigma\tau^{\dagger}$ is $\dot{A}\sigma\tau^{\dagger}$.

coast of Washington, is usually placed in the family Acrotidæ, next to Icostcidæ.

2Ct, n.—Ballot Act. Same as Reform Bill (which see, in Cyclopedia of Names).— Carpy Act, an act of Congress donating one million acres of desert land to each State containing such land, upon condition that the land donated be reclaimed by irrigation at the expense of the State.—Desert Act. Same as Carcy *Act.—Hatch Act, an act of the United States Congress in 1887 which gave to each State and Territory \$15,000 a year for the establishment of an agricultural experiment station (see *agricultural), to be a department of the land-grant college (see Morrill *Act), except where a separate station already existed. The fund is maintained by an annual appropriation.—Morrill Act. (a) An act of the United States Congress in 1862 which provided for the maintenance of at least one college in each State, the chief object of which should be instruction in the branches of learning related to agriculture and the mechanic arts, though other scientific and classical studies were not excluded and instruction in military tactics was included. For this purpose a grant was made of \$0,000 acres of public land for each senator and representative, the proceeds of sale to be invested as an endowment. (b) A second act (1890) which provided for an annual appropriation, to be increased in ten years from \$16,000 to a permanent sum of \$25,000 from the proceeds of the sale of public land, for the more complete endowment of these institutions. This income could be applied only to instruction (with facilities) in agriculture, the mechanic arts, the English

language, and other branches directly related to industrial life.—Scalp Act, in the United States, a statute which provides for the payment by a State of a bounty or reward for the destruction of certain animals deemed to be injurious to agriculture. It is usually provided that the reward shall be paid upon the production of the heads or scalps of the animals destroyed.—Sherman Act, an act of Congress of July 14, 1890, directing the secretary of the treasury to purchase monthly 4,500,000 ounces of fine silver builton, or so much thereof as might be offered, at the market rate, not to exceed \$1 for \$71½ grains of fine silver. It was repealed in 1898.

Actiad (ak'ti-ad), n. [Gr. 'Ακτία, the Actian games, + -ad¹. Cf. Olympiad.] The space of four Actian years; the four years intervening

games, $+ -ad^1$. Cf. Olympiad.] The space of four Actian years; the four years intervening between one celebration of the Actian games

and the next. See Actian.
actinally (ak'ti-nal-i), adv. Toward, or having

actinally (ak'ti-nai-i), act. Toward, or naving reference to, the actinal or oral side of an echinoderm; orally.

Actinaria (ak-ti-nā'ri-ā), n. pl. [NL., neut. pl. of *actinarius, (Gr. ἀκτίς (ἀκτίν-), a ray.] The flesh-corals, a suborder of Anthozoa, usually with 6 (or a multiple of 6) simple tentacles and no skeleton. It includes Actinia, Adamsia, Ce-

rianthus, and other genera.

actine (ak'tin), n. A ray of a monaxon or rodlike megasclere of a sponge.

actinellidan (ak-ti-nel'i-dan), a. and n. a. Pertaining to or having the characters of the Actinellida.

II. n. One of the Actinellida.

acting, p. a. 2. Performing, or used in performing, stage-plays.—Acting edition (of a play).
one which contains full stage-directions for the information of the players.

II. n. The profession of an actor or player.
actinian (ak-tin'i-an), a. and n. [Actinia +

I. a. Pertaining to or resembling an actinia.

II. n. An animal of the family Actiniidæ

or of the order Actinidea.

actiniarian (ak-tin-i-ā'ri-an), a. and n. I. a.

Pertaining to or having the characters of the Actiniario

II. n. One of the Actiniaria.

Actinic *focus, *light, *photometer. See the nouns.

— Actinic plane a plane of maximum actinic activity in a system of standing light waves. According to Wiener, such planes pass through the loops of the system, and at right angles to the path of the waves.— Actinic *ray, *spectrum. See the nouns.

actinicism (ak-tin'i-sizm), n. [actinic + -ism.] Same as actinism.

actinicity (ak-ti-nis'i-ti), n. Chemical or photographic activity; a property of rays of the spectrum by which chemical reactions are pro-

duced or promoted. Same as actinism.

Actinidia (ak-ti-nid'i-ā), n. [NL., ζ Gr. ἀκτίς (ἀκτίν-), a ray, + dim. -ιδιον.] A genus of twining shrubs, of about eight species, natives of eastern Asia and members of the family Ternetomicaes. stromiaces. About half of the species are in cultiva-tion for covering arbors and porches, A. arguta being the most common species. The leaves are large and ovate, and are more or less toothed or serrate; the flowers are small and whitish. The species are hardy and useful climbers.

Actiniidea (ak-tin-i-id'ē-ā), n. pl. [NL., irreg. (Actinia + id-ea.] An order of zoantharian Anthozoa consisting of colonial or solitary Zoantharia cryptoparamera, with or without a skeleton The mesenteries are arranged in cycles (each cycle usually consisting of 12 couples of equal size), and the tentacles equal the mesenteries in number. It contains the Actinicide, Corollimorphide, Hyanthide, Liponemide, Amphianthide, Dendractide, and Thalassian-

actinine (ak'ti-nin), a. [Actinia + -ine1.]

actinioid (ak-tin'i-oid), a. [Actinia + -oid.] Re-

sembling a sea-anemone or actinian.

Actiniomorpha (ak-tin'i-ō-môr'fä), n. pl.

[NL., < Actinia + Gr. μορφή, form.] A subclass of Anthozoa including Actinaria, Antipa-

tharia, and Madreporaria.

actinism, n. 3. In bot., the chemical action of sunlight on plants.

Actinistia (ak-ti-nis'ti-ä), n. pl. [NL., < Gr. artic, a ray, + loriou, a web (?).] A suborder of extinct ganoid fishes ranging from the Car-

of extinct ganoid fishes ranging from the Carboniferous to the Jurassic. They are characterized among other things by having the interspinous bones of each dorsal and anal fin fused into a single piece.

actinium, n. 1. This supposed chemical element, of a metallic character, was announced by Phipson in 1881 as obtained from a commercial white pigment consisting mainly of oxid and sulphid of zinc with sulphate of barium. It was described as forming a white sulphid which became brown and finally black under the action of the sun's rays, the blackening being prevented by screening the surface with a plate of glass, and removed when the darkened surface was exposed to air in the absence of light.

light.
2. A radioactive substance found by Debierne

to exist in the residues remaining from pitchblende after the extraction of the uranium: a new radio-element closely related in its chemical behavior to lanthanum, from which it has not as yet been found possible to separate it not as yet been found possible to separate it completely. It has not been obtained in a state of sufficient purity to give any characteristic spectrum and is identified and recognized entirely by its radioactive properties. Actinium itself has not been found to emit a radiation but undergoes disintegration with the formation of a series of radioactive products known as radioactinum, actinium-X, actinium emanation, actinium-A, actinium emanation, actinium-A, actinium enantion, actinium-A, actinium-B, and actinium-C. Of these, the first, second, third, and fifth emit alpha-rays, the fourth beta-rays, and the sixth beta- and gamma-rays (see *lobscure rays). These products are present in all ordinary actinium preparations. The occurrence of actinium indicates that it is a disintegration product of uranium, although its genetic relationship to ionium and radium has not yet been established. Actinium is identical with the emanium of Giesel. See *memation.

M. and Mme. Curie, with the collaboration of MM.

M. and Mme. Curie, with the collaboration of MM. Bemont and Debierne, succeeded in establishing the existence of three new radio-active substances in pitch-blende: radium associated with the barium in the mineral, and closely resembling it in its chemical properties; polonium associated with the bismuth, and actinium with the thorium.

J. J. Thomson, Elect and Matter, p. 141. Actinium rays, Becquerel rays emitted by the disintegration products of actinium. See obscure *rays.

actinoblast (ak-tin'ō-blast), n. [Gr. ἀκτίς (ἀκτίν-), ray, + βλαστός, germ.] In sponges, the mother-cell, in which is formed each ray of a radiate spicule; a scleroblast.

actinobranch (ak-tin'ō-brank), n. [NL. actinobranchia, ⟨Gr. ἀκτίς (ἀκτυ-), ray, + branchia,
gill.] One of the gill-like vascular organs
found in certain anthozoans.

actinobranchia (ak'ti-nō-brang'ki-ä), n.; pl. actinobranchiæ (-ē). [NL.] Same as *actino-

actinocarp (ak-tin'ō-kärp), n. [Gr. ἀκτίς (ἀκτιν-), ray, + καρπός, fruit (carpel).] A plant having the carpels or placentas radiating from the central axis of the fruit.

actinocarpic (ak"ti-nō-kär'pik), a. In bot., of the nature of an actinocarp.

Actinocephalidæ (ak"ti-nō-se-fal'i-dē), n. pl. Actinocepnalidæ (ak"ti-no-se-fal'í-dē), n. pl. [NL., < Actinocephalus + -idæ.] A family of cephaline Gregarinida. The sporonts are always solitary; epimerite symmetric, simple or with appendages; cysts dehiscing by simple rupture; spores navicular, biconic, or cylindric, with conic extremities. They are mostly parasites in the alimentary canal of carnivorous arthropods. The family contains Actinocephalus, Anthorhynchus, Stictospora, Schneideria, and other genera.

Actinocephalus (ak'ti-nō-sef'a-lus), n. [NL., Gr. ἀκτίς (ἀκτιν-), ray, + κεφαλή, head.] The typical genus of the family Actinocephalidæ. Stein, 1848.

Actinoceras (ak-ti-nos'e-ras), n. [NL., < Gr. άκτίς (άκτιν-), ray, + κέρας, horn.] A genus of nautiloid cephalopods typical of the family Actinoceratidæ.

actinoceratid (ak"ti-nō-ser'a-tid), a.

I. a. Pertaining to the Actinoceratidæ.

II. n. One of the Actinoceratidæ. a. and n.

Actinoceratidæ (ak'ti-nō-se-rat'i-dō), n. pl. [NL., \ Actinoceras + -idæ.] A family of longicone nautiloid cephalopods. They have the siphuncle more or less filled with calcareous deposits which may radiate into and even fill the chambers of the shell. The family includes several important genera, namely, Actinoceras, Hormoceras, and Tretoceras, chiefly of Silurian age.

actinocrinid (ak"ti-nō-krin'id), a. and n. ertaining or related to the Actinocrinidæ.

II. n. An encrinite of the family Actinocrinidæ.

pl. 2. In Wachsmuth's Actinocrinida. classification, the third family of the camerate crassification, the third family of the camerate crinoids. They have a monocyclic base, three radial plates in the cup, fixed brachials large and interradials numerous, arms stout, usually biserial and simple, with long pinnules, and food-grooves subtegminal. The family is a large one and issometimes divided into Actinocrinide and Batocrinide. It is represented by numerous generating species of Paleozoic age occurring in the formations from the Lower Silurian to the Carboniferous.

actinogram (ak-tin'ō-gram), n. [Gr. ἀκτίς canogram (ak-tin o-gram), w. [or. ak.] ($\dot{a}\kappa\tau\nu$ -), ray, $+\gamma\rho\dot{a}\mu\mu$ a, what is written.] 1. A record of the chemical activity of light made by means of the actinograph.—2. An impression made on a sensitized photographic plate by the Röntgen or Becquerel rays.

actinograph, n.—Hurter and Driffield's actinograph, n.—Hurter and Driffield's actinograph, a slide-and-roller calculating-machine for determining photographic exposures. A cylinder, carrying a chart which shows geographically the intensity of daylight for every hour of each day of the year, is fitted in a light box. The slide next this cylinder is furnished with two scales, one marked for lens-apertures and the other set out for exposures. Next to this is a small pointer alide which is adjusted to a fixed plate-speed scale and Violle's Actinometer (cross-section). (See p.12.) carbon

indicates the exposure for each of six selected typical meteorological conditions. The instrument is plotted for any desired latitude.

actinographic (ak"ti-nō-graf'ik), a. Of or per-

actinograph: (ak'ti-no-graf lk), a. Of the pertaining to actinography or the actinograph; obtained by means of the actinograph.

actinography (ak'ti-nog'ra-fi), n. [As actinograph + -y³.] The registration of actinic power by means of the actinograph.

Actinoidea (ak-ti-noi'dē-ā), n. pl. [NL., < Gr. akriç (akriv-), ray, + eloo, form.] Same as Crinoidea.

actinolite, n. 2. A trade-name of an apparatus by which the ultra-violet rays may be employed in the treatment of cutaneous dis-

actinologist (ak-ti-nol'ō-jist), n. [actinology + -ist.] One who is versed in the study of the Actinozoa, or the sea-anemones, corals, and related forms.

actinologue (ak-tin'ō-log), n. [Gr. ἀκτίς (ἀκτίν-), ray, + λόγος, analogy, proportion (†).] In a radiate animal, as a sea-anemone or an echinoderm, any organ or other part of an actinomere which corresponds to another in a different actinomere.

actinology, n. 2. The study of the Actinozoa: as, the actinology of the South Atlantic.

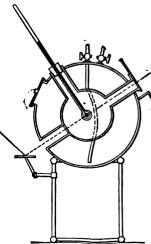
actinolyte (ak-tin'ō-līt), n. [Gr. ἀκτίς, ray, + λυτός, ⟨λύευ, dissolve, separate.] 1. A chemical compound analyzable into its components by light.—2. Any substance in which light effects a marked sensible change.

actinolytic (ak'ti-nō-lit'ik), a. l or of the nature of an actinolyte. Pertaining to

Actinomeris (ak'ti-nom'e-ris), n. [NL., < Gr. άκτις (ἀκτιν-), a ray, + μέρος, a part.] A small genus of North American Compositæ, of which one or two are comparing. Actinomeris (ak'ti-nom'e-ris), n. one or two are sometimes grown in gardens. The cultivated species are perennials, to be treated after the manner of perennial sun-

treated after the manner of perennial sunflowers.

actinometer, n. Chemical actinometers measure the energy of radiation by its chemical effects. Bunsen measured the amount of hydrochloric acid made by sunshine from a mixture of hydrogen and chlorin; Marchand measured the amount of carbonic-acid gas liberated from a solution of perchlorid of iron and oxalic acid by the use of his antiphotypimeter. Photographic actinometers measure the intensity of the shade produced on a sensitized plate by an exposure during one unit of time. Vapor actinometers measure the volume of liquid (water, alcohol, or ether) evaporated in a unit of time. Thermal actinometers measure the heating effect of radiation by many different devices: sometimes called pyrheliometers. De Saussure used the simple hot box; Sir John Herschel, a large thermometer-bulb filled with a blue liquid; Pouillet, a measured volume of water inclosed in a black-bulb thermometer within it; Crova and Violle, a black-bulb thermometer within a large spherical inclosure kept at uniform temperature; Arago, as modified by Davy, a pair of bright- and black-bulb thermometers each inclosed in a plane glass spherical envelop from which the air has been exhausted: when exposed to the sunshine the black bulb attains a higher temperature than the bright bulb, and the difference between the two is an index of the amount of heat which penetrates the glass envelop. The complete theory of this action was published by Ferrel in 1885. Langley used a fine wire coated with lamp-black, the intensity of an electric current flowing through the wire being shown by a delicate galvanometer and varying with the temperature of the wire. Hutchins, following Melioni and Tyndall, employed a delicate thermo-electric junction together with a galvanometer; Chwolson, a pair of plates one of which is exposed to the sunshine while the other is in the shade, the difference of temperature being shown by the intensity of a thermo-electric current; and Angström, in his electrically compensated actinomete



shaded, the dif-ference of tem-perature being measured by the intensity of the electric current needed to bring them both to the same tempera-ture.—Absolute ture.—Absolute
actinometer,
an apparatus for
determining in
absolute units
the total quantity of heat received at any
place during any
time by radiation, as distinguished from time by radia-tion, as distin-guished from the relative measurements made with an ordinary acti-nometer.—Dra-per's actinom-eter, an ac-tinometer which measures the ac-tion of light by tion of light by the weight of carbon dioxid

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disengaged by it from a solution of ferric oxalate. It was devised by Professor Henry Draper.—Richardson's actinometer, an instrument for measuring and recording the intensity of the chemically active rays of the sun by means of the expansion of dry chloring gas.—Roscoe's actinometer, an actinometer devised by Sir Henry Roscoe for measuring the action of light by the use of paper sensitized with silver chlorid. The paper, fixed round a drum moved by clockwork, is periodically exposed behind a hole in a thin sheet of brass fastened over the drum.—Stanley's actinometer, an actinometer for measuring the actinicity of light by the length of time required to bring a piece of sensitized paper to a standard tint.—Violle's actinometer, a black-bulb thermometer placed at the center of a spherical metallic inclosure which is kept at a known constant temperature by the flow of water within its double walls. A small aperture allows sunshine to fall upon the thermometer-bulb, whose rate of warming is observed.

Actinometric degrees, the calculated quantity of radiant energy received by an actinometer in any given interval of time as expressed on any arbitrary scale.

actinomyces, n. 2. [cap.] [NL. (Harz, 1877).]
A genus of fungi of doubtful relationship. The type is A. bovis, the ray-fungus. See actinomuces, 1.

actinomycotic (ak'ti-nō-mī-kot'ik), a. [*actinomycosis(-ot-) + -ic.] Resembling, related to,
or caused by the ray-fungus or actinomyces.
Jour. Exper. Med., V. 179.

Actinomyxidia (ak'ti-nō-mik-sid'i-ä), n. pl.
[NL., < Gr. ἀκτίς (ἀκτιν-), ray, + μίξα, slime
+ -idia.] A group of peculiar parasites found
in frack water clipsochette.

in fresh-water oligochestes. They are regarded by some as being intermediate between Myzosporidia and Mesozoa, while others consider them as belonging to the former group. Stole, 1899.

Actinonema (ak'ti-nō-nē'mā), n. [NL. (Persoon, 1822), ζ Gr. ἀκτίς, ray, + νῆμα, thread.] A genus of Fungi Imperfecti characterized by pycnida produced upon a superficial layer of radiating mycelium. The spores are hyaline and mostly two-celled. A. rosse is a common species which attacks leaves of roses. See *leaf-blotch.

actinophore, n.— Epaxial actinophores, in ichth, nodules of bone or cartilage between the dorsal rays and the interneural spines.—Hypaxial actinophores, in ichth, nodules of bone or cartilage between the anal rays and the interhemal spines.

rays and the internemal spines. Actinopoda (ak-ti-nop'ō-dā), n. pl. [NL., \langle Gr. $a\kappa ric$ ($a\kappa riv$ -), ray, $+\pi obc$ (πob -), foot.] An order of Holothurioidea. The tentacles and podia are supplied by the five radial canals of the water-vascular system springing from the circular canal. The order includes the families Holothurides, Cucumarides, Molpadiide, Elpidiides, and Pelagothurides.

Actinopteria (ak*ti-nop-tě/ri-ä), n. [NL., \langle Gr. $\dot{\alpha}$ xric ($\dot{\alpha}$ xrıv-), ray, $+\pi\tau\epsilon\rho\dot{\alpha}v$ ($\pi\tau\epsilon\rho\dot{\alpha}$), feather (wing).] A genus of Paleozoic aviculoid shells. They have a well-defined auricle and wing and radial surface-plications which cover the latter. Abundant in the Devonian formations of America and Europe.

Actinopterygia (ak - ti - nop - te - rij'i - ä), n. pl. [NL., ζ Gr. ἀκτίς (ἀκτιν-), a ray, + πτερίγιον, a fin.] A great group of fishes including all of the living bony fishes except the Dipnoi or lung-fishes and, usually, the Crassopterygii or fringe-finned ganoids. The term Teleostomi is fringe-finned ganoids. The term Teleostomi is more commonly used and usually embraces all

of the living bony fishes.
actinosome (ak'ti-nō-sōm), n. Same as actino-

actinostome, n. 2. The pentagonal area in the center of the oral surface of an echinoderm which is occupied by the peristome and mouth.

actinostomial (ak'ti-no-stō'mi-al), a. [NL. *actinostomialis, < actinostomium, actinostome.]
Pertaining or relating to the actinostome: as, the actinostomial ring in Asteroidea.

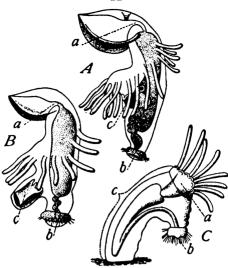
actinostomous (ak-ti-nos'tō-mus), a. [Gr. aκτις, ray, + στόμα, mouth.] In bot., radiating round the mouth: applied specially to the radiate structure round the ostioles of certain lichens

lichens. Actinostroma (ak-ti-nō-strō'mä), n. [NL., \langle Gr. $a\kappa\tau\iota\varsigma$, ray, $+\sigma\tau\rho\bar{\omega}\mu a$, bed.] A genus of hydrocoralline hydrozoans. They grew in spreading masses and exhibited, in vertical section, a series of radial pillars extending more or less continuously through successive layers. An abundant reef-building organism in the Devonian.

actinotherapeutic (ak'ti-nō-ther-a-pū'tik), a. Pertaining to the therapeutic use of certain rays of light, especially in the treatment of cutaneous diseases.

actinotherapy (ak'ti-nō-ther'a-pi), n. [Gr. ἀκτίν (ἀκτιν-), rav. + θεραπεία, cure.] Same as *radiotherapy.

actinotrocha (ak'ti-nō-trō'kä), n. [NL., < Gr. ekriς (ακτιν-), a ray, + τροχός (1), a wheel, a ring.] The peculiar larval form of *Phoronis*, an aberrant genus of marine worms of doubtful affinities, being sometimes classed with the



Three stages in the Metamorphosis of the Actinotrocha into Phoronis. A. Actinotrocha larva with the invagination (c), which will form the trunk of the Phoronis larva, beginning to appear. B, stage with the invagination partly extruded. C, stage when the extrusion is complete and the alimentary canal has passed into it. (C is after Metschnikoff). a, mouth; b, anus; c, invagination it. (C is after Metschnikoff). which ultimately forms the greater part of the body of the adult. (From "Cambridge Natural History.")

Gephyrea, sometimes with the Molluscoidea,

Gephyrea, sometimes with the Molluscoidea, and sometimes with the Hemichordata.

action, n., 11 (b). In the pianoforte the action is said to be heavy or light, hard or easy, according to the amount of resistance to the finger; deep or shallow, according as the dip of the keys is great or small; repeating if the mechanism permits repetition of the stroke without allowing the keys to rise to their original position, etc.; and the word is also extended to the pedal mechanism. In the organ (besides the above usages) the action is called an electric, pneumatic, or tracker action, according as the mechanism connecting the keys with the valves varies in construction; and the word is also extended to the stop mechanism. Furthermore, in the organ the action is said to be extended when the keyboards are placed at some distance from the case in which are the pipes.

13. In psychol., bodily movement, in so far as it is directly preceded, accompanied, or followed by consciousness. Some psychologists distance from the case in which are the pipes.

it is directly preceded, accompanied, or followed by consciousness. Some psychologists distinguish this as the external voluntary action from an internal voluntary action, in which the effect of the initial volition is itself a mental process, a change in the train of ideas which does not manifest itself by any sort of external symptom. Others use the phrase action of the mind loosely as the equivalent of mental function or mental activity.

A voluntary action consists, in the first place, of a feeling, in which the tendency of the will is manifested; secondly, of a change in ideational content which may be accompanied by an external effect mediated by the organs of movement; and thirdly, of the general idea of the dependence of this change upon the whole trend of consciousness. consciousness.

W. Wundt (trans.), Human and Animal Psychol., p. 233.

14. In mech., the sum of the average momenta of the elements of a moving system, each multiplied by the distance through which it moves. iplied by the distance through which it moves.—Action consciousness. See *consciousness.—Action ex contractu, a civil action in which the rights of the parties are subject to the law of contracts as distinguished from the law of torts.—Action ex delicto, a civil action in which the rights of the parties are subject to the law of torts as distinguished from the law of contracts.—Action theory, a psychophysical theory which correlates the attributes of sensation with definite phases of the pasage from excitation to discharge in the cerebral cortex its quality and intensity with locality and strength of excitation; its value and vividness with locality and strength of discharge. H. Minsterberg, Harvard Psychol. Stud., I. iv.—Automatic action, in psychol., a term used, with various shades of meaning, to denote action which reginally voluntary, has become more or less mechanical.—Continuous action, in mech., action in the same direction, without a reversal. The action of a circular saw or band-saw or a dynamo is continuous; that of an engine-piston is alternating.—Directive action, action which tends to cause a body possessed of polarity, as a magnet or a crystal, to take some certain position in the field of force in which it lies. See the extract.

If the attraction with parallel axes exceeds that with

If the attraction with parallel axes exceeds that with crossed axes there must be a directive action resisting the turn from the crossed to the parallel positions.

J. H. Poynting, Smithsonian Rep. 1901, pp. 209, 210.

J. H. Poynting, Smithsonian Rep. 1901, pp. 209, 210.

Dynamic action, in sociol., an action in which the end is sought mediately : opposed to state action, in which the end is sought immediately.—Funicular action. See **funicular.—Impulsive action, in psychol., a simple voluntary action determined by a single motive. W. Wundt (trans.), Human and Animal Psychol., p. 232.—Instinctive action, in psychol., action founded on a congenital, instinctive basis, but consciously motived by acquired experience. **Morgan, Habit and Instinct, p. 136.—Joint action, a civil action in which several parties, having the same or similar rights in the subject-matter of the suit, are joined as plaintiffs or defendants.—Law of mass action, in phys. chem., the statement that when any substance in solution enters into a chemical reaction the amount of the reaction in the unit of time is proportional to the active mass of the substance, that

is, to the number of gram-molecules of the substance contained in one liter of the solution.—Law of reciprocal action. See *law.—Local action. (b) In an electric battery, the development of electrical energy by chemical action on the elements of the battery even when the outer circuit is open. Such local internal circuits weaken the effective or useful current. (c) In dynamo-electric machines, wasteful internal circuits in the pole-pieces or cores; eddy, parasitic, or Foucault currents.— Multiplicity of actions, a term used in equity jurisprudence wherein a court of chancery has jurisdiction to compel the consolidation of several suits where the issue in all can be determined in a single action. A suit in such a court may be brought to prevent a 'multiplicity of actions.'—Psychomotor action, in psychol., action which occurs as the direct response to a perception or idea. The term includes ideomotor and sensorimotor action.—Selective action in psychol., action which results from the clash in conaciousness of two or more impulses. E. B. Titchener, Outline of Psychol., p. 266.—Static action. See dynamic *action.—Volitional action, in psychol., a term used, with various shades of meaning, to denote action which involves the exercise of active attention.

Schion-extension (ak *shon-eks-ten*shon), n.

In pianoforte-making, a wooden rod which transfers the motion of the key-tail to the whip. Its length varies with the size and arrangement of the action. Analogous to sticker in organ-building.

whip. Its length varies with the size and arrangement of the action. Analogous to sticker in organ-building. See cut under pianoforte.

action-rail (ak'shon-rail), n. In pianoforte-making, a bar or rail extending across the action from side to side, to which are pivoted the movable parts of all the hammers and damp-

ers. See cut under pianoforte. action-time (ak'shon-tim), n. In psychol., a term occasionally used for the simple reaction-

activ, a. A simplified spelling of active.
activate, v. t. 2. In physics, to render active;
specifically, to make radioactive by exposure to the influence of a radioactive substance; to ionize. See *radioactivity.

J. Elster and H. Geitel describe their method of studying the radio-activity of the atmosphere in places removed from physical or meteorological laboratories. In these measurements it is necessary to maintain the body to be measurements are laboratorized for several hours at a negative potential of several thousand volts.

Sci. Amer. Sup., Apr. 18, 1903, p. 22815.

activated (ak'ti-vā"ted), p. a. In physics, in a state or condition of acquired radioactivity; ionized.

They find that underground air is not like activated air, but rather resembles radium and thorium compounds, which, while neutral themselves, are capable of ionizing gases by means of the free ions they emit.

Elec. World and Engineer, Jan. 10, 1903, p. 86.

activation (ak-ti-va'shon), n. The act of rendering active or the state of being activated; specifically, in *physics*, the process or method of producing radioactivity in a body by exposure to the influence of a radioactive substance or otherwise; the state or condition of being radioactive; ionization.

active, a. 9. In psychol., representative of a type of character whose dominant character-

istic is a natural and constantly renewed tendency to action.—Active *congestion, *mass, *pressure, *principle. See the nouns.—Active deposite in radioactivity, a substance deposited by the emanation from a radioactive material, as radium or thorium, and itself capable of producing excited activity in neighboring bodies.—Active material (of a storage-cell), in elect., the substance or substances which change chemically during charge and discharge.—Active verb, a verb which expresses action. It may be (a) active transitive, in which the action passes from the subject or agent to an object: as, the sun gives light; or it may be (b) active intransitive, in which the action is confined to the subject: as, the sun shines.—Active voice in gram., that form or aspect of a verb in which the subject of the verb is represented as acting. See active, 8.

activital (ak-tiv'i-tal), a. [activity + -al.] Relating to action as opposed to thought. J. W. Powell. istic is a natural and constantly renewed ten-

Full knowledge of aboriginal character may be gained only through study of both the activital habits and the intellectual systems of the aborigines; for in every stage of human development, action and thought are concomitant and complementary.

Rep. Bur. Am. Ethnol., 1897-98, p. 825.

activity, n. 6. In psychol., a self-determina-tion of mental process, experienced or in-ferred, especially characteristic of the conaferred, especially characteristic of the conative consciousness. The term has been variously and loosely used in modern psychology. In those systems which are still dominated by philosophical infuences it denotes a primary and irreducible experience of self-causation or free initiative. To the psychologist who looks upon mind as a system of organic functions activity is given with the direction of the course of consciousness, knowingly or unknowingly, upon a determinate end: a particular mental process is the first term of a definite series, the remaining members of which it evokes in their order, while the series reaches its natural conclusion when the end is attained. In this sense, however, mental activity becomes practically synonymous with mental function itself, since the limiting cases of anoetic sentience and involuntary movement are still self-determined in just so far as consciousness is involved in them. Lastly, there are psychologists who, investigating mind as a stream of mental processes, predicate of it neither activity nor passivity, but hold that the antithesis of anctive and passive has no more place within psychology than the antithesis of subjective and objective. However, they still employ the terms, in obedience to traditional usage, as descriptive names of mental states or mental complexes; they speak, for example, of 'active' attention, meaning attention that is equivocally conditioned; and of a 'feeling of activity' which accompanies the state of active attention. Such a terminology, however harmless in intention, can only add to the existing confusion.

actol (ak'tol). n. [act + -ol] A trade name.

actol (ak'tol), n. [act + -ol.] A trade-name for silver lactate, $C_3H_5O_3Ag$, a substance used as a soluble antiseptic. It must be kept from the sunlight.

Actuality theory, in psychol., the theory that psychology deals with the immediate and underived reality of experience, while the natural sciences, as abstracting from the knowing subject, deal only with mediate experience: opposed to the theory of substantiality or of mind-substance. W. Wundt (trans.), Outlines of Psychol., D. 314.

actuarian (ak-tū-ā'ri-an), a. Same as actuarial.

acuate, a. 2. Having an elongate smooth form pointed at one end; needle-shaped: applied to sponge-spicules.

II. n. An acuate monactinellid sponge-

spicule.

aculeolus (ak-ū-lē'ō-lus), n.; pl. aculeoli (-li). [NL. (L. as a doubtful reading), dim. of aculeus: see aculeus.] In bot., a minute aculeus or prickle.

or prickle.

acuminate, a. (c) In ichth., drawn out in a long point: said of the fins.

acupunctuate (ak-ū-pungk'tū-āt), v. t.; pret. and pp. acupunctuated, ppr. acupunctuating. [L. acus, needle, + punctuare, prick: see punctuate.] To prick with a needle; acupuncture. acupunctuation (ak'ŭ-pungk-ţŭ-ă'shon), n.

Same as acupuncturation.
acuta (a-kū'tä), n. [NL.: see acute, a.] In
organ-building, an unusually shrill mixture-

Acntalia (ak-ū-tā'lis). n. [NL. (Fairmaire, 1846), (L. acutus, pointed.] A genus of treehoppers of the homopterous family Membracidæ. A. dorsalis is found in considerable numbers on grape-vines in the northern United States in July. It is known as the black-backed tree-hopper.

acuteness, n. (e) In musical acoustics, relative ele-vation of pitch in a sound or tone, produced by greater frequency of vibration: opposed to gravity. The higher the pitch, the greater is the acuteness.

acutilingual (a-kū-ti-ling'gwal), a. [L. acutus, sharp, + lingua, tongue.] Having a sharp-

sharp, + lingua pointed tongue.

pointed tongue.

acutiplantar (a-kū-ti-plan'tär), a. [L. acutus, sharp, + planta, sole.] In ornith., having the tarsus sharply ridged on its posterior face.

Ridgway, Birds of North and Middle America, I. 24.

acutish (a-kū'tish), a. [acute + -ish1.] Rather acute; specifically, in bot., barely acute or verging toward an acute form.

acutorsion (ak-ū-tôr'shon), n. [L. acus, needle, + torsio(n-), twisting.] In surg., an operation for arresting hemorrhage from a wounded artery by passing a needle beneath the vessel, twisting it, and passing it out over the vessel.

acutospinous (a-kū-tō-spi'nus), a. [L. acutus, sharp, + spina, spine.] Having sharp spines. acyanoblepsia (a-sī-a-nō-blep'si-ä), n. Same

as acycnoblepsy.

acyclic, a. 2. In dynam., not having the property of whirling or moving in circles.

The system now behaves, as regards the co-ordinates q₁, q₂, . . . q_m, exactly like the acyclic type there contemplated.

Encyc. Brit., XXVII. 570.

3. Irregular in course; not occurring with normal periodicity.—4. In chem., containing no cycle or ring: said of organic compounds which contain no ring of atoms.—Acyclic sur-face, a surface such that any closed curve upon it can contract to a point without leaving the surface.

acyesis (a-si-ē'sis), n. [NL., < Gr. ά- priv. + κίησις, conception, < κυείν, conceive.] 1. Inability to conceive; barrenness.—2. The con-

dition of non-pregnancy.

acyl (as'il), n. [ac(id) + -yl.] A name introduced by Liebermann to designate an acid

radical such as acetyl, C2H3O.

acylate (as'i-lat), v. t.; pret. and pp. acylated, ppr. acylating. [acyl + -ate1.] To introduce an acyl-group into; especially, to prepare an acyl derivative of an organic compound continue by the state of the sta

speak incorrectly, < ἀκυρος, unauthorized, improper (< ά-priv. + κύρος, authority), + λόγος, speech.] Faulty diction. [Rare.]

Acystosporea (a-sis'tō-spō'rō-ā), n. pl. [NL., < Gr. ά-priv. + κίστις, bladder, + σπόρος, seed

(see spore).] A suborder of Sporozoa, of the order Hæmosporidia. It contains those forms in which the trophozoite is an amoboid hemanuclea or is of simple body form and is typically endoglobular throughout the schizogonous cycle. An alternation of hosts occurs in many cases, schizogony taking place usually in a warm-blooded vertebrate host, while sporogony occurs in an invertebrate host, usually an arthropod. Compare *Hæ-

Acystosporidia (a-sis'tō-spō-rid'i-ä), n. pl. [NL., as Acystospor-ea + -id-ia.] A group of protozoan cell-parasites infesting certain vertebrates. They are found mainly in red blood-corpuscles, but also in the kidney, liver, and intestinal epithelium. In blood they cause hypertrophy of the corpuscles and diminution of the hemoglobin. They are associated with malaria in man and with Texas fever in cattle. See *Hæamehide and #Gumn ridia

ad, v. A simplified spelling of add.
Ada (ā'dṣ), n. [NL. appar. from the feminine name Ada.] A genus containing two species of epiphytal orchids native to northern South America, sometimes grown in choice collections under the same conditions as Odontoglos-

adactylia (a-dak-til'i-ä), n. [NL., < Gr. a- priv. δάκτυλος, finger or toe: see dactyl.] In teratol., a congenital lack of some or all of the fingers or toes.

adactylism (a-dak'til-izm), n. Same as *adac-

tylia.

sdagio, adv. and a. Special varieties of movement or style are indicated by adding other terms, as: adagio assai or molto, very slow; adagio non troppo, slow, but not two much so; adagio cantabile or sostenuto, slow, with a flowing or sustained movement; adagio patrico, slow and with pathos; adagio pesante, slow, with heavy accents; adagio religioso, slow and in the church style; etc. adalid (ad-a-lèd'), n. [Sp., a chief or commander, < Ar. al-dalil, < al, the, + dalil, leader, guide.] A leader or guide. Miss Yonge, Christians and Moors in Spain, p. 206.

Adam n.— Adam and Eva. (b) A colloquial name for

Adam, n.— Adam and Eve. (b) A colloquial name for Sempervivum tectorum, the houseleek.— Adam's apple. (d) A name given to the crape jasmine or East Indian rosebsy, Tabernæmontana coronaria. See crape jasmine, under *jasmine.— Adam's fig. See fig².

Adamantine layer or substance, the enamel of the

teeth.

adamantoblast (ad-a-man'tō-blast), n. [Gr. ἀδάμας, adamant, + βλαστός, germ.] In embryol., one of the cells which produce the enamel of the teeth. Same as *ameloblast.

adamellite (ad-a-mel'īt), n. [(Monte) Adamello, in the middle Alps, + -ite²] In petrog., a name proposed by Cathrein (1890) as a substitute for longlite and described as a graphy.

a name proposed by Cathrein (1890) as a substitute for tonalite, and described as a granular igneous rock of the group intermediate between granite and diorite, containing orthoclase and plagioclase feldspars with hornblende and biotite. Brögger uses the term for highly

quartzose monzonites.

Adam Kadmon (ad'am kad'mōn). [Heb. 'ādām kadmōn, 'ādām ha-kadmōni, 'the first man.'] In cabalistic doctrine, the primordial man, the image of God, emanating from the Ensoph, the Infinite, and representing the Eser Sephiroth, the ten attributes of the deity. See *Sephiroth and *Nachash Hakadmoni.

Adamkiewicz's reaction. See *reaction. Adams-Stokes disease. Same as Stokes-Ad-

monkeys, + Sorex, a genus of insectivores) +
-idæ.] A family of extinct insectivorous mam--idæ.] A family of extinct insectivorous mammals related to the moles, but more highly specialized. The type genus, Adapisorex, about the size of a hedgehog, is from the Lower Eccene of Reims, France.

adapoid (ad'a-poid), a. [Adap-is + -oid.] Related to the Adapidæ.
adapt, v. t. 4. Same as *immunize.

Bordet heated for half an hour to 56° C. some of the tic serum secured by adapting the guinea-pig through the transcord in the found that it had completely lost its new lytic wer.

Med. Record, Feb. 14, 1908, p. 246. taining a hydroxyl- or amino-group.

acyrology (a-si-rol'ō-ji), n. [L. acyrologia, < Gr. ἀκυρολογία, < *άκυρολογός, adj., < ἀκυρολογείν, adaptation, n. 4. Same as *immunization.—

adding-machine

Adaptation product. See *adaptation product.— Constitutional adaptation constitutional impregna-tion. See *impregnation.— Functional adaptation, in biol., the adjustment of an organism by its own activity in tot., the adjustment of an organism by its own activity to changed conditions, considered as a cause of change in its structure. The notion of functional adaptation as prior to and the cause of structure rests upon the belief that an organism can do things for which it has no adaptive machinery. H. B. Crampton, Biometrika, March-July, 1904, p. 114.—Law of adaptation, in sociol., the assumption that social groups acting upon one another universally adapt themselves to a certain end, namely, further social development.—Ontogenetic adaptation, an adaptive change which is produced in an organism by its own activity and is not transmitted to descendants, as contrasted with a change which is congenital and is transmitted to descendant; a useful acquired character. H. F. Osborn, Science, Oct. 15, 1807.—Visual adaptation, the adjustment of the eye, by the pupilary mechanism and by retinal changes, to a change in the color or brightness of its surroundings. The eye may become adapted either to a change of the total field of vision (general adaptation) or to local and partial changes within a given field (local adaptation). Adaptation itself may be partial or complete. changed conditions, considered as a cause of change its structure. The notion of functional adaptation as

may be partial or complete.

adaptationist (ad-ap-tā'shon-ist), n. One who
believes that social phenomena must be explained as adaptations to environment and accounted for by collective causes rather than

by individual efforts.

adaptation-product (ad-ap-tā'shon-prod'ukt),

n. A substance produced in the body of an animal of one species by immunization with cells or cellular products derived from the body of an animal of an alien species. Also called reaction-substance. It has a specific effect upon the body used in immunization which, generally speaking, is antagonistic to the immunizing substance. In this relation also called antibody or antisubstance. Examples are the various antitoxins, cytotoxins, agglutinins, and precipitins. See *immunity.

adapted (a-dap'ted), p. a. Specifically, resulting from immunization: as, an adapted serum. adapter, n. 6. In photog., an attachment to a camera by means of which plates of sizes other than those for which the camera is de-

signed may be used.

adaxial (ad-ak'si-al), a. [L. ad, to, + axial.]

In bot., in a plane facing the axis. See the

extract.

The ovaries [in Casuarina] are flattened laterally, in contrast to the adaxial flattening of the wings in Pinua.

Bot. Gazette, XXXVI. 104.

An abbreviation of Artium Domesticarum Baccalaurea, Bachelor of Domestic Arts, a degree conferred by some institutions upon women.

1. An abbreviation of Aide-de-camp. A. D. C. An abbreviation of Anodic Duration Con-

traction: used in electrotherapy.

add, v. t.—Added part or voice, in music, a part or voice supplementary to the principal melody or to the essential harmony. Thus in polyphonic writing a counterpoint may be called the added part or voice, in distinction from the cantus; or when a solo part is combined with a chorus it may be called the added part or wice.

addental (a-den'tal), n. [ad- + dental.] In ichth., one of the bones of the upper jaw, joined to the premaxillary in front: synony-

mous with maxillary.

adder¹, m.—Banded adder, Bungarus fasciatus of southern Asia.—Berg adder, Clotho (or Vipera) atropos of South Africa.—Blowing-adder, a harmless log-nosed snake of North America belonging to the genus Heterodom.—Horned adder, Clotho cornuta of North Africa: not to be confounded with the horned viper, Cerastes cornuta, also of North Africa, but more abundant and provededly. more deadly.

Adams-Stokes disease. Same as Stokes-Adams **disease. Same as Stokes-Adama! (ad-ā'nal), a. [L. ad, to, + anus, anus.] Extending to the anus: as, the adanal plate, in Arachnida, a plate-like sclerite reaching to the anus.

adangle (a-dang'g'), adv. [a³ + dangle.] Hanging loosely; in a dangling position or condition; dangling. Browning, Men and Women, i. 37. N. E. D.

Adapisoricidæ (ad'a-pi-sō-ris'i-dō), n. pl. [NL., \(Adapisorex (\) \(Adapis, a genus of monkeys, + Sorex, a genus of insectivores) + -idæ.] A family of extinct insectivorous mam-line adams as addigital (a-di) and addigital remex. The primary attached to the first addiment (ad'i-ment), n. [NL. **addimentum, '\(L. addimentum, '\(L. addimentum, '\) and addita-

L. addere, add.] A thing added; an additament; a complement; specifically, same as *complement, 8. See *alexin.

Dr. Longcope gives a study of the bacteriolytic action of human blood in disease, and Dr. Walker surveys the various factors in bacteriolytic action, from which he deduces the fact that the complement or addiment is a product of disintegration of leucocytes.

Nature, Feb. 19, 1908, p. 378.

adding-machine, n. Its different forms depend either on the totalizing principle, on the principle of a train of gears whose ratio is 10 to 1, or on both. In a convenient form the figures are arranged like the keys of a type-writer in vertical rows from 1 to 9. By depressing the key for the proper figure in the row of units, tens.

addition, n.—Algebraic addition, addition in which the signs (+ and —) of the quantities to be added are considered. The result is the difference between the sums of the positive and of the negative quantities, with the sign of the greater.—Relative addition, such a combination of two relative terms as will produce a third term expressing the relation in which any relate, A, of the first term added would stand to any correlate, C, of the second term added if, and only if, every object in the universe, say X, were either such that A was in the first relation to X, or such that X was in the second relation to C. For example, in the universe of whole numbers, the number 4 stands to the number 2 in the relation which results from the relative addition of "is prime to" to "is a multiple of," since 4 is prime to every number unless to a multiple of 2. This operation was introduced into logical algebra in 1882 by C. S. Peirce, and has generally been employed, although Whitehead and others hold it to be of little utility. addition, n .-

addition-compound (a-dish'on-kom'pound),
n. Same as *addition-product.
addition-product (a-dish'on-prod'ukt), n. In
chem., a compound formed by the direct addition of one element or compound to another. It is contrasted with substitution-product, in which one element or group is substituted for another. Also called

addition-compound.

Addititious force, in astron., the radial component of a disturbing force when it increases the attraction of a satellite toward its primary, especially of the moon toward the earth: opposed to adiatitious force, which diminishes the attraction. The force is addititious when the satellite is in quadrature with the disturbing body (usually the sun), adiatitious when in sysygy.

addograph (ad'ō-graf), n. [L. addere, add, +Gr. ypapere, write.] An adding-machine with a device for recording results on a type, writer.

a device for recording results on a type-writer.

Gr. ypápeu, write.] An adding-machine with a device for recording results on a type-writer. address, n.—Forms of address. See *form.

addressing-machine, n. These machines are of several kinds: (a) A small apparatus, operated by hand, for cutting from a prepared paper ribbon of printed addresses one address at a time and pasting it on the wrapper. (b) A machine for stenciling addresses, etc., on wrappers or cards. The stencils, made on parchment and reinforced by a cardboard frame, are prepared by a perforating-device attached to a type-writer. When ready, the stencils are placed in alphabetical order in the hopper of a special form of stenciling-press and automatically fed to the inking-roller and then passed to the press, which forces enough ink through the stencil to make a clear impression on the wrapper. The stencils are then relieved of surplus ink and delivered to another hopper, which retains them in regular order ready for use again. The machine stencils the addresses on a continuous roll of paper, and cuts off, counts, and delivers the wrappers in the same order as that of the stencils. (c) A press for printing addresses, etc., from embossed type. The addresses are embossed in a special form of power type-writer on ribbons of type-metal, and are then, in a special machine, cut apart and fitted with locking hinges, and made up by hand into chains or ribbons. A ribbon on a spool is placed in a power printing-press and automatically fed to the inking-rollers and to the press; each addressed type-plate is printed in turn, and the chain is rewound on another spool. The addresses are printed on a continuous roll, cut, and counted in regular order. A smaller machine of this type is fed by hand and operated by footpower.

addressograph (a-dres'ō-gráf), n. [address + Gr. γράφειν, write.] A special form of footpower addressing-machine employing endless chains of embossed metal type or chains of movable rubber type. See *addressing-machine.

ade (ad), n. [Detached from lemonade, limeade, orangeade.] A drink of the lemonade or orangeade class. [Colloq.]

They make a superior ade which rivals lemon or lime de.

Science, Feb. 13, 1903, p. 268. Adelaide ruby, sovereign. See *ruby, *sov-

Adelea (ad-ē-lē'š), n. [NL. (A. Schneider, 1875), appar. (irreg.) < Gr. ἀδηλος, not manifest, unseen.] A genus of Coccidia, of the family Polysporocystidæ, having the dizoic spores spherical or compressed and the sporocysts smooth. The various species are parasitic in

smooth. The various species are parasitic in myriapods and insects.

adelite (ad'ē-līt), n. [Gr. ἀδηλος, not manifest, + -ite². The allusion is to the indistinct crystallization.] A basic arseniate of calcium and magnesium, of a grayish color, occurring in embedded grains and rarely in monoclinic crystals: found in Sweden.

adeloceratous (ad'ē-lō-ser'a-tus), a. Same as

adelocerous (ad-ē-los'e-rus), a. Having con-

adelocerous (ad-e-los g-rus), the Having concealed antennæ. Same as cryptocerous.

Adelochorda (ad'ē-lō-kôr'dā), n. pl. [NL., (Gr. ἀδηλος, not evident, + χορδή, chord.] A subphylum and class of Chordata including the genera Balanoglossus, Rhabdopleura, and Cephalodiscus. The distinctive features of the group are the presence of the presumed rudimentary representative of a notochord and of the gill-slits. The group is not homogeneous, and the affinities of its members to Chordata are denied by some zoologists.

hundreds, etc., the result of the addition appears in figures. Such machines are much used in banks, offices, and factories.

and factories.

Addition. n.—Algebraic addition, addition in which to the so-called chief or central cells of the gastric mucosa, which supposedly furnish the pepsin and chymosin. W. D. Halliburton, Chemical Physiology and Pathology, p. 633.

Adelops (ad'ē-lops), n. [NL. (Tellkampf, 1844), ⟨Gr. ἀδηλος, not evident, + ὑψ, eye.] A genus of beetles of the family Silphidæ. They inhabit caves, where their larvæ feed upon the dung of bets and other cave-inhabiting animals. About 30 species are known, mainly from European caves. Adelops hirtus lives in the Mammoth Cave of Kentucky.

Adeloginhomia (ad/ē-lō-si-fō/ni-ā) n. al [NI.

Adelosiphonia (ad 'ē-lō-sī-fō'ni-ā), n. pl. [NL., ⟨ Gr. ἀσηλος, not evident, + σίφων, pipe.] A group or section of anomalodesmaceous pegroup or section of anomalodesmaceous pelecypod mollusks, or Acephala. They constitute a subdivision of the superfamily Anatinacea and comprise those mollusks which have short siphons and a well-defined lithodesma. The genus Pandora is an example. adelphiarchal (g-del'fi-ār-kal), a. [Irreg. \langle Gr. $ade\lambda\phi\phi_{\zeta}$, brother, $+a\rho\chi\phi_{\zeta}$, ruler, +-al.] Relating to a form of government exercised by

the men assembled in council, the members of the council being considered as brothers.

the extract.

In this way the women sitting in clan council constituted the primary legislative body, while their brothers atting in tribal council formed a senate or final legislative body whose decisions were binding on the executives of clans and tribes; so that the social organization may be classed as adelphiarchal (like that of the Seri Indians described in earlier reports) in principle, though largely patriarchal in detail.

Smithsonian Rep., 1901, p. 77.

adelphic (a-del'fik), a. [Gr. ἀδελφικός, brotherly or sisterly, < ἀδελφός, brother, ἀδελφίς, sister.] In math., pertaining to the connectivity of a surface. - Adelphic order, in math., the connectivity. adelphogamy (a-del-fog'a-mi), n. [Gr. ἀδελφός, brother, + γάμως, marriage.] That form of polyandry in which a number of brothers have a wife in common. J. W. Powell.

signald (neetary), + πεταλώ, tear (p. The transformation of nectaries into p. Morren.

adenophlegmon (ad'e-nō-fleg'mon), n. αδήν, gland, + φλεγμωνή, inflammation.]

Among other privileges bestowed on the bride during the probationary period are those of receiving the most intimate attentions from the clanfellows of the groom; and these are noteworthy as suggestions of a vestigial polyandry or adelphogamy.

Rep. Bur. Am. Ethnol., 1895-96, p. 281.

adelphotaxy (a-del'fō-tak-si), n. [Gr. ἀδελφός, brother, + τάξις, disposition, order.] In biol., the movement of certain motile cells in relation to each other: a term proposed by Hartog in 1888.

in 1880.

adempted (a-demp deemed. See adeem. (a-demp'ted), p. a. Same as

adenase (ad'e-nās), n. An autolytic ferment

adenase (ad'e-nas), n. An autolytic ferment found in certain glands which transforms adenin into hypoxanthin.

adendric (a-den'drik), a. [a-18 + dendron + -ic.] Same as *adendritic.

adendritic (a-den-drit'ik), a. [a-18 + dendritic.] In neurol., having no dendrites: said of nerve-cells which have only the neuraxon or axis-cylinder process.

adenin (ad'e-nin), n. [Gr. $a\delta \hat{\eta} \nu$, gland, + $-in^2$.] One of the purin or xanthin bases, $C_5H_5N_5$. It has been obtained from the lymph glands,

One of the purin or xanthin bases, $C_5H_5N_5$. It has been obtained from the lymph glands, spleen, thymus gland, kidneys, etc. adenocheirus (ad'e-nō-ki'rus), n.; pl. adenocheirus (ad'e-nō-ki'rus), n.; pl. adenocheirus (i.Ti). [NL., $\langle Gr. \dot{a}\delta\rho\mu\rho, g\rangle$ without skin, $\langle \dot{a}$ -priv. $+ \dot{b}\epsilon\rho\mu a$, skin.] Partial or complete congenital absence of the skin. adessive (ad-es'iv), n. [L. ad, at, + esse, be, hand.] In Turbellaria, one of the outgrowths from the atrial walls in the genus Artioposthia which serve as accessory copulatory organs. See *adenodactulus. See *adenodactylus.

adenochondrosarcoma (ad'e-nō-kon'drō-särkō'mā), n.; pl. adenochondrosarcomata (-ma-tā). A mixed tumor containing the elements of

adenoma, chondroma, and sarroma.

adenocyst (ad'e-nō-sist), n. Same as *adeno-

cystoma.
adenocystic (ad'e-nō-sis'tik), a. Same as *adenocystomatous.

adenocystic (ad'e-nō-sis'tik), a. Same and nocystomatous.

adenocystoma (ad'e-nō-sis-tō'mā), n.; pl. adenocystomata (-ma-tā). [NL., < Gr. ἀδήν, gland, + κύστις, bladder (see cyst), + -oma.] An adenoma containing cystic cavities.

adenocystomatous (ad'e-nō-sis-tō'ma-tus), a. Relating to or of the nature of adenocystoma.

adenodactylus (ad'e-nō-dak'ti-lus), n.; pl. adenodactylus (ad'e-nō-dak'ti-lus), n.; pl. adenodactyli (-lī). [NL., < Gr. ἀδήν, gland, + dáκτυλος, finger.] In Turbellaria, one of the outgrowths from the atrial walls in the genus Artioposthia which serve as accessory copulations of ad fine (which see).

Same **adenochcirus.*

Deyona ...

ad eund. An abbreviation of use and eundem gradum, to the same degree.

adevism (ā'dā-vizm), n. [Skt. ádeva, hostile to the gods, ⟨ à-priv. + deva, a god (see deva), + -ism.] Hindu 'atheism' in the sense of a denial of the old 'devas': a proposed term distinguished from atheism.

adfin. An abbreviation of ad fine (which see).

adgustal (ad-gus'tal), n. [L. ad, to, + gustus, a name given by Geoffroy to the pterygoid bone which forms part of the palatoquadrate arch.

nofibromata (-ma-tä). A glandular tumor consisting largely of an overgrowth of fibrous

adenoid, a.—Adenoid disease, pseudoleucocythemia.
— Adenoid tumor, Same as adenoma.— Adenoid vegetations, masses of lymphoid tissue, similar in structure

to the tonsils, situated at the posterior wall of the upper end of the pharynx. When hypertrophied, as they often are in children, these vegetations may obstruct the pas-sage of air through the posterior nares and so necessitate mouth-breathing. Also called pharyngeal tonsil and Luschka's tonsil.

II. n. An adenoid growth; specifically, an adenoid vegetation.

adenolipoma (ad'e-nō-li-pō'mä), n.; pl. adenolipomata (-ma-tä). [NL., < Gr. ἀδήν, gland, + λίπος, animal fat, + -oma.] A glandular tumor

adenolymphoma (ad'e-nō-lim-fō'mā), n.; pl. adenolymphomata (-ma-tā). [NL., < Gr. aōn, gland, + L. lympha, lymph, + -oma.] Same as lymphadenoma.

Adenoma destruens. [L., destructive adenoma.]
adenoma, usually of the stomach, intestines, or uter
which has taken on malignant characteristics. A called adenocarcinom

adenomalacia (ad'e-nō-ma-lā'si-ā), n. [NL., ⟨Gr. αόην, gland, + μαλακία, softness, ⟨ μαλακός, soft.] Pathological softening of glands.

adenomatome (ad-e-nom'a-tom), n. [Gr. àd/p, gland, + -ropo; \(\tau_i = \tau_i \

employed in the removal of adenoid growths.

adenomyxoma (ad'e-nō-mik-sō'mä), n.; pl.
adenomyxomata (-ma-tä). [NL., 'Gr. aόπ,
gland, + μυξα, mucus, + -oma.] A tumor
composed of glandular and mucous tissue.

adenomyxosarcoma (ad'e-nō-mik'sō-sär-kō'mā), n.; pl. adenomyzosarcomata (-ma-tā). [NL., < Gr. ἀδήν, gland, + μύξα, mucus, + σἄρξ (σαρκ-), flesh, + -oma.] A tumor composed of landular, mucous, and sarcomatous elements. adenopetaly (ad'e-no-pet's-li), n. [Gr. adin, a gland (nectary), + \(\pi \text{transformation} \) of nectaries into petals.

Aderren.

adenophlegmon (ad'e-nō-fleg'mon), n. [Gr. ἀδήν, gland, + φλεγμονή, inflammation.] Acute inflammation of a gland.

adenopodous (ad-e-nop'ō-dus), a. [Gr. ἀδήν, gland, + ποίς (ποδ-), foot, + -ουs.] In bot., having the petiole or peduncle glandular.

adenoscirrhus (ad'e-nō-sir'us), n.; pl. adenoscirrhis (-rī). [NL., < Gr. ἀδήν, gland, + scirrhus.] A hard cancer which involves a gland.

adenosclerosis (ad'e-nō-sklē-rō'sis), n. [NL., rhus.] A hard cancer which involves a gland. adenosclerosis (ad'e-nō-sklē-rō'sis), n. [NL., ζ Gr. ἀδήν, gland, + σκλήρωσις, a hardening: see sclerosis.] Induration of a gland. adenostemonous (ad'e-nō-stē'mō-nus), a. [Gr.

adenostemonous (ad'e-no-stē'mō-nus), a. [Gr. $\dot{a}\dot{a}\dot{b}\dot{p}\nu$, gland, + $\sigma\dot{\tau}\dot{p}\mu\omega\nu$, taken for 'stamen,' + -ous.] In bot., having glandular stamens. adenyl (ad'e-nil), n. [aden(in) + -yl.] The group $C_5H_4N_4$, formerly assumed to be present in adenin and hypoxauthin. This name is no longer used, but these and related compounds are spoken of as derivatives of *purin (which see). adenylic (ad-e-nil'ik), a. [adenyl + -ic.] Relating to adenyl.—Adenylic add. a nucleinic acid

auchylic (sure-iii) is), a. [auchyli + -ic.] Relating to adenyl.—Adenylic acid, a nucleinic acid obtained from the thymus gland. On decomposition it yields guanine, adenin, cytosin, and thyminic acid.

Adeps lange, purified fat of sheep's wool, containing not cours 30 persons of action.

80 per cent, of water.

Adetopneusia (ad'e-top-nū'si-ā), n. pl. [NL., ⟨(†) Gr. ἀδετος, unbound, loose, + πνεῦσις, a blowing, ⟨ πνεῖν, blow, breathe.] An order of Stelleroidea, the Cryptozonia.

adetopneustic (ad'e-top-nū'stik), a. [Gr. åőeτος, unbound, loose, + πνειστικός, ζπείν, breathe.] Bearing papulæ or dermal branchiæ beyond the abactinal surface.

which forms part of the palatoquadrate arch. adha (äd'hä), n. [Nepalese ädhä, half.] A silver coin of Nepal equal to half a muhr or one fourth of a rupee.

adharma (a-dar'ma), n. [Skt.] Unrighteous-ness; injustice: personified in Hindu mythology as the destroyer of all things.

the aggregate of all those points of a pointaggregate which are not limiting points (that is, limits of endless series of points): called the adherence of the point-aggregate; the aggregate of all the remaining points is called its coherence. s coherence.

adhesion, n. 10. An expression of, or the act by which one expresses, acquiescence in, adherence to, and support of some statement, declaration, or proposal; assent; concurrence.

Up to June 30, 1,787 adherions to the congress had been ecclved.

Science, July 29, 1904, p. 157.

Adhesion weight, the weight which is producing friction; specifically, the weight on the driving wheels of a locomotive.—Primary adhesion, secondary adhesion. Same as *union by first intention and *union by second intention.—Traction of adhesion. Same as friction of rolling (which see, under friction). adhesional (ad-hē'zhon-al), a. [adhesion + -al.] Of the nature of or depending upon adhesion: applied specifically to the action of locomotives when the smooth driving-wheel property is prevented through requires on a plane real is prevented through

locomotives when the smooth driving-wheel, running on a plane rail, is prevented, through the weight of the engine, from slipping on the rail by its adhesion thereto. When the power of the cylinder applied to turn the wheel exceeds this effect of adhesion, and friction of motion ensues by the slipping of the wheel on the rail, the tractive power becomes less. When the grades become too steep for adhesional traction because the cylinder-diameter necessary to overcome the resistance will cause the wheels to slip, the tractive effort must be exerted through toothed gears meshing into a rack or toothed rail, while the weight may be still carried on smooth rails by ordinary wheels.

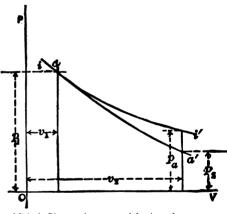
adhesion-rail (ad-hē'zhon-rāl), n. roading, a traction-rail as distinguished from a guard-rail or a third rail; the ordinary rail of a track. Sometimes called service-rail and stock-rail.

adhesiv, a. A simplified spelling of adhesive.
Adhesive papilla. See *papilla.
adhvaryu (ad-vär'yö), n. [Skt. adhvaryu, <
adhvara, religious ceremony.] A Brahman
priest who assists in reciting the prayers of
the Yajur-Veda and performs manual labor at sacrifices.

adiabat (ad'i-a-bat), n. [Gr. ἀδιάβατος, not to be passed over: see adiabatic.] An adiabatic

curve or line.

Adiabatic compression, compression exerted or occur-ring under conditions in which heat neither leaves nor enters the substance compressed.— Adiabatic dia-gram, a graphic method of representing by adiabats the changes as to temperature, pressure, and condition experienced by a unit mass of gas by virtue of any pos-



Adiabatic Diagram, the curve a a' showing a lower pressum e end a' expansion than given for the isothermal diagram ustrates the typical relations of pressure and volume. Horizon sociesas proportional to volumes (V, v); vertical ordinates proposal to pressures (P, p); O, origin.

sible adiabatic change. The adiabatic diagrams for moist air by Hertz (1884) and Neuhoff (1908), and Clapeyron's indicator-curve of the steam-engine, are familiar examples.

adiagnostic (a-di-ag-nos'tik), a. [a-18 + diagnostic.] Not diagnostic; specifically, in petrog., a term, proposed by Zirkel (1893), applied to the phanerocrystalline texture of rocks when the mineral particles, though recognizable, are not specifically determinable without special

test: opposed to *eudiagnostic.

Adianthidæ (ad-i-an'thi-dē), n. pl. [NL., \Adianthus, a genus (for * Adiantus, < Gr. adiavros, unwetted: see Adiantum), + -idæ.] A family of extinct ungulate mammals of the suborder Liopterna, found in the Eocene of Patagonia.

adheat (ad-hēt'), v. t. [ad- + heat.] To superheat (a quantity of steam) by adding to it a
quantity of very highly superheated steam.
adherence, n. 6. In the theory of aggregates,
tum or maidenhair. Encyc. Brit., XXXI. 417. tum, genus of ferns, + L. forma, form.] In adjectiv, a., n., and v. t. A simplified spelling bot., having the form or character of Adiantum or maidenhair. Encyc. Brit., XXXI. 417.

Adjective.

Adjective.

Adjective.

Adjective.

Adjective.

Adjective. adiaphanous (ad-i-af'a-nus), a. [a-18 + diaphanous.] Not transparent; opaque. adiaphon (ad'i-a-fon), n. [G., < adiaphonon.]

form of pianoforte (patented in 1882) in which the sound is produced from tuning-forks instead of from strings: essentially simi-

lar to the older adiaphonon.

adiaphonon (ad-i-af'ō-non), n. [G., < Gr. ά-priv. + διάφωνος, dissonant: see diaphony.] A form of pianoforte, invented by Schuster in 1819, in

which the sound is produced from steel bars instead of from strings.

adiaphoretic (ad'i-af-ō-ret'ik), a. and n. [a-18 + diaphoretic.] I. a. Relating to, produced by, or causing diminution or suppression of

perspiration.

II. n. An agent which diminishes or sup-

presses perspiration.

adiathermancy (a-di-a-ther'man-si), n. [a-18 + diuthermancy.] The character of being adiathermanous; the property by virtue of which a substance absorbs the invisible heatrays of the spectrum: opposed to diathermanen.

adiathermanic (a-dī-a-ther'man-ik), a. [a-18+

diathermanic.] Same as adiathermic.
adiathetic (a-di-a-thet'ik), a. [a-18+diathetic.]
In pathol., occurring without reference to a preëxisting constitutional tendency or diath-

Adibuddha (ä-di-bö'dä), n. [Modern Skt., < Skt. ādi, the beginning, + Buddha, Buddha.] The first Buddha.

adillah (ä-dil'ä), n. A money of Malwa, equal to half a pice.

Adimerids (ad "i-mer'i-dē), n. pl. [NL., < Adimerus + -idæ.] A family of clavicorn Admerus T -uae.] A laining of charteonin beetles. In these beetles the tarsi appear to have but two joints, a broad first and a long terminal one, but they have in fact two minute joints between, hidden by the broad basal joint. This structure is unique among the Colcoptera and is found only in the American genus

Adimerus (a-dim'e-rus), n. [NL. (Sharp, 1894), (Gr. ά-priv. + διμερής, two-parted, two-jointed.] The typical and sole genus of beetles of the family Adimeridæ, consisting of several Central and South American species.

Adinia (a-din'i-a), n. [NL., \langle Gr. adivo, crowded, loud.] A genus of killifishes of the family Pacillidae, found in the Rio Grande

adipogenic (ad'i-pō-jen'ik), a. [L. adeps (adip-), fat, + Gr. -yeving, -producing.] Having the property of producing or of storing fat: as, the adipogenic function of the digestive gland in invertebrates. Jour. Roy. Micros. Soc., Feb., 1905, p. 47.

Feb., 1905, p. 47.

adipogenous (ad-i-poj'e-nus), a. [L. adeps (adip-), fat, + Gr. -γενής, -producing.] Fat-producing; productive of adipose.

adipohepatic (ad'i-pō-hē-pat'ik), a. [L. adeps (adip-), fat, + Gr. ήπατικός, of the liver: see kepatic.] Same as *adipogenic. Jour. Roy. Micros. Soc., June, 1904, p. 303.

adipolytic (ad'i-pō-lit'ik), a. [L. adeps (adip-), fat, + Gr. λυτός, ⟨λύειν, dissolve.] See *lipolytic.

Dercum's disease

adipomatous (ad-i-pom'a-tus), a. [adipoma(t-) + -ous.] Same as lipomatous.

Adipose degeneration. See *degeneration.—Adipose lobe, a small appendage springing from the base of the ventral fin of some fishes, as the salmon and the trout. Usually known as an auxiliary scale.

Adiposis dolorosa, a disease of the nervous system marked by the formation of irregular masses of fat beneath the skin, especially that of the arms and legs, which are the seat of considerable pain. Also called

Adiposorex (ad'i-pō-sō'reks), n. [L. adeps (adip-), fat, + sorex, a shrew-mole.] A genus A genus of small shrew-moles from the Lower Eocene. Adiscota (ad-is-kō'tā), n. pl. [NL., < Gr. ά-priv. + δίσκος, disk, + -ota (see -ote).] A group of dipterous insects. It was based by Weismann upon developmental characters, and includes those forms in which the parts of the fly's head are developed in close relation to those of the larva.

aditus (ad'i-tus), n.; pl. aditus. [NL., < L. aditus, approach: see adit.] An approach; an adit. Specifically: (a) In sponces, ame as prosodus.
(b) In anat., an opening leading into a cavity.—Aditus ad antrum, the communication between the tympanum and the mastold cells.—Aditus ad infundibulum, the opening between the infundibulum and the third ventricle of the brain.—Aditus laryngis, the superior opening of the larynx, or rima glottidis.

An abbreviation of Adjudged, Adjourned.

Adjectival phrase, a phrase that is or may be used with the force of an adjective: as, a much to be desired result; a never to be forgotten occasion.

adjective, n.—Participial adjective, a participle used in an adjective relation, as in the phrases a running stream, a cultivated field, a practised hand, molten irou.—Proper adjective, an adjective derived from a proper name, as American from America, Calvinistic from Calvin, Newtonian from Newton.

adjectivism (ad'jek-tiv-izm), n. Tendency to an excessive use of adjectives. G. S. Hall, Adolescence, II. 467.
adjectivity (ad-jek-tiv'i-ti), n. [adjective + -ity.] Tendency to a free use of adjectives. Athenæum, April 14, 1894, p. 469.

Adjoint curve. Same as adjunct *curve. adjudicative (a-jö'di-kā-tiv), a. That adjudicates or adjudges; that embodies the award, decision, or decree in an adjudication or adjudgment: as, the adjudicative part of a sentence. [Rare.] N. E. D.

Adjunct curve. See *curve.

Adjunct curve. See *curve. adjunction, n. 4. In math., the process of obtaining the domain $\Omega(a)$ from the domain Ω by adding to it the number a which does not already belong to it, and adding also all num-bers arising from a finite number of additions, subtractions, multiplications, and divisions involving a and all numbers in the domain Ω . See the extract.

By the adjunction of i to the domain of rational numers $\Omega(1)$ we obtain the domain of complex numbers (1,i). F. Cajori, Theory of Equations, p. 135. bers Ω Ω(1, i).

adjurn, v. A simplified spelling of adjourn.

Adjusted drainage. See *drainage. adjuster, n. 2. In hardware, any appliance used to regulate the movement of a blind, sash, hitching-strap, shaft, or other moving object in a wagon, house, etc.: as, a casementadjuster, a pole-adjuster, a window-stop ad-juster.—3. In insurance, an officer of an insur-ance company whose duty is to determine the amount to be paid under a policy of insurance when a partial loss has been sustained.

In Great Britain they are for the most part members of the Average Adjusters' Association, a body which has done and is doing much careful work with a view to making and keeping the practice uniform and in accord with right principles. Encyc. Brit., XXVI. 32.

adjustment, n. 6. In an exacter sense than 2. the operation of modifying the relations be-tween a set of things or other objects so as to make these relations conform to some requirement, especially so as to bring them into conformity with relations between elements of a ment, especially so as to bring them into conformity with relations between elements of a plan or purpose. Thus the adjustment of a transit instrument consists, first, in turning it round a vertical axis until its axis of rotation (in using it) is nearly enough in the plane of the prime vertical; second, in raising or lowering one end of the latter axis until it is nearly enough in the plane of the horizon; and, third, in shifting the wires until the collimation is near enough to zero.

7. Specifically, the modification of a set of statements so as to bring them into harmony with one another and with some proposition treated as absolutely true. Thus in geodesy, after an extensive triangulation is complete it will be found that the observed values of the angles do not exactly agree with the principles of geometry and the assumed figure of the earth, which would give rise to much inconvenience. Accordingly by an elaborate series of modifications skilful computers modify the values so that the sum of the squares of all the changes shall be the least possible required to bring the values into agreement with the requirements; and this operation is termed the adjustment of the triangulation. Owing to the fact that the rules are derived from the calculus of probabilities, and that the adjusted values are the most probable that can be assigned, it might be supposed that the purpose was merely to ascertain the most probable values; but the superfority of the adjusted values in that respect is very small and the major consideration is consistency.

8. In biol., a change which is brought about in

8. In biol., a change which is brought about in a living being by its own activity and is not transmitted to descendants, as contrasted with a change which is congenital and hereditary; an acquired character. J. M. Baldwin, Develan acquired character. J. M. Baldwin, Development and Evolution, p. 142.— Methods of adjustment, in psychophya., a group of methods employed for the determination of the relation between stimulus and sensation. The term is used in two senses: (a) for methods in which the observer himself varies a given stimulus (or example, Fechner's method of average error (see *method); (b) for methods in which a variable stimulus for example, Fechner's method of average error, to the required relation to a constant stimulus, for example, Wundt's method of minimal changes (see *method).— Processes of adjustment, in physiog., changes in the courses of streams by means of which they come to sustain definite and stable relations to the rockstructures beneath .- Topographic adjustment. See the extract.

A tributary is in topographic adjustment when its gradient is harmonious with its main.

Chamberlin and Salisbury, Geol., I. 154.

Adjutant's call, in mil. music, a signal on the drum directing the band to pass to the right of the line.

adlea (äd-lä/ä), n. A billon coin of Tripoli, issued in 1827, plated with gold and forced into currency at the value of one dollar.

adlerglas (äd'ler-glas), n. [G., 'eagle-glass. A large drinking glass having on it enameled paintings of the double-headed eagle of the Holy Roman Empire and armorial bearings of 56 principalities and towns: common in Germany in the seventeenth and eighteenth centuries. See *wiederkom.

adlumidine (ad-lö'mi-din), n. [Adlumia (see def.) + -ine².] An alkaloid, C₃₀H₂₉O₃N, found in Adlumia fungosa. It melts at 234° C.

adlumine (ad-lö'min), n. [Adlumia + -ine².] A dextrorotatory alkaloid, C₃₉H₃₉O₁₂N, found Adlumia fungosa.

A. D. M. An abbreviation of Latin Artium Domesticarum Magister, Master of the Domestic

Adm. An abbreviation of admiral.

admedial (ad-mē'di-al), a. [ad- + medial.]
Same as admedian.

admezure, v. t. A simplified spelling of admea-

sure.

administration, n.—All-the-Talents Administration, an ironical name given to the British ministry of 1806-07, in allusion to the distinguished ability of its members.—Limited administration, administration of a personal estate in which the powers of the administrator are granted for a special purpose and are strictly defined and confined to the matters set forth in special or limited letters of administration.

Administrative county. See *county1.

Administrative county. See *county! administration.

Administrative county. See *county! administrative, n. 1. (b) The members of this body are officially designated as the Commissioners for Executing the Office of Lord High Admiral of the United Kingdom of Great Britain and Ireland. The commissioners include Civil Lords, Naval or Sea Lords, and Secretaries. The First Lord of the Admiralty is a civilian and the responsible political head of the organization. Absolute power within the Admiralty, subject only to the King and Parliament, is vested in him. The Sea Lords, four in number, are naval officers, usually admirals. The First Sea Lord makes preparation for war and advises on all large questions of naval policy. He is responsible for the efficiency of the fleet and the distribution of ships. He controls the Intelligence, Hydrographical, and Naval Ordnance departments. The Second Sea Lord is responsible for all questions relating to the personnel of the navy, including manning of the fleet and appointment of officers. The Third Sea Lord and Controler has charge of the materies of the fleet and has under him the Director of Naval Construction and the Engineer-in-Chief. He is also responsible for the administration of the Royal Dockyards. The Fourth or Junior Sea Lord deals with transport, coaling, victualing, and stores, and with questions relating to pay, medals, uniforms, prisons, collisions, etc. The Civil Lord deals with public works, the civil staff, etc. The Partiamentary and Financial Secretary has charge of finances, accounts, and expenditures. The Permanent Secretary signs in the name of the Admiralty, and has charge of the general secretariat, correspondence, etc.—Admirative coefficient.

See *coefficient.* See *coefficient.* admirative coefficients. See *coefficient.* admirative coefficients.

admission, n. 8. Specifically, in engin.: (a)
Entrance of motor fluid (as steam, air, or water)
into a cylinder for the purpose of driving a piston. (b) The portion of a full traverse of a piston during which the motor fluid is allowed to enter the cylinder. (c) The point in the traverse at which such entrance of motor fluid begins.

admission-line (ad-mish'on-lin). n. That line of an indicator-diagram which is made by the pencil of the indicator while steam is being admitted to the cylinder.

admission-port (ad-mish on-port), n. steam-port or -passage through which the entering steam gains access to an engine-cylinder. In engines of ordinary construction, each port is alternately supply and exhaust, though it is usual to apply the latter term only to the port which exhausts directly into the atmosphere. (Lockwood.) In Corliss engines the admission- and exhaust-ports are separate.

admission-valve (ad-mish'on-valv), n. valve which controls the admission of steam, gas, air, or water to a motor- or compressionvlinder.

admittance, n. 6. The reciprocal of the impedance in an alternating-current circuit or the ratio of alternating current divided by the electromotive force consumed by the current. See impedance. The components of admittance are the *conductance and the *susceptance (which see).

admotive (ad-mō'tiv), a. [ad- + motive.]
Characterized by motion toward: as, admotive germination. Syd. Soc. Lex.
adnasal (ad-nā'zal), n. [L. ad, to, + nasus,

nose: see nasal.] In ichth., a name given by

Geoffroy to the premaxillary bone.

adnatum (ad-nā'tum), n.; pl. adnata (-tā).

[NL.: see adnate.] In horticulture, a small or secondary bulb which forms from the old bulb and eventually supplants it; a clove.

adnephrin (ad-nef'rin), n. Same as *adrena-

adnexa (ad-nek'sä), n. pl. [L., neut. pl. of adnexus, pp. of adnectere, annectere: 800 annex.] Connected or associated things; specifically, in anat., appendages or structures accessory to a main organ.—Adnexa oculi, the lids, muscles, and other parts in relation with the globe of the eye.—Adnexa uteri, the Fallopian tubes and ovaries.

adnexal (ad-nek'sal), a. Relating to adnexa, especially to the uterine adnexa.

adnominally (ad-nom'i-nal-i), adv.

SUMPORTHERITY (8d-nom'1-ngi-1), acts. [adnominal $+ ly^2$.] As an adnoun or adjective: as, a verb used adnominally.

Adobe concrete, a building material prepared by mixing broken stone with adobe clay before it is dried or fired.—Adobe mortar, adobe mud prepared specially to serve as mortar in laying adobe brick.

adoccipital (ad-ok-sip'i-tal), a. Noting one of the fissures of the brain near the occipital in the caudal portion of the precuneus.

adolescence, n. — Topographic adolescence, in phys. geog., a stage in the development of relief which is marked by well-established river-drainage.

adolescent, a. 2. In phys. geog., noting that stage of land-sculpture, between youth and maturity, in which some rapids still remain even in the larger streams .- Adolescent river.

adolescential (ad-ō-le-sen'shal), a. Of or per-

adolescential (ad-ō-le-sen'shal), a. Of or pertaining to the period of adolescence.

adon (a-don'), n. A device which consists essentially of a high-power telephoto combination so set as to transmit parallel rays. When used in front of an ordinary lens in a 'fixed-focus' camera it gives an enlarged image without disturbing the focal adjustment. The elements of the adon are, however, adjustable so that it can be used with varying effect when the camera permits of focusing. Used by itself it acts as a high-power telephotographic lens.

as a high-power telephotographic lens.

adonidin (a-don'i-din), n. [Adonis (-id-) (see def.) + -in².] A glucoside of uncertain composition obtained from Adonis vernalis: said to resemble digitalis in its physiological action.

adonin (ad'ō-nin), n. [Adonis (see def.) + -in².] A very bitter non-crystalline glucoside, C24H40O9, found in Adonis Amurensis.

adonite (ad'ō-nit), n. [Adonis (see def.) + -ite².] An optically inactive pentite, C5H7 (OH)5, found in Adonis vernalis and also formed by the reduction of ribose. It melts at 102° C.

at 1020 C

adonitol (a-don'i-tōl), n. [As adonite + -ol.]
Same as *adonite.

adoperate (ad-op'e-rāt), r. t.; pret. and pp. adoperated, ppr. adoperating. [ML. adoperari, < L. ad, to, + operari, work: see operate.] To bring into use or operation; apply; use. Sir J. Hayward, Eromena, p. 88. N. E. D. adoperation (ad-op-e-rā/shon), n. Application;

use, as of means to an end. Peacock, Melincourt, II. 56. N. E. D. adopter, n. 2. An apparatus for the rapid

leveling of a compass, consisting of a spindle, ball, and ball-socket.

adorbital (ad-ôr'bi-tal), n. [L. ad, to, + orbita, orbit: see orbit. In ichth., the preorbital bone.

Adoxaceæ (ad-ok-sā'sē-ē), n. pl. [NL. (Fritsch, 1891), $\langle Adoxa + -acex. \rangle$ A family of dicotyledonous, sympetalous plants of the order Rubiales. It contains only the genus Adoxa, and is characterized chiefly by the split or 2-parted stamens inserted on the tube of the corolla.

adoxaceous (ad-ok-sā'shius), a. [NL. Adoxa-

cc-æ + -ous.] In bot., having the characters of or belonging to the family Adoxaceæ. ad placitum (ad plas'i-tum). [ML., NL.] At

pleasure: in *music*, noting a free part in a contrapuntal work which is not bound by the strict rules of imitation; especially, in a canon, noting a voice-part that does not follow the subject exactly

adradial, a. 2. Pertaining to an adradius: as, the adradial organs of an echinoderm.

adradius (ad-rā'di-us), n.; pl. adradii (-ī). [NL, < L. ad, to, + radius, ray.] One of the ight radii which lie between the perradii and the interradii in animals which exhibit radial symmetry. Compare perradius and interradius.

adrenal. n.—Accessory adrenals. See Marchand's **adrenals.—Marchand's adrenals, islets of adrenal tissue found in other parts. Also called accessory adrenals and adrenal rests

II. a. Situated near or in contact with the

money; specifically, noting the adrenal or suprarenal glands.—Adrenal extract, a medicinal preparation made from the suprarenal glands and believed to be the internal secretion of these bodies. It increases blood-pressure and constricts the vessels, and is employed to arrest hemorrhage and to diminish mucous secretion. See *adrenalin.—Adrenal gland. Same as adrenal, n.—Adrenal rests. See **Barchand's **adrenals**. kidney; specifically, noting the adrenal or su-

advance

adrenalin (ad-ren'a-lin), n. $[adrenal + -in^2.]$ The active principle of the adrenal glands, first isolated by a Japanese chemist, Takamine. Its probable formula is CloHl3NO3. H120. It is practically identical with Abel's epinephrin, and is a powerful heart-atimulant and hemostatic. See **adrenal extract.

adrenalone (ad-ren'a-lon), n. [adrenal + -one.] A ketone, (HÖ)₂C₆H₃COCH₂NHCH₃, prepared by the oxidation of a derivative of adenalin drenalin.

Adrianist (a'dri-an-ist), n. Same as Adrian-

Adriatic, a. Adriatic, a. 2. In anthrop., of or pertaining to the racial type represented by Albanians and Serbo-Croatians, characterized by tall stature, elongated face, and short head. Deni-ker, Races of Man, p. 285.

adsmith (ad'smith), n. One whose business is the writing of advertisements: as, the art of p. 265. [Humorous slang.]
adsmithing (ad'smithing), n. The trade of an 'adsmith.' [Humorous slang.] the adsmith. W. D. Howells, Lit. and Life,

an 'adsmith.' [Humorous slang.]

adsorb (ad-sôrb'), v. t. [L. ad, to, + sorbere,
suck in. Cf. absorb.] To gather (a gas or liquid) on the surface in a condensed layer Thus solids, such as glass, gather gases and liquids with which they are in contact.

adsorption, n. 2. The mechanical imbibition

adsorptive (ad-sorptive), a. [adsorb (-sorp-) +
-tive. Cf. absorptive.] Capable of or characterized by adsorption.

adsternal (ad-ster'nal), a. [L. ad, to, + ster-num, sternum.] Situated near or in relation with the sternum. [L. ad, to, + ster-

a due (ä dö'e). [It.] By twos: in music, employed when two voices or instruments use the same staff, to indicate that the two are to pro-

ceed in unison: opposed to divisi.

adularescence (ad-ū-la-res'ens), n. [adular(ia) + -escence.] The chatoyancy of the adularia + -escence.] The chatoyancy of the adularia variety of feldspar; the moon-like sheen of the moonstone, best visible when the stone is cut with a convex dome.

adult, n. 2. Specifically: (a) In civil law, a male infant who has attained the age of fourteen, or a female infant who has attained the

age of twelve. (b) In common law, one of the full age of twenty-one. Bouvier, Law Dict. adulterin, a. and n. A simplified spelling of adulterism (a-dul'ter-izm), n. A name or word

that has been corruptly altered. [Rare.] N. E. D. adulthood (a-dult'hud), n. [adult, a., + -hood.]
The state of being adult or completely developed: as, in full vigor and adulthood. Cowden Clarke. N. E. D.

adumbra (ad-um'bra), n.; pl. adumbræ (-brē). The penumbra, in an eclipse of the moon.

adumbrella (ad-um-brel'a), n. [NL.. < L. ad, to. + umbrella, a little shade.] The upper surface of the velum in jelly-fishes: distinguished from exumbrella.

aduncirostrate (a-dun-si-ros'trāt), a. [L. ad-uncus, hooked, + rostrum, beak, + -atel.] Having a hooked beak, as birds of prey.

adurol (ad-ū'rol), n. A trade-name for two compounds used as photographic developers.

Adurol "Schering" is bromhydroquinone, C₆-H₃Br(OH)₂; adurol "Hanff" is chlorhydroqui-

none. adv. An abbreviation of advocate.

advaita (äd-vi'tä), n. [Skt. advaita, non-duality, unity, (a-priv. + dvaita, duality, (dri-, two.]

The pantheistic doctrine of the Vedanta school of Hindu philosophy, taught especially in Shankara's commentary on the upanishads. The doctrine is that atman, self, is Brahman, the

n. 13. The angular interval in exadvance, n. 13. The angular interval in excess of 90° which the center-line of an engineeccentric makes with the center-line of the engine-crank. It is given to enable a valve with lap, which will work the steam expansively, to begin admission of steam at or before the dead-point of the piston-traverse. See angular advance of an excentric, under *anaular*.

14. In fencing, a quick move of the right foot a few inches forward, followed instantly by



the left foot, but so that the fencer keeps his equilibrium and is ready for parry, or the forward lunge of the right foot.

advance-growth (ad vans'groth'), n. In for-

estry, young trees which spring up in accidental openings in the forest or under the forest cover, before reproduction cuttings are begun. See volunteer *growth.

advancement, n. 6. In surg., an operation for strabismus, consisting in dividing the tendon of the healthy muscle, bringing the end forward, and fastening it to the eyeball forward of its former point of insertion.

advancing (ad-van'sing), n. The act of taking or of giving an advanced position; advancement; promotion; furtherance. [Obso-

vancement; promotion; furtherance. [UD80-lete or rare.]

Advent Sunday, the first Sunday in Advent, or that nearest St. Andrew's day (Nov. 30).

adventitious. Jour. Exper. Med., VI. 69.

adventitious. a. 4. In phytogeog., naturalized from a distant formation: opposed to *vicine.

A term proposed by Pound and Clements. Compare adventitious, 2.

adventurism (ad-ven'tūr-izm), n. The ways, habits, and schemes of the adventurer or adventuress; the practices, pretenses, or experiences of those who live by their wits.

adventuresum, a. A simplified spelling of adventuresome.

adventuresome.

adverb, n.—Flat adverb, a substantive or an adjective placed in an adverbial position (so called by J. Rarle, Philol. Eng. Tongue, § 489): as, forest wild; to look bad; to walk slove; "with foreheads villatinous low," Shak., Tempest, iv. 1. 274. Some adverbs of this type are, however, reduced forms of Middle English or Anglo-Saxon adverbs with an adverblal suffix (-s), from the adjective with which they have later become identical in form.—Flectional adverb, an adverb formed of a case of a formorly inflected noun, as mornings, evenings, needs, darkling, upward (genitives), whilom, seldom (datives): as, he is usually at home evenings; "he must needs go through Samaria," John iv. 4; "the wakeful bird sings darkling," Milton, P. L., iii. 38, 39.—Phrasal adverb, an adverb consisting of a phrase or clause; an adverbial clause: as, of course, of a truth, at random, in an instant, little by little.—Relative pronoun, relates to an antecedent, and usually introduces an adverbial clause, as when, whence; as, at the place where the accident occurred; at a time when he was not expected.

3dverbial, d.—Adverbial clause, in gram, a clause

adverbial, a.— Adverbial clause, in gram., a clause or phrase which serves as an adverb: as, he met with an accident on his way home.

II. n. An adverbial word or clause, as truly,

exceedingly, of course, to-day, as soon as he

adverbiation (ad-ver-bi-ā'shon), n. [NL. *adverbiatio(n-), < L. adverbium, adverb.] An extended phrasal adverb. See the quotation.

Boom must be given to the term Adverb to let it take in all that appertains to the description of the condition and circumstances attendant upon the verbal predication of the sentence. . . . I would propose that for such extended phraseological adverbs we adopt the title of Adverbiation.

J. Barte, Philol. Eng. Tongue, p. 481.

adverbism (ad'verb-izm), n. Tendency to an excessive use of adverbs. G. S. Hall, Adolescence, II. 467.

advertisemental (ad-ver-tiz-men'tal), a. [adwertisement + -al.] Relating or pertaining to advertising or to advertisement. [Rare.] advisal (ad-vi'zal), n. [advise + -al.] Advice; counsel. J. S. Blackie, Æschylus, I. 197.

[Rare.]

advize, v. A simplified spelling of advise.
advolution (ad-vo-lū'shon), n. [L. ad, to, +
volvere, roll: formed on type of evolution.] An
onward rolling or unfolding; progressive development; the theory of evolution considered
with regard to its trend or ultimate developments. See the extract.

Why should Evolution stop with the Organic? It is surely obvious that the complement of Evolution is Advolution, and the inquiry. Whence has all this system of things come, is, after all, of minor importance compared with the question, Whither does all this tend?

H. Drummond, Nat. Law in Spiritual World, p. 401.

adynamandry (a-din-a-man'dri), n. [Gr. aδιναμος, without power, + ανήρ (ανδρ-), man (male).] In bot., self-sterility; incapability of self-fertilization. Delpino.

adynamical (a-dī-nam'i-kal), a. Not dynami-

The properties of electric and magnetic force are explicable upon dynamical principles; so far there is no known necessity for seeking for adynamical properties

adz-block (adz'blok), n. A solid oblong block

8.-2

Jour. Inst. Electric Engineers (Brit.), 1889-1900, p. 396.

the cutters or plane-irons of a wood-planing machine. Lockwood. Adzuki bean. See *bean1.

Adzuki bean. See *bean¹.

Eacid (ô'a-sid), n. [L. Eacides, ⟨Gr. Alaxiôns, ⟨Alaxos, Æacus.] A son or descendant of Æacus (who was a son of Zeus and Ægina, and after death a judge in the lower world), especially: (a) Peleus; (b) Achilles; (c) Telamon: (d) Aiax. Each leus; (b) Achilles; (c) Telamon; (d) Ajax... Racid shield, the shield of the Telamonian Ajax, which was represented on the coins of ancient Salamis in Greece. It assumed a peculiar form resembling types found in the Dipylon and Mycensean periods.

8080 (S. A. S.) n. [Hawaii]

waiian = Maori arcore, the name of a small tree (see *ake).] A name in Hawaii of Lycium Sand-sicense. an erect shrub waiian = Maori akeake, wicense, an erect shrub from two to three feet

high, with stiff, smooth branches. It grows along the sea-coast, and bears a red berry which is edible but not very palatable. Also called ohelo-kai.

secial (6'shial), a. [< Gr. aixia, an injurious effect.] Same as secidial. J. C. Arthur.

Ecidial form, stage. Same as secidiostage.
Seciospore (ē'si-ō-spōr), n. [Gr. aiκία, an injurious effect, + σπορά, a spore.] Same as secidiospore. J. C. Arthur.

jurious effect, $+ \sigma \pi o \rho \dot{a}$, a spore.] Same as secidiospore. J. C. Arthur.

secium (ē'shium), n. [NL., < Gr. aiκia, an injurious effect.] A term proposed by J. C. Arthur for the secidial stage of the rust fungi, Uredinales. Same as secidiostage.

Asdes (ā-ē'dēz), n. [NL. (Meigen, 1818), < Gr. aŋôŋc, unpleasant, odious, < â- priv. + ŋôic, pleasant.] A genus of small mosquitos of the dipterous family Culicidæ. They have the palpi in both sexes less than half as long as the proboscis (2-jointed in the male and 4-jointed in the female), and have no bluish scales on the upper side of the thorax and no bristles below the scutellum. Several species are known. Aĕdes fuxus inhabits the northern United States.

segagropila, n. 2. [cap.] pl. Marine algse

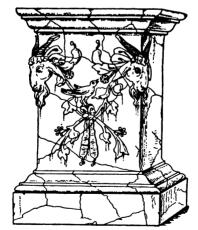
ægagropila, n. 2. [cap.] pl. Marine algæ which form more or less spherical masses and are freely driven from place to place.

megagropilous (ē-ga-grop'i-lus), a. [Gr. alγαγρος, the wild goat, + L. pila, a ball, + -ous.] Noting the dense tufted condition assumed by certain algæ, particularly the cladophoras. Athenæum, IV. 363.

ægialosaur (ē-ji-al'ō-sār), n. A reptile of the genus Ægialosaurus.

genus Asymonaurus.

segicrania (ë-ji-krā'ni- \ddot{a}), n. pl. [NL., \langle Gr. alf $(ai\gamma$ -), goat, + $\kappa \rho aviov$, skull.] In Rom. antiq., the heads of goats or rams used in the sculptured decoration of altars: suggested by the custom of hanging up the heads of victims



Ægicrania. - Altar in the Vatican, Rome

Æginidæ, n. pl. 2. A family of Narcomedusæ, having a circular canal communicating with the stomach by double peronial canals, with internemal gastral pouches, and without otoporpæ. It contains the genera Ægina, Ægineta, $ilde{m{E}ginops}$ is, and others.

Eglina (ë-gli'nä), n. [NL., \langle Gr. $Aiy\lambda\eta$, a nymph, $+-ina^1$.] A genus of asaphid trilobites. They are remarkable for their immense compound eyes, which give them a strikingly larval aspect: found in the Lower Silurian of Europe.

of iron or steel, square in section, which carries Ægocera (ē-gos'e-rä), n. [NL. (Latreille, 1809),

 $\langle al\xi~(\dot{a}\iota\gamma\text{-}),~goat,~+\kappa\ell\rho a\varsigma,~horn.]$ An interesting genus of East Indian moths of the family Agaristides. The male of A. tripartita makes a peculiar clicking noise while flying; it is produced by a special structure on the front wing, which is rubbed against the spines of the front feet.

of the front feet. **Egoceratidæ** (ē-gō-se-rat'i-dō), n. pl. [NL., \langle *Egoceras, \langle Gr. $ai\xi$ $(ai\gamma 6\zeta)$, goat, + $\kappa\ell\rho\alpha\zeta$ $(\kappa\ell\rho\alpha-\tau 6\zeta)$, horn, + -idæ.] A family of ammonoid cephalopods or ammonites. They have smooth, discoldal shells with broad umbilicus and highly specialized complicated septal sutures. The species occur in the Triassic formation.

Ælurodon (ē-lū'rō-don), n. [Gr. alλουρος, a cat or a weasel, + οδούς (-ουτος), a tooth.] A genus of Canids of the North American Miocene, with affiliations with the bears.

ælurophobia (ē-lū-rō-fō'bi-ā), n. [Gr. αίλουρος, cat, + -φοβία, ⟨φοβεῖν, fear.] A morbid dislike or fear of cats.

aëneofuscous (ā-ē'nē-ē-fus'kus), a. [L. aëneus, of brass, + fuscus, fuscous.] In entom., of the color of dirty brass.

aëneolithic (ā ē 'nē-ō-lith' ik), a. [L. aëneus, brazen, + Gr. λίθος, stone.] Pertaining to the period in which both metal and stone implements were used: a term introduced by Italian archæologists.

aëneous (ā-ē'nē-us), a. [L. aëneus, of brass.] In entom., having brassy or metallic reflections.

member of the amphibole group. It occurs in black prismatic crystals in the sodalite syenite of southern Greenland and similarly elsewhere. It is a titano-silicate of ferrous iron and sodium.

Æolian, n. 2. Same as Æolic.

Eolic digamma, the digamma (which see).

zeolidoid (ē-ol'i-doid), a. [zolid + -oid.] Having the form or characters of the Zolididz.

seolina, n. 2. An organ-stop of a thin, delicate tone.

zeolipile, n. 2. A form of blast-lamp for use in chemical laboratories, in which an alcohol flame is deflected by a stream of alcohol vapor escaping from a jet, this vapor being produced from liquid alcohol in a little boiler over the original flame.

solodicon (ē-ō-lod'i-kon), n. [Gr. Alολος, Æo-lus, + ώθ, song, + -icon, as in harmonicon.]

A musical instrument, played from a keyboard, the tone of which was produced in one variety by the blows of hammers upon steel springs, and in another from free reeds, as in the harmonium. Neither form attained artistic importance.

æolodion (ê-ō-lō'di-on), n. [Gr. Αlολος, Æolus, + Gr. ψόη, song, + -ton, as in melodion.] Same as *æolodicon.

as *#wolodicon (6'\$\tilde{0}\$-l\tilde{0}\$-me-lod'i-kon), n. [Gr. Aloλos, Æolus, + μελφός, musical (see melodion), + -icon, as in harmonicon.] A musical instrument of the pipe-organ class, invented by Hoffmann of Warsaw about 1825. Its chief peculiarity was that metal tubes were placed in front of the mouths of the pipes, to impart to them special qualities imitating various instruments and to strengthen the tone. The use of these resonators was under the control of the player. Also called choralom.

æolopantalon ($\tilde{e}'\tilde{o}$ - $\tilde{l}\tilde{o}$ -pan'ta-lon), n. [Gr. Aloλoc, Æolus; second element uncertain.] An meolomelodicon having a pianoforte attachment which could be used with or without the organ tones

eolophon (ē'ō-lo-fōn), n. [Appar. G., < Æolus + Gr. -φωνος, < φωνή, sound.] A form of seraæolophon (ē'ō-lo-fōn), n. phine.

æolotropism (ē-ō-lot'rō-pizm), n. The state or condition of æolotropy.

meonial, a. See *eonial.

æonologe (δ'on-ō-lōj), n. [Gr. αίων, an age, + -λόγιον, < λέγειν, tell: formed on type of horologe.] An imagined clock that measures time by eons or ages. See the quotation. [Rare.]

The horologe of earth . . . is no measure for the æonologe of heaven.

F. W. Farrar, Early Days of Christianity, p. 511.

æqualis (ē-kwā'lis), n. [L., equal.] In gram., the case which expresses similarity (like, similar to). Also called similative. Barnum, Essen. of Innuit, p. 17.

Æquidens (6'kwi-denz), n. [NL., \lambda L. æquus, equal, + dens, tooth.] A genus or subgenus of South American Cichlidæ: they resemble the sunfishes of the north.

aërage (ā'e-rāj), n. [F. aérage, < L. aer, < Gr. aπρ, air.] Airing; ventilation.

acrate, v. t.— Acrating plants, epiphytes.— Acrating roots, roots which rise out of the water or mud, provided with a loose corky tissue with large cellular interspaces adapted to scratten, as the "knees" of the bald

aërenchyma (ā-e-reng'ki-mā), n. [NL., ζ Gr. aήρ, air, + εγχυμα, infusion.] A tissue consisting of thin-walled cells with large, intercellular spaces, adapted to aeration. It occurs in the stems of certain marsh plants. Schenk.

aërialist (ā-ē'ri-al-ist), n. [aërial + -ist.] An aërial navigator; one skilled in aëronautics. [Rare.]

[Kare.]
aërobia, n. pl.—Facultative aerobia, bacteria, normally anaerobic, which have acquired the capacity of living and growing in the presence of oxygen.
aërobic (ā-e-rō'bik), a. Same as aërobian.—Facultatively aërobic, having the ability to live either in the absence or in the presence of oxygen.
aërobiont (ā-e-rō-bi'ont), n. Same as aërobe.

aërobioscope (ā'e-rō-bī'ō-skōp), n. An apparatus for collecting bacteria from the air.

aërobium (ā-e-rō'bi-um), n. Singular of aërobia (which see).

aëro-club (å'e-rō-klub'), n. [Gr. àhp, air, + E. club.] A club or association devoted to the promotion and practice of aëronautics or aviation.

aërocondenser (ā'e-rō-kon-den'ser), n. [Gr. a'ηρ, air, + E. condenser.] A form of surface-condenser for changing the vapor of water, or any other vapor, back into a liquid by the withdrawal of heat by means of a rapid circulation of air. It is much used as a means of cooling and condensing in motor-vehicles. The vapor to be condensed is contained in a chamber through which pass a great number of tubes, the air being made to move at speed through the latter.

through the latter.

abroconiscope (ā'e-rō-kon'i-skōp), n. [Gr. ἀήρ, air, + κόνις, dust, + σκοπείν, view.] An apparatus for collecting dust for future examination. Also abrokoniscope. R. E. Maddox.

abrocurve (ā'e-rō-kerv), n. [Gr. άήρ, air, + L. curvus, curve.] A curved surface intended for the support, in the air, of a gliding- or a flying-machine. See *abroplane, 1.

One of the most difficult questions connected with the

One of the most difficult questions connected with the problem of serial navigation is the longitudinal stability of a machine supported on sero-planes and aëro-cures.

Rep. Brit. Ass. Advancement of Sci., 1902, p. 524.

aërodrome (ā'e-rō-drōm), n. [Gr. ἀήρ, air, + -dρομος, ζ ὁραμειν, run.] 1. A flying-machine supported by aëroplanes and having a motor supported by aëroplanes and having a motor and a rudder for navigating the air; specifiard aerophysics (ā'e-rō-fiz'iks), n. [Gr. αηρ, air, cally, a machine of this kind invented and + E. physics.] The physics of the atmosphere. named by S. P. Langley.—2. A course for aeroplane (ā'e-rō-plān), n. [Gr. αηρ (αερ-), air, the physics of the atmosphere. The physics of the atmosphere.

1. A plane or curved (see *aero-plane).

aërodromic (ā'e-rō-drom'ik), a. [aërodrome + -ic.] Of or pertaining to aërodromes or flyingmachines. A. G. Bell, in Smithsonian Rep., 1896, p. 6.

abrodromics (ā'e-rō-drom'iks), n. [As aërodrome + -ic.] The art of navigating the atmosphere by means of engines and balloons, but especially by means of aëroplanes or aërocurves driven by machinery. S. P. Langley, in The Aeronaut. An., 1897, p. 13.

abrodyne (ā'e-rō-dīn), n. [Gr. ἀρρ, air, + δίναμα, power.] See the extract.

I use the word "aërodyne" in preference to "flying-machine," to denote an aeroplane-supported machine, driven by mechanical power through the air.

W. R. Turnbull, in Phys. Rev., March, 1907, p. 286.

aërogram (ā'e-rō-gram), n. [Gr. ἀήρ, air, + γράμμα, a writing.] A message transmitted **Marogram** (a e-ro-gram), n. [Gr. $a\eta \rho$, air, τ $\gamma \rho \dot{a}\mu \mu a$, a writing.] A message transmitted through the air, especially one transmitted by wireless telegraphy. *L. de Forest*, in N. Y. Com. Advertiser, Jan. 31, 1903.

aërograph (ā'e-rō-grāf), r. [Gr. ἀήρ, air, + γράφειν, write.] I. trans. To transmit or send through the air by wireless telegraphy: as, to aërograph the state of the money-market to London or Paris. N. Y. Com. Advertiser, Jan.

31, 1903.

II. intrans. To communicate by means of wireless telegraphy; use wireless telegraphy in communicating with others. [Recent in both uses.]

aërohydropathy (ā'e-rō-hī-drop'a-thi), n. [Gr. $a''_{1}\rho_{1}$, air, + E. hydropathy.] Combined waterand air-cure.

aërohypsometer (ā"e-rō-hip-som'e-ter), n. [Gr. āἡρ, air, + E. hypsometer.] A simple form of air-barometer devised by G. Govi of Turin in 1867 for measuring small differences of altitude by measuring the expansion under

varying pressures of a short column of air whose temperature is constant or is known. Also aërypsometer.

aëroides (a-e-roi'dēz), n. A pale sky-blue variety of beryl.

aëroklinoscope, aërokoniscope, n. See aëro-clinoscope, *aëroconiscope.

aëromechanics (å'e-rō-mō-kan'iks), n. [Gr. a'np, air, + E. mechanics.] The mechanics of the atmosphere or, in general, of gases; the science of the action of forces on gases; pneumatics. aëromotor (ā'e-rō-mō'tor), n. [L. aer, air, + motor, motor.] 1. An air-ship; a vehicle for navigating the air.—2. A form of windmill using metallic vanes or sails.

aëronat (ā'e-rō-nat), n. [aëro- + L. nat(are), swim, float.] See the extract. [Rare.]

Aëronat is a dirigible, motor-driven balloon, or air-ship.
Sci. Amer. Sup., Feb. 20, 1909.

aëronef (a'e-ro-nef), n. [F. *aéronef, < L. aer, abronal (a e-10-let), n. [F. derone), \(\Lambda\). L. der, \(\alpha\), air, + F. nef, \(\Lambda\) L. navis, ship.] An airship; specifically, one heavier than air. abrophagia (\(\bar{a}'\)e-r\(\bar{o}\)-f\(\bar{a}'\)ji-\(\bar{a}\)), n. [NL., \(\lambda\)c. dr, \(\alpha\)represent (at \(\epsilon\)), air, + \(-\alpha\)ria, \(\phi\)represent (at \(\epsilon\)), eat.] The swallow-

ing of air sometimes observed in hysteria.

aërophilous (ā-e-rof'i-lus), a. [Gr. $\dot{a}\dot{\gamma}\rho$, air, + $\dot{\phi}\dot{\iota}\lambda o_{7}$, loving.] Air-loving: applied to bacteria and other organisms which require air

for their development. See aërobian.

aërophobic (a'e-rō-fō'bik), a. Of or pertaining to aërophobia; afraid of air; having a morbid dread of currents of air.

aërophone, n. 2. An instrument having the functions of both an ear-trumpet and a speaking-trumpet.

aërophore, n. 2. An instrument for filling with acrophore, n. 2. An instrument for filling with air the lungs of a still-born child.—3. In textile spinning-rooms, a device used to diffuse moisture throughout the air. An excess of moisture is required both to make shrinkage-effect uniform and to counteract the electrifying action of the rapidly moving belts and other elements of the machines.

aërophorus (ā-e-rof'e-rus), a. [Gr. $\dot{\alpha}\dot{\eta}\rho$, air, + $\phi o\rho o \varsigma$, $\langle \phi \dot{\epsilon} \rho \epsilon \dot{\nu} v$, bear.] Containing or conveying air: same as aëriferous.

aërophysical (ā'e-rō-fiz'i-kal), a. [Gr. ἀήρ, air, + ψουκός, physical.] Of or pertaining to aërophysics or the physics of the atmosphere; specifically, relating to the atmospheric conditions of heat and cold, dryness and humidity.



Wright Brothers' Aeroplane (biplane). A, rudder; B, dipping-planes.



Bleriot's Aëroplane (monoplane). A, engine; B, rudder; C, dipping-plane

curve) surface, used to sustain a flying-machine or a gliding-machine in the air, or in aerodynamor a girding-machine in the air, or in aerodynamical experiments. As the machine moves through the air, the aëroplane (commonly a light framework covered with a fabric), set at a small angle above the horizontal, tends to support it by its lifting-power. Flyingmachines in which aeroplanes are so used are also called 'aëroplanes' (see def. 2): those in which support in the air has been sought by the movement ('flapping') of such surfaces in imitation of the action of the wings of birds are called 'ornithopters.'

2. A flying-machine driven by an engine and supported by the pressure of the air upon the under side of plane or curved surfaces known as 'aëroplanes' or 'aërocurves.' (See def. 1.) Various attempts to attain flight, in "heavier-than-air"

machines, by means of the lifting-power of aëroplanes (surfaces) were made during the second half of the nineteenth century. Models of flying-machines of this type, more or less successful, were constructed by Stringfellow in 1847 and 1868 and by Moy in 1874 and Tatin in 1879. But the most important advances toward the solution of the problem were made in the aërodynamical investigations of S. P. Langley and Sir Hiram Maxim, and in the experiments of O. Lilienthal, O. Chanute, and others with gliding-machines. Langley perfected a model of an aëroplane (his "aërodrome") propelled by a steam-engine (burning naphtha), which in November, 1896, flew about three quarters of a mile. Experiments with gliding-machines were begun by Orville and Wilbur Wright in 1900, and on December 17, 1903, an aëroplane constructed by them and propelled by a gasolene motor rose from the ground and made a flight of 260 meters in 59 seconds — the first instance of successful mechanical flight by man. From that time the development of the aeroplane by the Wrights and others (Voisin, Farman, Curtiss, Heirot, Latham, etc.) has been rapid and extraordinary results have been attained. The machines in successful use are of two general types: 'biplanes' (Wright, Curtiss, Voisin, Farman, etc.) having two aëroplanes (surfaces) placed one above the other, and 'monoplanes' (Antoinette, Bleriot, etc.) having one aeroplane (surface) or two laterally disposed. On Dec. 31, 1908, Wilbur Wright made, in France, a flight of 2 hours and 20 minutes, a period surpassed on August 7, 1909, Wilbur Wright made, in France, a flight of 2 hours and 20 minutes, a period surpassed on August 7, 1909, Wilbur Wright, at Fort Myer, made a cross-country flight of ten miles, with a passenger, at the rate of over 42 miles an hour. A record for speed was made by Curtiss, in a biplane, at Rheims on August 28, 1909, when he made 12.42 miles in 16 min. 509 sec. On July 25, 1909, Bleriot crossed the English Channel from Calais to Dover in a monoplane, in about 40 minutes.

aëropleustic (ā'e-rō-plös'tik), a. [Gr. ἀήρ, air, + πλευστικός, adj., ⟨πλεῖν, sail.] Of or pertaining to aërial navigation or the art of sailing

in the air. N. E. D. [Rare.] abrorthometer (a er or thom e-ter), n. [Gr. $a\eta\rho$, air. $+ \dot{\rho}\rho\theta\dot{\phi}_{c}$, straight, $+ \mu\dot{\epsilon}\tau\rho\sigma\nu$, measure.] An instrument in which an air-thermometer

and a barometer are combined.

aërosphere, n. 2. The spherical mass of any gas surrounding a molecule or atom and tem-

porarily constituting a unit with it.

aerostat, n. 3. In cutom., a tracheal dilatation forming an air-sac, as in the abdomen of the honey-bee and certain other insects. [Rare.]

Lerostatic setæ. See *seta. aërotaxis (â'e-rō-tak'sis), n. [Gr. $a\eta\rho$, air, $+\tau a\xi \nu$, disposition, order.] The movement of cells or organisms in relation to a source or supply of air.

aërotherapy (ā'e-rō-ther'a-pi), n. [Gr. $\dot{a}\eta\rho$, air, $+\theta\epsilon\rho a\pi\epsilon ia$, medical treatment.] Same as

aerotherapeutics.
aerotropism, n. 2. In general, the bending or growth of organisms in relation to a source or supply of air.

aërypsometer (ä'e-rip-som'e-ter), n. Same as

Esculacese (es-kū-lā'sē-ē), n. pl. [NL. (Lindley, 1841), & Esculus + -aceæ.] A family of dicotyledonous choripetalous plants of the order Sapindales, typified by the genus Æsculus. See Hippocastanaceæ.

sesculetic, a. See *esculetic.

Jour. Hel. Studies, XIII. 300. **esthacyte**, n. See esthacyte. **esthesia**, n. 2. In bot., the capacity of an organ to respond to physical stimuli. Czapek. **esthesin** (es-thē'sin), n. [Gr. aioθησις, feeling, $+in^2$.] A compound, $C_{35}H_{69}O_3N$, formed by the hydrolysis of phrenosin.

ssthesiomania, n. See *esthesiomania.

ssthetal (es-the'tal), a. [Gr. aiσθητός, perceptible (see esthete, esthetic), + -al¹.] Sensory.

I propose to call the sensory cells, or sense-centres, aesthetal cells. Haeckel (trans.), Wonders of Life, p. 14. sestivo-autumnal, a. See *estivo-autumnal. sethochroi (ē-thok'rē-i), n. pl. [NL., ⟨Gr. αἰθός, burnt (see Ethiop), + χρόα, color.] Races of black color; the negroes of Africa, the Melanesians, Papuans, and Australians. Also ethochroi.

ethochroi. æthokirrin (ē-thō-kir'in), n. [Gr. alθος, fire (see ether), + κιρρός, tawny, yellow.] The yellow coloring matter of Linaria Linaria, the common toad-flax. wtiatic (ē-ti-at'ik), a. [Also aitiatic, < Gr. aiτιατικός, < aiτία, cause: see ætiology and accusative.] Causal, as when a quality is supposed to exist in an object which is suggested by its name; accusative.

As to the whiteness of the dog, it will be noticed that this is only insisted upon in the passage of Heavenius, and is evidently due to an attractic exposition of the ter-

Cecil Smith, Jour. Hellenic Studies, XIII. 117.

Etiological myth, a myth accounting for the origin of a

Actobatina (a'e-tō-bat'i-nō), n. pl. [Actobatus + -inæ.] A subfamily of sting-rays typi-

find by the genus $A\ddot{e}tobatus$.

Actobatis (\ddot{a} -e-tob's-tis), n. [NL., $\langle Gr. \dot{a}e\tau \phi \zeta$, eagle, $+ \beta a\tau \dot{c}_{\zeta}$, a ray (fish).] A later variant of $*A\ddot{e}tobatus$.

or *Aetobatus (ā-e-tob'a-tus), n. [NL., ⟨Gr. ἀετός, eagle, + βάτος, a ray (fish).] A genus of stingrays of the family Myliobatidæ. A. narinari is the common species and is widely diffused. It is brown, with many large yellow spots.

aëtosaur (ā e-tō-sār), n. A reptile belonging

to the genus Aëtosaurus.

aëtosaurian (ā'e-tō-sâ'ri-an), a. and n. I. a. Pertaining to or having the characters of A".

tosaurus.

II. n. Same as *aëtosaur.

afaint (a-fānt'), adv. $[a^3 + faint.]$ In a fainting state or on the point of fainting.

affect², n. 3. In psychol.: (a) The felt or affective component of a motive to action; the incentive, as opposed to the inducement, to act. See the extract.

Affects... are the feeling antecedents of involuntary movements; as motives, including affects [and ends], are the inner antecedents of acts of will.

J. M. Baldwin, Handbook of Psychol., II. 314.

(b) Emotion.—4. In Spinoza's philosophy, a modification at once of the psychic and the physical condition, the former element being called an *idea* and the latter an *affection*.

affection, n. 10. In recent psychol., the elementary feeling-process; the pure or qualitatively simple feeling, in which there is no admixture of sensation. See the extract.

They [the mental elements] are very numerous: . . . but they may all be grouped into two great classes, as sensations and affections.

B. B. Tüchener, Primer of Psychol., p. 21.

11. In trigon., relation to $\frac{\pi}{4}$. In right-angled spherical triangles, angle A and side a are either both greater or both less than $\frac{\pi}{4}$. This is expressed by saying that A and a are of the same affection.

12. In law, the making over, pawning, or mortgaging of a thing to assure the payment

of a sum of money or the discharge of a sum of money or the discharge of so other duty or service. Bouvier, Law Dict.

affective, a. 3. In psychol., relating to, characterized by, or consisting of affection: as, the affective side of the mental life; affective experience.—Affective curve, in psychol., a graphic expression of the correlation of some attribute (intensity. expression of the correlation of some attribute (in ensity, quality) of affection with some attribute of stimulus or sensation. E. B. Titchener, Exper. Psychol., I. i. 106.—Affective memory, the revival, in affective terms, of past affective experience. Ribot, Psychol. of Emotions, p. 183.—Affective process, in psychol.: (a) An affection. (b) A mental complex of which affection is characteristic or in which it is dominant.—Affective tone, in psychol., affection considered with reference to the sensory or intellectual processes which it accompanies; sometimes, affection considered as an attribute of sensation

affectivity (a-fek-tiv'i-ti), n. [affective + -ity.]
The mental faculty concerned in the emotions, affections, and sentiments; the affective power of the mind.

The frequency of delusions in their multiform characters of degenerative characteristics, of the loss of affectivity, of heredity, more particularly in the children of inebriate, imbecile, idiotic, or epileptic parents, and above all, the peculiar character of inspiration, show that genius is a degenerative psychosis of the epileptoid group.

C. Lombroso (trans.), Man of Genius, p. 359.

affectomotor (a-fek'tō-mō'tor), a. In psychol., combining emotional disturbance with muscular activity: for example, the joyousness and unusual activity of the phase of exaltation in circular insanity constitute an affectomotor

affiliate (a-fil'i-āt), a. and n. I. a. Occupying the position of or recognized as an adopted son; affiliated. Browning, Ring and Book, x. 392.

II. n. An affiliated person or institution, etc. Tourgée, Fool's Errand, p. 126. N.E.D. affinity, n. 9. In projective geom., a perspective of which the center is at an infinite distance. An affiliated person or institution Möbius.—Affinity constants, in phys. chem., numerical constants by means of which the relative strength of acids or of bases can be expressed, or with which the partition

of a base between two acids or of an acid between two bases can be computed.—Clang affinity or relationably. See *clang.—Predisposing affinity in early chem., a term employed to signify the cause of a chemical change produced by a substance having an affinity or attraction, not for a second substance itself, but for something producible as a result of the change. Thus, using the language of the time, it was said that soda, by its affinity for phosphoric acid, enables phosphorus to decompose carbonic acid (which without the soda it would not do and form phosphoric acid. This idea has long do) and form phosphoric acid. This idea has long

been discarded.

Affirmance day general, in the English Court of Exchequer, a day appointed by the judges of the common pleas and barons of the exchequer, to be held a few days after the beginning of every term, for the general affirmance or reversal of judgments. Bouvier, Law Dict.

Affirmative pregnant. See *pregnant.

affix, n. 4. In math., the complex number x+

iy is denoted by a single letter, z; the point P, (x, y), is then called the affix of the value z; the number z is also spoken of as the affix of

affixment (a-fiks'ment), n. [affix+-ment.] Same as attachment.

amat, pp. A simplified spelling of affixed.

afflictionless (a-flik'shon-les), a. [affliction + -less.] Free from affliction or trouble. T. Hardy,
Far from the Madding Crowd. N. E. D.

affrettando (ä-fret-tän'dō), a. [It., 'hurrying,'
ppr. of affrettare, hurry.] In music, hastening
the pace: virtually the same as accelerando or stringendo.

affrettato (ä-fret-tä'tō), a. [It., 'hurried.']

Same as $\star affrettando$.

affrettoso (ä-fret-tō'sō), a. [It., 'with hurry.']

Same as *affrettando.

affricate (af ri-kāt), n. [= G. affrikata, < NL.

*affricata, < L. ad, to, + fricare, rub: see fricative.] In phonology, an intimate combination of a stop with a spirant or fricative of the same position, as German pf (originally p) in pfennig, pfeffer, etc., or German z or tz (originally t) in

pfeffer, etc., or detailed zinn, tin, katze, eat, etc. affricate (af'ri-kāt), v.t.; pret. and pp. affricated, in phonology, ppr. affricating. [affricate, a.] In phonology, to utter as an affricate. Scripture, Exper. Phonetics, p. 307.

affricative (a-frik'a-tiv), n. Same as affricate. Sayce, Introd. Sci. Lang., I. 270.

affrightfully (a-frit'ful-i), adv. [affrightful+-ly.] In a manner to affrighten, terrify, or [affrightful alarm; terrifyingly: as, to dream affrightfully. [Rare.]

affrunt, v. t. and n. A simplified spelling of affront

afikomen (af-i-kō'men), n. [Heb., prob. < Gr. ἐπίκωμον, understood as 'an after-meal dessert or pastime, neuter of $\dot{\epsilon}\pi i\kappa\omega\mu\sigma\varsigma$, of or for a festival, $\langle \dot{\epsilon}\pi i, \text{ for, } + \kappa\bar{\omega}\mu\sigma\varsigma$, a festival: see Comus. Others refer it to Gr. ἐπικώμιον, a festal song.] A piece broken off from the middle one of the three thin cakes of unleavened bread, called respectively 'Cohen,' 'Levi,' and 'Israel' (thus representing the whole Jewish nation), used by the Jews at the seder service on Passover eve. by the Jews at the seder service on Passover eve. It is broken off at the beginning of the service, and hidden by the head of the family, who presides at the seder table, until the conclusion of the meal. After the two whole cakes and the unhidden part of the broken cake have been partaken of, with all the proper ceremonies, the aftkomen is eaten. See **seder*.

a flori (ä fi-ō'ri). [It.] With flowers: said of after-cooler (af'ter-kö'ler), n. a style of pottery decoration which consists of which air or a gas is cooled a intertwined flowers and birds, characteristic of certain Italian majolica.

of certain Italian majolica.

aflicker (a-flik'èr), adv. [a³ + flicker.] In a flickering state or condition; flickering. Browning, Aristoph. Apol., p. 225.

aflower (a-flou'èr), adv. [a³ + flower.] In flower; a-bloom; flowering. Swinburne, Erechtheus, l. 1147. N. E. D.

aflush¹ (a-flush'), adv. [a³ + flush¹.] In a flushed or blushing state; aglow; ablush.

aflush² (a-flush'), adv. [a³ + flush².] On a level: in the same plane: as aflush with the

level; in the same plane: as, aftush with the sea. Swinburne, Studies in Song, p. 169. N.E.D. aftutter (a-flut'er), adv. [a³ + flutter.] In a or commotion; agitated; fluttering. Browning, Men and Women, ii. 147. a foglie (ä föl'ye). [It.] With leaves: said of

yle of decorative treatment in which leaves of trees form the principal motive, seen frequently on the majolica of Genoa, Venice, and other Italian pottery-centers.—A foglie da doz-zina. [It., with leaves of the dozen, that is, 'in ordi-nary or common style.'] Said of a coarse style of decora-tion found on certain inferior majolica wares (particularly those of Venice), consisting of painted follage.

A-frame (a'fram), n. The A-shaped support for the cylinder-beam and cross-head guides

of a vertical engine; the housing.

African breadfruit. See *breadfruit.— African Coast

fever, African fever. See *fever1. - African green.

Africanistics (af'ri-kan-is'tiks), n. That department of philology concerned with the study of the languages of Africa.

Africanoid (af'ri-kan-oid), a. [African + -oid.]
In anthrop., resembling African types of man. W. Z. Ripley, Races of Europe, p. 397.

Afro-American (af'rō-a-mer'i-kan), a. and n. [L. Afer (pl. Afri), an African, + E. American.] I. a. Of, pertaining to, or composed of persons of African descent born in America (specifically in the United States): as, an Afro-American church: Afro-American citizens. American church; Afro-American citizens.

II. n. A native of America (specifically of

the United States) who is of African descent. Afro-European (af'rō-ū-rō-pē'an), a. [L. Afer (pl. Afri), an African, + E. European.] African and European; European with African relations.

Afrogæa (af-rō-jō'ā), n. [NL., < L. Afer (Afr-), African, + Gr. yaia, earth.] In zoögeog., a (proposed) division or realm comprising the

(proposed) division or realm comprising the part of Africa that lies south of the equator. Correlated with Arctogæa. See Afrogæan. Afrogæic (af-rō-jō'ik), a. Same as Afrogæan. afrown (a-froun'), adv. [a³ + frown.] In a frown; frowning: as, "with brows afrown," Joaquin Miller. N. E. D. airunt, prep. phr. as adv. and prep. A simplified spelling of afront.

a frutti (ä fröt'ti). [It.] With fruits: said of a characteristic style of majolica decoration consisting of foliage and fruits.

a characteristic style of majolica decoration consisting of foliage and fruits.

aft1, a. and adv.— To haul aft a head-sheet (naut.), to pull on the rope secured to the clue of a staysall, jib, or flying jib, so as to flatten the sail in a fore-and-aft direction.— To haul aft the main-sheet (naut.), to pull on the tackle or purchase secured to the after part of the main-boom, so as to bring that spar more fore-and-aft, or in line with the keel.— Fore-and-aft rig. See fore-and-aft sails, under fore-and-aft.— To have the starboard sheets aft, an expression, sometimes employed on a fore-and-aft vessel to signify that she is on the port tack, and vice versa. vice versa.

having the form of: said of pseudomorphs, which retain only the form of the original mineral: as, malachite pseudomorph after cuprite; cassiterite pseudomorph after feldafter, prep. spar. See pseudomorph.—After one's own heart, that comes up to one's ideas or liking; entirely worthy of one's admiration and approval: as, he is a man after my come heart.

after-burning (af'ter-ber'ning), n. In gasengines, combustion or burning of the gases after the explosion has taken place which should have made all the gas unite at once with the oxygen present.

after-chrome (af'ter-krom), v. t.; pret. and pp. after-chromed, ppr. after-chroming. To treat (textiles, after they are dyed or printed) with a solution of some chromium compound, in order to fix, or render more fast, the colors already on the cloth. Sometimes the chromium compound acts as a mordanting principle and brings about the deposition of a chromium mordant which combines with the dyestuff; in other cases the potassium bichromate commonly used acts as an oxidizing agent.

after-color (af'ter-kul'or), n. A colored afterimage. See after-image.

A chamber in which air or a gas is cooled after it has been compressed. See compressor. compressed. See compressor.
after-cure (af'ter-kūr), n. A course of treat-

ment pursued after convalescence is estab-lished in order to insure the permanency of the cure.

after-darken (af'ter-där'kn), v. t. In textile-coloring, to deepen (a color) by subsequent dyeing or by oxidation with a chemical solu-

after-dinner (af'ter-din'er), n. and a. [after + dinner.] I.t n. The portion of the day which follows dinner or the dinner-hour.

II. a. Following dinner; postpraudial: as, after-dinner coffee; an after-dinner nap; an

after-dinner anecdote or speech.

aftergrowth, n. 2. In forestry, young trees which spring up as the result of reproductioncuttings.

after-heat (af'ter-het), n. The autumnal or after-summer warm weather which usually prevails in the northern United States during the period known as 'Indian summer.' Monthly

Weather Rev., Jan., 1902.

after-image, n. 2. In psychol., any phase of sensation which persists after the withdrawal of the exciting stimulus: as, a visual afterimage; an auditory after-image; an after-image of pressure.

that originally caused it is withdrawn.

after-leech (af'ter-leeh), n. The roping on the
after edge of a fore-and-aft sail. The roping on the forward edge is called by American seamen the luff and by English seamen the forward leech. See leech³.

after-mast (af'ter-mast), n. The mast nearest after-mast (af'ter-mast), n. The mast nearest to the stern of the ship. On a one- or two-masted vessel it is the mainmast; on a three-masted vessel, the mizzenmast; on a four-masted vessel, the jigger-mast; on a five-masted vessel, the spanker-mast; on a six-masted vessel, the driver-mast; and on a seven-masted vessel the pusher-mast. The last three names have been recently coined by the captains of many-masted vessels as a convenience when giving orders concerning the rigging and sails belonging to the masts in question.

after-milk (af'ter-milk), n. Strippings.

afternoony (af-ter-non'i), n. Like a (summer) afternoon; languid; enervating; inclining to a siesta, as if in the heat of the day.

There is something idle and afternoony about the air which whittles away one's resolution. Huxley, Life, IL 96.

after-nose (af'ter-noz), n. In entom., a triangular piece below the antennæ and above the nasus. Stand. Dict.

after-sensation (af'ter-sen-sā'shon), n. In Agapetidæ (ag-a-pet'i-dē), n.pl. [NL., < Agapetode.: (a) An after-image. (b) A secondary or consequent sensation: as, the aftering the forms known in the United States as sensation of pain which follows the sensation meadow-browns and their allies. Prominent sensation of pain which follows the sensation of pressure when the skin is lightly tapped with a needle.

after-shock (af'ter-shok), n. A shock following a primary shock; a succeeding shock.

The periodicity of the aftershocks of the great Indian earthquake of June 12, 1897, is treated by Mr. R. D. Oldham in vol. xxxv. of the Memoirs of the Geological Survey of India.

Nature, April 14, 1904, p. 571.

after-sound (af'ter-sound), n. A subjective sensation of sound which remains after the sound itself has ceased.

after-stain (åf'tèr-stain), n. A stain or dye employed after another stain, for the purpose of still further differentiating details of cell or tissue structure

after-stain (af'ter-stan), v. t. [after + stain.]
To treat with an after-stain.

after-strain (at'ter-stran), n. In elasticity, a strain which develops gradually after the application of the stress to which it is due and which persists after the stress has ceased. Also called elastic fatigue.

after-stretch (af 'ter-streeh), n. In wool-manuf.,

the elongation of the roving on the spinning-mule after the delivery-rolls have stopped. after-taste (af'ter-tast), n. A gustatory sensa-tion which persists after the stimulus that

originally excited it has ceased to act.

after-vision (af'ter-vizh'on), n. An impression of an object that remains in the retina after the object itself is removed from sight.

after-world (af'ter-werld), n. The people of
succeeding generations; future ages.

The language . . . in which Shakespeare and Milton have garnered for the after-world the rich treasures of their mind.

Trench, Eng. Past and Present, ii.

after-wort (af'ter-wert), n. In brewing, the

second run of wort.

afu (ä-fö'), a. and n. [Perhaps from the Polynesian tapu, tabu: see taboo.] Same as taboo.

[Torres Strait.] Geog. Jour. (R. G. S.), XVI.
420.

420.

afunction (a-fungk'shon), n. [a-18 + function.] In puthol., loss of function or functionating power. Alien. and Neurol., Aug., 1904.

afyllous, a. A simplified spelling of aphyllous.

Afzelia (af-zē'li-ā), n. [NL. (Gmelin, 1791), named in honor of Adam Afzelius, a Swedish naturalist.] A genus of scrophulariaceous plants improperly called Seymeria by many authors. See Seymeria.

A. G. An abbreviation of Attorney-General.

agada² (ä'gä-dä), n. [Abyssinian¹] An Egyptian or Abyssinian pipe sounded by means of a reed mouthpiece somewhat like that of a clarinet.

agalactous, a. 2. Not nursed, as a hand-fed infant.—3. Serving to check the secretion of milk; lactifugal.

milk; lactifugal.

agalenoid (ag-a-lē'noid), a. [NL., Agalena + -oid.] Of, belonging to, or resembling the spiders of the family Agalenidæ.

agalite (ag'a-līt), n. [Appar. $\langle Gr. \dot{a}\gamma \eta$, wonder, + $\lambda i\theta o_{\zeta}$, stone.] A fibrous variety of talc, pseudomorphous in origin, from St. Lawrence County, New York: used in the manufacture of paper. Sometimes written agalith. of paper. Sometimes written agalith.

after-impression (af'ter-im-presh'on), n. A agalith (ag'a-lith), n. Same as *agalite. sensation which persists after the stimulus agamobium (ag-a-mo'bi-um), n.; pl. agamothat originally caused it is withdrawn.

after-leech (af'ter-leech), n. The roping on the after edge of a fore-and-aft sail. The roping hydroid jellyfish, as contrasted with the sexual generation or gamobium.

gamogenetical (ag'a-mō-jē-net'i-kal), a. Same as agamogenetic.

agamospore (ag'a-mō-spōr), n. [Gr. $\dot{a}\gamma a\mu o\varsigma$, without marriage, $+\sigma \pi o\rho \dot{a}$, seed (spore).] A spore produced asexually.

Agaon (a-gā'on), n. [NL. (Dalman, 1818), said to be ζ Gr. ἀγάων, ppr. of ἀγάειν, var. of ἀγασθαι, adore.] A remarkable genus of hymenopterous insects of the superfamily Chalci-doidea, giving name to the family Agaonidæ. It contains the single species A. paradoxum, which lives in figs in Sierra Leone.

which lives in figs in Sierra Leone.

Agaonidæ (ag-ā-on'i-dō), n. pl. [NL., < Agaon + -idæ.] An extraordinary family of chalcidoid hymenopterous insects. It comprises species of small size, distributed in 2 subfamilles and 12 genera, all living in figs and accomplishing the fertilization of the flowers of this fruit. Other genera containing true parasites have been hitherto placed in this family, but are now separated into other distinctly parasitic groups. See *Blastophaga.

Agapatidæs (ag.-apatidæ) n. pl. [NI. (Aga-

American genera are Cercyonis, Erebia, Cæno-

American genera are cercyonis, Ereou, Canonympha, and Eneis.

agar¹ (ä'gär), n. [Hind. agar, < Skt. aguru: see agallochum.] The aloes-wood or calambac, Aquilaria Agallocha. In India it is used for making jewel-cases, rosaries, and ornaments of various kinds. The chips are sold in bazaars and are burned in Hindu temples. See agallochum and saglewood. Also aggur.

temples. See agallochum and eaglewood. Also aggur.

agar² (ä'gär), n. Same as agar-agar.—Gincose
agar. See *agar-agar, 2.—Hydrocele agar, a culture
medium suggested for the growth of the gonococcus, in
which hydrocele fluid is used as the nutrient medium,
the agar being added to solidify the medium.—Liturus
lactose agar, a culture medium used in bacteriological
work. It is ordinary agar containing † per cent. of lactose,
with enough litmus tincture added to give the solution a
light-blue color.—Peptone agar, a bacteriological culture medium; it contains a certain amount of peptone.
Also called nutrient agar.—Siant agar, agar that has
been solidified so as to present a slanting surface: used
in bacteriological work. Science, March 14, 1902, p. 406.
agar-agar, n. 2. A gelatinous product from
certain sea weeds often combined with various
nutrient substances to form a solid medium

nutrient substances to form a solid medium for the artificial cultivation of bacteria and

other organisms.

agaric. I. n.—Deadly agaric, Amania phalloides, a very poisonous fungus.—Ivory agaric, the mushroom, Hygrophorus eburneus.—Maned agaric. Same as *horsetail-agaric.—Royal agaric, a large and elegant edible mushroom, Amania casarea. It has a bright crange-colored pileus, an annulus, and a large, thick, leathery volva. It is sometimes confused with the poisonous fly-agaric, Amania musearia.—Sugar-cane agaric, Schizophyllum commune, which is reported to be sometimes parasitic on sugar-cane.

II a.—Araric acid a compound Ca-Hacle + Hol.

II. a.—Agaric acid, a compound, $C_{10}H_{30}O_5 + H_{20}$, obtained from agaric in the form of a white powder. Also called agaricia and agaricinic acid.—Agaric resin, a red amorphous solid obtained from the larch-fungus. It is alightly bitter, and melts at 90° C.

Agaricacese (a-gar-i-kā'sē-ē), n. pl. [Agaricus + -acese.] The name now adopted for the family Agaricini.

ramily Agaricani.

agaricaceous (a-gar-i-kā'shius), a. [Agaricaceæ.] Having the characteristics of the family Agaricaceæ, the agarics.

Agaricales (a-gar-i-kā'lēz), n. pl. [NL., < Agaricus + -ales.] A large order of fungi including the greater part of the Hymenomucetes agaths form.

mycetes, as the families Thelephoracea Clavariaceæ, Hyd-naceæ, Polyporaceæ, and Agaricaceæ.

agaricic (ag-a-ris'-ik), a. [agaric + -ic.] Same as agaric

agaricinic (a-gar-isin'ik),a. [agaricin + -ic.] Related to agaricin. — Agari-Agari-Same as cinic acid. *agaric acid.

Agarum (ag'a-rum), n [NL. (Postels and Ru-precht, 1840), < Ma-Agarum lay āgar-āgar: see agar-agar.] A ge-nus of brown algæ



Agarum Turneri; expanded blade of a frond.

(Phæophyceæ) inhabiting the Arctic and colder waters of the Atlantic and Pacific oceans. The frond consists of a stipe attached by a branching holdfast, and a broadly expanded blade which is perforated with numerous holes. Popularly called sea-colander.

agasp (a-gàsp'), adv. [a³ + gasp.] In a gasping state or condition; panting; eager. Coleridge, Own Times, II. 395. N. E. D.

Agassizocrinidæ (ag-a-siz-ō-krin'i-dē), n. pl. [Agassizocrinidæ + -idæ.] A family of fistulate Crinoidea characterized by the elongate dorsal cup composed of thick solid plates, and by the absence of a column. It is believed that dorsal cup composed of thick solid plates, and by the absence of a column. It is believed that in early stages these forms were attached by a stem, but that they subsequently became free-swimning. They have been found only in the Kaskaskia limestone of the Lower Carboniferous formation in the United States.

Agassizocrinus (ag-a-siz-ō-kri'nus), n. [NL., Agassiz + Gr. κρίνον, lily.] The typical genus of the family Agassizocrinidæ.

agast, p. or a. A simplified spelling of aghast.

agate², n. 6. Naut., the jewel cup in the center of the compass-card, which rests upon the provide significant the center of the compass-card, which rests upon the provide significant the center of the compass-card. upright pivot in the center of the compassbowl.—Rye-agate, a variety of agate having the layers in concentric circles.—Iceland agate, a fine variety of obsidian (volcanic glass) found in Iceland.

obsidian (volcanic glass) found in Iceland.

agate-ware (ag'āt-wār), n. 1. Pottery mottled and veined in imitation of agate.—2. A variety of enameled iron or steel household ware.

Agathaumas (ag-a-thā'mas), n. [NL., irreg. (1) Gr. ἀγαν, much, + θανμασία, wonder.] A genus of dinosaurian reptiles from the Laramie beds of the Rocky Mountains.

agathin (ag'a-thin), n. [Gr. $aya\theta bc$, good, + $-in^2$.] A trade-name for the a-methylphenylhydrazone of salicylic aldehyde, $C_6H_5CH_3NN$: CHC_6H_4OH . It crystallizes in white needles which melt at 71° C. It has been used as a remedy for rheumettem

agathodæmon, n. 2. In astrol., the eleventh house of the heavens.

nouse of the neavens. **agathology** (ag-a-thol' \tilde{o} -ji), n. [Gr. $\dot{a}\gamma a\theta \dot{o}\varsigma$, good, $+-\lambda o\gamma \dot{a}$, $\dot{\lambda} \dot{e}\gamma \epsilon \nu$, speak.] The ethical doctrine of the summum bonum, or that which is good apart from any ulterior reason.

agatoid (ag'ā-toid), a. Resembling an agate

agatoid (ag'ā-toid), a. Resembling an agate in structure or appearance.

Agau (ā'gou), n. See *Abyssinian languages(b).

agave, n. 2. [l. c.] A plant of this genus.

—Soap agave, a name applied to several species of Agave, the roots or other portions of which, called amole by the Mexicans, are used in place of soap for washing.

The principal soap-producing species is Agave Leckeguilla of northern Mexico. See amole.

agavose (a-gā'vōz), n. [Agave+-ose.] A sugar, Challed on other particles of Agare.

12H₂₂O₁₁, obtained from the stalks of Agave Americana.

. G. C. In astron., an abbreviation of Argen-

A. G. O. In astron., an abbreviation of Argentine General Catalogue (of stars).

Age class. See *class.— Age coating, the carbonaceous layer or deposit which gradually accumulates upon the interior surface of incandescent-lamp bulbs in consequence of the disintegration of the filament.— Age of the tide. Same as retard of the tide (which see, under retard).— Copper age, in prehistoric archeol., the period during which copper was used for the manufacture of implements. In some parts of the world the stone age was followed by a copper age, while in other regions the stone age was followed by the bronze age.— Flint age. Same as stone age. See archeological ages, under age.— Heroic age, the age of heroes and demigods.— Lacustrine age, in archeol., the period of lake-dwellings; especially, the period of lake-dwellings in central Europe.— Topographic old age, the stage which is produced by long-continued subjection of a region to the processes of erosion in its present relation to base-level.

age¹, v. t. 2. To expose (mordanted or dyed

age¹, v. t. 2. To expose (mordanted or dyed cloth) to the air in order to fix the mordant or dye in insoluble form.

age² (ä'hā), n. [Mex. (†). Cf. *axin.] The fat obtained from the Coccus axin of Mexico. Also

called axin.

called axin.

aged, p.a. 4. In geol., approaching peneplanation: said of the topography of a greatly denuded region.—5. Of a horse, arrived at the age when the 'pit' or 'mark' on the front teeth has been obliterated by the gradual wearing away of the crown. This change usually occurs in the eighth or ninth year; but under racing rules a 'running' horse is adistinct from a trotting horse is said to be aged when he is more than seven years old.

202-distribution (āi'dis-tri-bū'shon), n. In

age-distribution (āj'dis-tri-bū'shon), n. In social statistics, the number of occurrences, ronditions, or relations (as births, marriages, or deaths) in a given population in each year or in each five- or ten-year period of life: as, 50 deaths annually in each 1,000 children under five years; 10 deaths annually in each 1,000 males 25 to 30 years of age.

age-fraternity (āj'frā-ter'ni-ti), n. A fraternity of individuals of the same or similar age. This is a form of social organization found frequently among primitive tribes, boys, youths, young men, men

in their prime, and old men being organized each in a society by themselves. Societies of women of similar character are rarer than those of men.

On superficial examination various tribes appear to be On superficial examination various tribes appear to be organized according to identical principles, but fuller knowledge generally reveals differences among the similarities. From this it was concluded that such terms as gens, band, age-fraternity and dance-society have no stable or exact meaning and hence little descriptive value, detailed information being the great desideratum.

Science, May 31, 1901, p. 864.

Agelacrinites (āj'e-lak-ri-nī'tēz), n. [NL., $\langle Gr. \dot{a}\gamma \epsilon \lambda \eta, \text{ herd}, + \kappa \rho i \nu o \nu, \text{ lily}, + -i tes.]$ A name introduced by Vanuxem in 1842 for a

Devonian cvstidian found in the Hamilton rocks of New York, but also represented by species in both Silurian Carboniferous rocks: typical of the family Agelacrinitidae Also improperly



written Agela- A group of individuals attached to a shell.

Agelacrinitide (aj'e-lak-ri-nit'i-dē), n. pl. [NL., < Agelacrinites + -idæ.] A family of extinct cystid echinoderms, discoid in form, sometimes with a short stem, but usually attached to other objects by the entire abactinal surface. In typical species the ambulacral arms are long and curved and the spaces between are filled with irregular and often scaly plates.

Agelacrinus (aj-e-lak'ri-nus), n. See *Agelac-

agelong (āj'long), a. [age + long.] Long as an age; that lasts or has lasted for an age; unending: as, agelong strife.

unending: as, agelong strife.

agency, n.—Commercial agency, a see mercantile agency, a. Mercantile agency, an institution or company formed for the purpose of obtaining, by careful inquiry and investigation, and supplying in confidence to subscribers for their own special use, accurate information regarding the character, personal responsibility, and commercial and financial standing of individuals, firms, and corporations engaged in mercantile, financial, or industrial enterprises, either throughout the country or, in the case of the larger associations, throughout the world. Full revised lists and reports giving the 'commercial rating' of each of these individuals, firms, and corporations are issued quarterly in book form, but special reports with regard to particular cases are made to subscribers on request. Also sometimes called commercial agency and credit bureau.

agency and cream oureau.

agent, n.—Fixing agent, in textile-coloring, any substance used to fix a mordant or render fast and permanent colors which would otherwise be more or less fugitive.—Insurance agent. See *insurance.—Reducing agent, in chem., a substance capable of removing the electronegative constituent from a compound, setting free the electropositive constituent, as a metal from one of its oxids.

agentialis (ā-jen-ti-ā'lis), a. [NL.: see agen-tial.] In gram., noting the case which expresses the subject of a sentence and some-

times the owner of an object. Also called subjective. Barnum, Innuit Lang., p. 12. agentive (ā-jen'tiv), a. [agent + -ive.] In gram., noting the case which expresses the subject of the transitive verb in languages in which ject of the transitive vero in languages in which its form differs from that expressing the subject of the intransitive verb. This case is found in many American languages, for instance, in Eskimo. Also called subjective. Amer. Anthropologist, Jan.—March, 1903, p. 26.

 $ager^2$ (a'jer), n. [age, v. t. + -er¹.] One who or that which ages; specifically, a chamber in which mordanted or dyed cloth is submitted to the process of aging. A steam-ager is such a chamber to which both air and steam are admitted.

agger, n.— Agger nasi, a projection at the anterior ex-tremity of the middle turbinate bone, being a vestige of the nasal turbinate bone in certain of the lower animals.

agglomerant (a-glom'e-rant), n. [agglomera-(ate) + -ant.] That which causes agglomera-tion; a material which may be added to a mix-ture in order to cause the particles of the ture in order to cause the particles of the latter, when in a fine state of division or in small lumps, to adhere together and form larger lumps or agglomerations. This is necessary in some systems of treating ores, and in making artificial briquets from pulverized fuel. Lime mixed with water to form a paste is a suitable agglomerant in the first case, and tar or pitch in the second.

glutination, in any sense. V. 361. Jour. Exper. Med..

agglutinable (a-glö'ti-na-bi), a. Capable of agglutination.—Agglutinable substance, a sub-stance present in bacteria and red blood-corpuscles to the union with which, on the part of the agglutinius, the specific agglutination is due.

agglutinant, n. 2. In bacteriol., same as *agglutinating substance.

agglutinate, v. t. 2. In bacteriol., to cause the coalescence or clumping of (bacteria or red blood-corpuscles).

If the blood agglutinates a paratyphold bacillus in high dilution, and fails to agglutinate the typhoid bacillus or agglutinates it only in very low dilutions.

Med. Record, Feb. 14, 1903, p. 267.

agglutinating, p. a.—Agglutinating substance, in bacteriol., the substance which causes agglutination. Also called *agglutination, m. 3. In Wundt's psychology, the simplest type of apperceptive connection of ideas: a connection in which one is still also be a connection of ideas. clearly conscious of the constituent ideas. while the total idea aroused by their conjunction is nevertheless unitary: for example, watch-tower, steamboat.—4. In bacteriol., the clumping or coalescence of red blood-corpuscles or bacteria brought about by the action of special agglutinating substances (agglutinins).

Careful observation of this phenomenon has shown that, in many cases, a state of coalescence of the corpuscies to which the name 'agglutination' is applied, precedes that of solution; and, further, that while these changes are often associated, yet one may occur in the absence of the other.

Science, July 3, 1903, p. 4.

absence of the other. Science, July 3, 1903, p. 4.

Agglutination test, a test based upon the principle that specific agglutinins appear in the blood-serum of infected animals or patients which will cause the agglutination of the specific bacteria concerned in the infection. In this manner it is sometimes possible not only to identify bacteria, but also to determine whether or not infection with a given organism exists. Diagnosis by such means is spoken of as serum diagnosis, and constitutes a most important method of recognizing certain infections. In typhold fever especially the agglutination test, or Widal reaction, as it is also termed, is extensively utilized in the diagnosis of the disease. Generally speaking, the examination is carried out by mixing some bacilli of the kind under investigation with some of the diluted blood-serum, when a drop is observed under the microscope, in order to ascertain whether or not the bacillit, which at first are evenly scattered through the field, will gather in clumps, and, if previously motile, will loss their motility. See serum *diagnosis.

agglutinative, a.—Agglutinative reaction. Same as *agglutination, 4.

agglutination, 4.—Agglutinative reaction. Same as *agglutination, 4.
agglutinator (a-glö'ti-nā-tor), n. He who or that which agglutinates; specifically, same as *agglutinin, in contradistinction to *agglutina-

ble substance. Thus, if ricin, a strong agglutinator, is permitted to act upon red corpuscles for periods under thirty minutes, then upon the addition of venom lysis ensues in about the average time and proceeds normally.

Jour. Exper. Med., Mar. 17, 1902, p. 289.

agglutinin (a-glö'ti-nin), n. [agglutin(ate) + -in².] An adaptation-product produced by immunization with the corresponding cells (red blood-corpuscies or bacteria), which causes the clumping or coalescence of the cells used the clumping or coalescence of the cells used in immunization. The agglutinins are receptors of the second order (Ehrlich), being composed of a special zymophoric group and a haptophoric group, which latter effects the union with the cell. The baciliary agglutinins in their action upon motile bacteris cause arrest of motility. See also *anglutination test.—Flagellar agglutinin, an agglutinin resulting on immunization with a motile bacilius and supposedly referable to the specific action of the flagellar substance. As the body of the organism gives rise to special somatic agglutinina, the two will coëxist in the serum of an animal immunized with motile bacilli, while the latter only will be found if a nonmotile organism has been used. Jour. of Med. Research, Oct., 1904, p. 318.—Somatic agglutinin, an agglutinin resulting on immunization, which in contradistinction to the flagellar type is referable to the special immunizing effect of the bodies of the bacilli, and is thus obtained not only with motile but also with non-motile organisms. Jour. of Med. Research, Oct., 1904, p. 314.

agglutinogen (a-glö'ti-nō-jen), n. A substance present in bacteria, immunization with which gives rise to the production of agglutinins.

gives rise to the production of agglutinins. Jour. of Med. Research, Oct., 1904, p. 314. agglutinogenous (a-glö'ti-noj'e-nus), a. [Ir-

reg. $\langle agglutin(ation) + -genous, producing.]$ Producing agglutination or agglutinins.

Nicolle and Trenel find that agglutinative and agglutiogenous functions are subject to the greatest variations.

Jour. Roy. Micros. Soc., Feb., 1903, p. 78.

agglutinoid (a-glö'tin-oid), n. [agglutin(ate) + -oid.] An agglutinin which has lost its agglutinophoric group, but retains the haptophoric group for the cell. Lancet, April 4, 1903, p. 946. ## -oid.] An agglutinin which has lost its agglomerative, a. 2. In sociol., tending to combine small social groups into larger organizations.

-oid.] An agglutinin which has lost its agglutinophoric group, but retains the haptophoric group for the cell. Lancet, April 4, 1903, p. 946.

agglutinability (a-glö'ti-na-bil'i-ti), n. [ag-agglutinophore (a-glö'ti-nō-fōr), n. [agglutinophore (a-glö'ti-nō-fōr), n. [agglutinophore (a-glō'ti-nō-fōr), n. [agglutinophore (a-glō'ti-nō-for), n. [agglutinophore (a-glō'ti-nō-for),

lecular complex of the agglutinins to which their agglutinating property supposedly is due. agglutinophoric (a-glö'ti-nō-for'ik), a. Noting that molecular group of the agglutinins to

which the agglutinating properties are due. aggradation (ag-rā-dā'shon), n. [aggrade + The act or process of aggrading, or ation.] the state of being aggraded; in yeol., the act of aggrading, as in depositing detritus upon a valley floor, the slope of the depositing a valley floor, the slope of the depositing stream being maintained at an almost constant value.—Aggradation plain, a plain formed by the accumulation of clastic material in arid districts under accumulation of clastic material in arid districts under conditions unfavorable to distant transportation and where overloading of streams is habitual. The alluvial fan and the flood-plain are initial stages.

ggradational (ag-rā-dā'shon-al), a. 1. Pertaining to or effected by means of aggradation.

—2. Effecting an upbuilding of sediments: contrasted with degradational agencies or those which remove material.

aggrade (a-grād'), v. t. [L. ad, to, + gradus, step. Cf. degrade.] In geol., to grade up; fili up: the opposite of degrade or wear away.



Diagrammatic cross-section of an aggraded valley.

A river aggrades its valley when, owing to an increase in the load of detritus or to a decrease of carrying power of its current (as a result of diminution in volume or of tilting of the land), some of its load has to be laid down along its current.

aggraded (a-grā'ded), p. a. In geol., more or less filled with detritus by a stream: said of a

valley, basin, or bay.

aggregate, n. 4. In logic, a whole of aggregatts which is universally predicable of every one of its aggregants and is not predicable of any individual of which none of its aggregants any individual of which none of its aggregants is predicable. So, likewise, a proposition which would be true under any circumstances whatsoever under which any one of a collection of propositions would be true, but which would under no circumstances be true when one of the propositions of that collection were true, would be the aggregate of those propositions as its aggregants.

—Social aggregate, any group or class of animate creatures, human beings or animals, dwelling together or working together and leading a social life.—Theory of aggregates, in demography, the theory of the grouping of population about centers of density; in sociol., the theory of the combination of hordes into tribes, tribes into nations, and nations into federal empires; in biol., the theory that units of structure were once independent organisms. organism

aggregation, n. 6. In sociol., the phenomenon of the physical concentration of population, of animals, and of plants. Giddings. lation, of animals, and of plants. Giddings. Inductive Sociol., p. 40.—Aggregation theory, the theory that the passage of matter from an imperceptible to a perceptible condition is necessarily a process of aggregation. It was held by John Fiske.—Biological aggregation, a term used by J. F. Ward to express his belief that organisms which are morphologically separable into structural units, such as the Metazoa and metamerized animals, have arisen through the aggregation of units which were at one time independent.—Genetic aggregation, in scoiol., a group of kinsmen who have lived together in one locality from their birth; hence, also, a population perpetuated chiefly by its birth-rate rather than by immigration. Giddings.—Law of aggregation, the universal tendency of particles and masses of matter to concentrate. See the extract.

The great law of progress in the universe therefore is the law of aggregation, and evolution is due to the resistance which this law meets with from the opposite law of dispersion. L. F. Ward, Dynamic Sociol., I. 249.

of dispersion. L. F. Ward, Dynamic Sociol., I. 249.
Organic aggregation. Same as biological *aggregation. The process by which the inorganic universe, as contrasted with living beings and with society, has come to be what it is. L. F. Ward.— Secondary aggregation, the process by which living beings, as contrasted with the inorganic universe and with society, have come to be what they are. L. F. Ward.— Tertiary aggregation, in sociol., the aggregation of individuals into social groups or populations, a process which completes the sequence of integrations that constitutes one aspect of universal evolution. The aggregation of atoms in molecules and masses is called primary aggregation, that of molecules in living cells and organisms secondary aggregation. L. F. Ward.

aggregative, a. 3. In sociol.: (a) Tending

aggregative, a. 3. In sociol.: (a) Tending toward a center of density, as concentration of population. (b) Tending to combine small groups into large organizations, as hordes into tribes or small corporations into great corporations and 'trusts.

agiasterium, n. See *hagiasterium.
agil, a. A simplified spelling of agile.
aging, n. 4. In the preparation of logwood
for dyeing, the process of exposing the wood
(usually in the form of chips) to the air, in order that the hematoxylin it contains may be oxidized or developed into hematein, the actual coloring agent. Also known as curing or maturing.—5. In elect., the property, exhibited more or less by iron, of showing an increase of hysteresis loss when for a long time exposed to alternating magnetization, especially at a

higher temperature.
aging-machine (ā'jing-ma-shēn'), n. In calico-printing, a machine used in the process of aging or causing the mordant to decompose evenly on and in the fiber.

aging-room (a jing-rom), n. In calico-printing, a room or chamber in which cloth is aged. The cloth is hung and exposed for several days to a temperature of about 80 F. and to a relative humidity of about 82 per cent., for the purpose of fixing the mordant evenly on and in the fiber.

agitatrix (aj-i-tā'triks), n.; pl. agitatrixes (-ēz) or agitatrices (-tri-sēz). [L. agitatrix, fem. of agitator, agitator.] A female agitator.

[Kare.] Aglaonema (ag'lā-ō-nē'mā), n. [NL., \langle Gr. $a\gamma\lambda a\phi$, shining, $+\nu\eta\mu a$, thread.] Agenus containing about fifteen species of the family Aroidex, two or three species of which are sometimes offered by plant-dealers. They are indoor subjects, in the manner of Arum, and are native to Asia and Africa.

are native to Asia and Africa.

Aglaospora (ag-la-os'pō-rā), n. [NL. (De Notaris, 1845), ⟨ Gr. ἀγλαός, brilliant, + σπορά, spore.] A genus of pyrenomycetous fungi having membranous beaked perithecia embedded in a valsoid stroma. The spores are brown and several-septate. A. profusa is the type. It occurs in Europe and America, and is said to cause the death of young twigs of the locust, Robinia Pseudacacia.

Aglaspis (a-glas'pis), n.
[NL., ⟨ Gr. ἀγλαός, beautiful, + ἀσπίς, shield.] A genus of Cambrian arthropods described by Hall as a trilobite, but regarded by Clarke as a primitive mero-

Clarke as a primitive merostome of the order Synxiphosura. It has a short trilobed cephalothorax, 6 or 7 flat abdominal segments, and a long cauda spine or telson. It is the only representative of the family Agla-

aglint (a-glint'), adv. [a³ + glint.] In momentary glints or peeps; glintingly. aglitter (a-glit'er), adv. [a³ + glitter.] In a glitter; glitter; glitter;

Aglaspis Eatoni, Whiti.

glittering.

glittering.

Aglossa, n. pl. 3. A group of Mollusca having no radula and no head: distinguished from Glossophora. The group includes only the Pelecypoda. Same as Lipocephala.

aglossi, n. Plural of *aglossus.
aglossia (a-glos'i-ā), n. [NL., < Gr. ἀγλωσσία, tonguelessia (used in fig. sense 'ineloquence'), < ἀγλωσσος, tongueless, < ά- priv. + γλῶσσα, tongue.] Congenital defect marked by absence of the tongue.
aglossus (a-glos'us), n.; pl. aglossi (-ī). [NL., < Gr. ἀγλωσσος, tongueless: see *aglossia.] In teratol., a monster having no tongue.

teratol., a monster having no tongue.

Agnatha, n. pl. 2. A class of fishes, or fish-like vertebrates, characterized by the absence of jaws and shoulder-girdle. It contains the extinct ostracoderms and the existing lamprevs

agnathic (ag-nath'ik), a. Same as agnathous. agnathus (ag'na-thus), n.; pl. agnathi (-thi).
[NL.: see agnathous.] In teratol., a monster

Annual and the second and the secon

common to all mankind.

agnotozoic (ag-nō-tō-zō'ik), a. and n. [Gr. $a\gamma\nu\omega\tau c\varsigma$, unknown, $+\zeta\omega\dot{\eta}$, life.] I. a. Not known to contain fossils: applied to the early rocks and period of the earth in which definite evidence of organic life has not been found.

II. n. The rocks and period not yet known to contain evidences of life: contrasted with eozoic and paleozoic, and essentially equivalent, so far as the term has been applied, to the Harmian of Logan and the Algonizing of

the Huronian of Logan and the Algonkian of Walcott. Not in general use.

agoge (a-gō'jē), n. [Gr. ἀγωγή, a leading, course, mode, etc.] In anc. Greek music: (a)

Tempo or pace; rhythmical movement; (b)

Melodic motion upward or downward by successive scale-steps: same as ductus in medieval

music. The first use is the more proper.

agogic (a-goj'ik), a. In music, pertaining to
or emphasizing slight variations in rhythm for the sake of dynamic expression: as, agogic ac-

agogics (a-goj'iks), n. In musical theory, a term used by Hugo Riemann (from about 1884) for the general principle, in performance, that dynamic variations are, or should be, combined with slight variations in rhythmical regularity if the full expressiveness of a phrase is to be (which see, under tempo) belongs to the field of agogics. What is called tempo rubato

of agogics.

agoho (ä-gō'hō), n. [Bisaya.] A name applied in the Philippines to the Polynesian ironwood, Casuarina equisetifolia, a strand tree with very hard, heavy wood of a reddish-brown color, much used by the Pacific islanders for spears. See swamp-oak, 2 (b), and *ironwood, 2.

agoing (a-gō'ing), adv. [a³ + going.] In motion; in the act of going: used with set. agomphosis (a-gom-fō'sis), n. Same as agom-

agonal (ag'ō-nal), a. [NL. *agonalis, (Gr. ayw, a struggle: see agony.] Relating to or occurring during the agony or death-struggle. See the extract.

The lower part of the fleum was of small calibre, a condition which, if not due solely to agonal contraction, might at least favor the production of diverticula in the upper part.

Jour. Exper. Med., V. 344.

Agoniada bark. See *bark².

agoniadin (a-gō'ni-a-din), n. [agoniada + $-in^2$.] A glucoside, $C_{10}H_{14}O_{6}$, found in agoniada or agonia bark (Plumeria lancifolia), which is used in Brazil as a remedy for intermittent fevers. It is bitter, and crystallizes in needles which melt at 155° C.

member of the genus Agoniatites.

II. a. Containing or relating to Agoniatites.

— Agoniatite limestone, a limestone stratum characterized by an abundance of Agoniatites expansus, occurring in the Marcellus shales of New York.

Agoniatites (a-go^{*}ni-a-ti^{*}tēz), n. [NL., < Gr. a-priv. + NL. Goniatites.] A genus of nautiloid ammonoids or goniatites. They are of very primitive form, the septal autures having no angles except on the ventral edge about the siphuncle. Agoniatites is among the earliest forms of these cephalopods to appear. They are of Devonian age.

agonism (ag'ō-nizm), n. [Gr. ἀγωνισιός, ⟨άγωνιζειν, contend: see agonize.] 1. Struggle or contest for a prize, especially at the ancient Grecian games.—2. The prize itself. [Rare

Grecian games.—2. The prize itself. [Rare in both uses.]

agonistic, a. II. n. The act of combating or struggling; combat; struggle. G. S. Hall, Adolescence, II. 251.

agonizant, n. II. a. Being in the death-agony; moribund.

agonizedly (ag-ō-nī'zed-li), adv. As one in agony; in toues of agony or anguish. Thackeray, Paris Sketch Book, p. 166. N. E. D.

agonizing (ag'ō-nī-zing), p. a. [agonize + 4-ing².] 1. That causes or produces agony or anguish; characterized by extreme anguish or painful struggles: as, agonizing suspense; agonizing distress," Ruskin, Fors Clavigera, i. 8.—2. Indicative of or expressing agony or anguish: as, an agonizing cry.—3. In the last agony; in the throes of death. See the extract.

An extraordinary Restorative and Cordiall, recovering frequently with it agonizing persons.

Philos. Trans. Roy. Soc. (London), I. 249. N. E. D.

aghastness (a-gast'nes), n. The state of being agnosy (ag'nō-si), n. [Gr. ἀγνωσία, ignorance aghast or filled with amazement or horror: (cf. ἀγνωσία, unknowing, ignorant: as, an expression of aghastness in the eyes. [Rare.] N. E. D.

Agialid (aj-i-al'id), n. [NL. (Adanson, 1763), common to all mankind.

from an Egyptian name of the African species agihalid, used by Alpinus.] A genus of dictoraction of the family Zygophyllar cocks and period of the carth in which definite cocks and period of the carth in which definite fishes found of the coast of southern Chile.

Agonopsis (agonopsis), n. [NL., \langle Agonus + $\delta \psi v_i$, appearance.] A genus of sea-poachers of the family Agonidæ. They are small seafishes found off the coast of southern Chile.

Agonostoma (ag-ō-nos'tō-mä), n. See ★Ago-

Agonostominæ (ag'ō-nos-tō-mī'nō), n. pl. [NL., < Agonostomus + -inæ.] A subfamily of fresh-water mullets, typified by the genus Agonostomus

nostomus.

Agonostomus (ag-ō-nos'tō-mus), n. [NL., < Gr. ἀγωνος, without angle, + στόμα, mouth.] A genus of fresh-water mullets of the family Mugilidæ, found in the swift streams of the East and the West Indies. Also Agonostoma Agonyclitæ (ag-ō-nik'li-tē), n. pl. [NL., < MGr. ἀγονυκλίται, < Gr. ά- priv. + LGr. γονυκλίνειν (cf. γονυκλιτείν), bend the knee, < γόνν, knee, + κλίνειν, bend.] A sect who refused to kneel in prayer: condemned by a synod of Jerusalem A.D. 726.

goraphobe (ag'ō-ra-fōb), n. [A back-formation from agoraphobia.] One who is subject to agoraphobia.

Agosia (a-go'si-ä), n. [NL., coined name.] A genus of small minnows found in the brooks of the Rocky Mountain region from British

of the Rocky Mountain region from British Columbia to Arizona.

agradolce (ä'grädöl'che), n. [It., 'sour sweet'; agra, fem. of agro, < L. acer, sharp, sour; dolce, < L. dulcis, sweet.] A well-known Italian sauce used with venison, calf's head, etc. It contains sugar, chocolate, lemon-peel, currants, etc., and vinegar. It is poured over the cooked meat and served hot.

for harelip to keep the two surfaces of the wound in apposition.—5. An iron fastening used to hold in place the cork of a bottle containing champagne or other effervescing wine during the final fermentation.

Agrania (a-grā'ni-š), n. pl. [Gr. 'Αγράνια, also 'Αγριάνια, a festival in Argos (Hesychius); prob. equiv. to 'Αγριάνια, a festival of Dionysus, prob. ⟨ἀγριος, rustic, wild: see agriology.] A festival of Thebes in ancient Greece. It was celebrated in the night by women, a priest, and an attendant. It consisted in tearing in pieces a figure made out of or covered with ivy, and then, like the Thylades on Parnassus, running over the mountain to look for Dionysus.

agraph (ag'raf), n. [Gr. ἀγραφος, unwritten, ά- priv. + γράφειν, write.] An unwritten word; a word or saying preserved by oral tra-

dition.

agraphia, n.—Acoustic or auditory agraphia, inability to write from dictation.—Amnemonic agraphia, loss of ability to write onnected sentences.—Ataric agraphia, inability to write resulting from imperfect muscular coördination.—Literal agraphia, loss of ability to write the letters of the alphabet.—Musical agraphia, loss of ability to write from copy, while the power to write from dictation may remain.—Verbal agraphia, loss of ability to write words, although the individual letters may be formed perfectly.

Agrauleum (ag-râ-lē'um), n. [NL., < NGr. "Αγραυλείου, < Gr. "Αγραυλος (see def.).] In Gr. antiq., a modern name for a shrine of Agraulos or Aglauros, daughter of Cecrops, on the northern slope of the Acropolis at Athens. About 60 meters west of the Erechtheum a staircase leads down to it.

leads down to it.

leads down to it.

Agraulos (ä-grâ'los), n. [Gr. ἀγρανλος, living in the fields, ⟨άγρός, field, + αὐλή, court, hall.] A genus of Cambrian trilobites having a large cephalon, small eyes, 16 thoracic segments, and very small pygidium. Properly Agraulus.

Agr. B. An abbreviation of L. Agriculturæ Baccalaureus, Bachelor of Agriculture.

agreement, n.—Frankfort agreement, a set of rules governing craniometry adopted by the Anthropological Congress at Frankfort in 1882.

agrégé (ä-grā-zhā'), a. [F., pp. of agréger, ⟨ L. aggregare, collect, assemble: see aggregate, v.] Added; supernumerary: as, professor agrégé. agrestian (a-gres'ti-an), a. and n. I. a. Be-

agrestian (a-gres'ti-an), a. and n. I. a. Belonging to the country; rural; rustic: as, the

agrestian population.

II. n. A rustic; a countryman.

agricolite (a-grik'ō-līt), n. [From Georg Agricola, a Saxon mineralogist, 1490-1555.] A silicate of bismuth, having the same composition as eulytite, but believed to crystallize in the monoclinic system.

Agricultural botany. See *botany. — Agricultural science and other brauches of knowledge useful to agricultural science and other brauches of knowledge useful to agricultural science and other brauches of knowledge useful to agricultural science and other brauches of knowledge useful to agricultural specifically, in the United States, one of a class of such institutions organized and maintained under the provisions of the Morrill Act (see *act), usually accompanied by an agricultural experiment station. — Agricultural engineering. See rural *kengineering.— Agricultural engineering. See rural *kengineering. — Agricultural experiment station, an establishment for the investigation, by scientifically conducted experiments, of questions directly affecting agricultural practice, relating to varieties of plants and breeds of animals, etc. There are now about 800 such stations in 50 different countries. In the United States there is one or more in each State and Territory, mostly organized under the provisions of the Hatch Act (see *act), but partly supported by individual States. The results of investigations are diffused by means of an extensive free literature. Agriculturer (ag-ri-kul'tūr-ėr), n. One engaged in farming operations; a husbandman. *Colentary operations of the Hatch Act (see *act), but partly supported by individual States. The results of investigations are diffused by means of an extensive free literature. Agriculturer (ag-ri-kul'tūr-èr), n. One engaged in farming operations; a husbandman. *Colentary operations of the Hatch Act (see *act), but partly supported by individual States. The results of investigations are diffused by means of an extensive free literature.

*Agriculturer (ag-ri-kul'tūr-èr), n. One engaged in farming operations; a husbandman. *Colentary operations of the fact of the results of investigations are diffused by means of an extensive free literature.

*Agricultural technology (including dairy including dairy including dairy including dairy including dairy including dairy includin

tiodactyl mammals, whose members are inter-mediate in character between the pig and the deer. The type genus, Agriccharus, from the White River Oligoene, has somewhat claw-shaped hoofs, no upper incisors, an open orbit, and complex last premolars.

upper incisors, an open orbit, and complex last premolars.

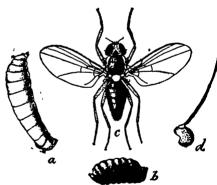
Agriocherus (ag'ri-ō-kô'rus), n. [NL., \lambda Gr.

\[\bar{a}\chi\nu_0\chi_0\chi, a\chi\nu_1\chi\nu_1\chi, a\chi\nu_1\chi
\] A genus of imperfectly known ungulate mammals from the Tertiary of North America.

Agriotypidæ (ag'ri-ō-tip'i-dē), n. pl. [NL.;
\(\lambda \) Agriotypidæ (ag'ri-ō-tip'i-dē), n. pl. [NL.;
\) Agriotypidæ (ag'ri-ō-tip'i-dē), n. pl. [NL.;
\(\lambda \) Agriotypidæ (ag'ri-ō-tip'i-dē), n. pl. [NL.;
\) Agriotypidæ (ag'ri-ō-tip'i-dē), n. pl. [NL.;
\(\lambda \) Agriotypidæ (ag'ri-ō-tip'i-dē oidea. It contains the single genus Agriotypus and the single species A. armatus, whose larva is parasitic on trichopterous larva.

Agriotypus (ag-ri-ot'i-pus), n. [NL. (Walker, 1832), (Gr. ἀγριος, wild, + τύπος, type.] A remarkable genus of ichneumonoid parasites typical of the family Agriotypidæ. Only a sinical of the family Agriotypidæ. Only a single species, A. armatus, inhabiting Europe, is known. It descends under the water to lay its eggs in caddis-fly larvæ. Its larva lives inside the cases of the caddis larvæ, and undergoes a hypermetamorphosis, transforming to pupa in a cocon attached to the wall of the case of the host. To the cocon is attached a long string-like process, the function of which is unknown.

Agr. M. An abbreviation of L. Agriculturæ Magister, Master of Agriculture.



Agromyza trifolii, Burgess. a, larva; b, puparium; c, fly; d, antenna of fly. Much enlarged. (Riley, U. S. D. A.)

romuzidæ, of wide distribution and containing species which in the larval state damage the stems of grasses and small grains. A. trifolii is a leaf-miner which affects the leaves of clover.

Agromyzidæ (ag-rō-miz'i-dō), n. pl. [NL., < Agromyza + -idæ.] A family of acalyptrate Diptera comprising a series of small dull-colored flies whose larvæ burrow in the leaves and

stems of living plants or (as in the genus Leucopis) feed on plant-lice and scale-insects.

agronomy, n. 2. Specifically, a group of agricultural subjects, particularly when set off as a department of instruction in agriculture. a department of instruction in agriculture, In this use it has not yet acquired a definite meaning, although it is generally held to be limited, properly, to farm crops and methods of cropping. In this signification it includes all forage, hay, cereals, and other general farmorps, but not fruits and other strictly horticultural crops. With the department of agronomy are often associated the subjects of farm-machinery, rural engineering, and rural architecture. [Racent.] rural architecture. [Recent.]

Agronomy as here used is restricted to the theory and practice of the production of farm crops.

T. F. Hunt, The Cereals in America, p. 2.

a grotesche (ä grotes'ke). [It.] With grotesques: said of a style of decoration consisting of human figures with foliated limbs, in combination with animals, painted usually in

yellow on darker grounds on majolica ware.

agrypnode (a-grip'nod), a. [Gr. ἀγρυπνώδης,
 ⟨άγρυπνος, seeking sleep, sleepless, ⟨άγρεῖν,
 seek, hunt, + ὑπνος, sleep.] That prevents
 sleep: as, agrypnode fever. Syd. Soc. Lex.
 aguacate (ä-gwä-kä'tä), n. [Nahuatl, ahuacatl:

agnacate (ä-gwä-kä tā), n. [Nahuatl, ahuacatl: the name became in colonial Sp. perverted to "avocate, avocate, avocado, abogado, etc., and so to alliquotor(-pear).] The alligator-pear. The tree yields a reddish-brown, soft, and very brittle wood. Also known as the butterpear and vegetable marrow.

agnacatillo (ä'gwä-kä-tēl'yō), n. [Sp., dim. of aguacate, the alligator-pear.] A name in Porto Rico of two trees, Meliosma obtusifolia and M. Herbertii, belonging to the family Sabiacese. They yield a soft white wood. Also called cacao bobo.

aguaji (ä-gwä-hê'), n. [Cuban Sp., from a native name.] A Cuban name for species of large bass-like fishes or groupers, especially for Mycteroperca bonaci.

Mycteroperca bonaci.

aguavina (ë-gwë-ve'nä), n. [Amer. Sp., of un-ascertained origin.] A serranoid fish, Diplec-

Agr. M. An abbreviation σ.

Agromania (ag·rō-mā'ni-ā), n. [NL., ⟨Gr. ἀγρός, open country, + μανία, madness.] A morbid impulse to wander or dwell away from human habitations.

Agromyza (ag·rō-mī'zā), n. [NL. (Fallen, woolen cloth used by the Indian women of Bolivia for carrying their children on the back.

Compare **atado.

ague, n.— Brass-founders' ague, symptoms of zinc-polsoning in brass-workers who are exposed to the fumes of this metal.— Irish ague, typhus fever.— Shaking ague, the worst form of the malarial paroxysm, begin-ning with a pronounced chill.

ning with a pronounced chili.

aguilarite (ä-gi-lă'rīt), n. [From Aguilar, a personal name.] A rare sulphoselenide of silver found at Guanajuato, Mexico.

aguil-boquil (ä'gēl-bō'kēl), n. [Native name.]

The Chilean name for the berries of Lardizabala biternata, a climbing plant belonging to the family Lardizabalaces, with enormously long stems, which, after the application of heat, are used in place of ropes.

aguja (ä-gö'hä), n. [Sp., a needle: see aiguille.] The Cuban name of the needle-fisher and professions of the seedle-fisher.

or garfishes of the genus Tylosurus, as T. maor garfishes of the genus Tylosurus, as T. marinus and T. notatus. In Europe the name is also applied to species of Belone, as B. belone and B. acus.—Aguja blanca, the lesser or common spear-fish, Tetrapturus imperator. [Cuban.]—Aguja de casta, the great spear-fish, Tetrapturus amplus, ararefish weighing sometimes 800 pounds. [Cuban.]
agujon (ä-gö-hōn'), n. [Sp., < aguja, a needle.]
The Cuban name of the great garfishes or houndfishes, as Tylosurus raphidoma and other species of large size.

species of large size.

agulha (ä-göl'yä), n. [Cuban.] A fish belonging to the family Characinidæ found in fresh waters of South America.

fresh waters of South America.

agurin (ā'gū-rin), n. A trade-name for the mixture of sodium acetate and the sodium salt of theobromine. It is used as a febrifuge.

agush (a-gush'), adv. [a³ + gush.] In a gushing state; gushing. N. Hawthorne, Fr. and Ital. Note-books, II. 149. N. E. D.

Agynian(a-jin'i-an), n. [ML.*Agyni,*Agynii, in DuCange Agynni, pl.; (Gr. àyvvo, àyvvao, without a wife, (à-priv. + yvvi, woman, wife.] A member of a sect of the 7th century who condemned all intercourse with women.

demned all intercourse with women.

shakea (ä-hä-kā'ä), n. [Hawaiian.] A name
in Hawaii of several species of rubiaceous trees belonging to the genus *Bobea*. They yield a yellowish wood used by the natives for the rims of canoes, and for making poi-boards, canoe-paddles, etc.

headache-tree.

ahia (ä-hē'ä), n. [Tahitian.] In Tahiti, a
tree, Caryophyllus Malaccensis, occurring on
all the larger island groups of Polynesia and
in the Malay Archipelago. It is everywhere
valued for its fine crimson fruit.

valued for its fine crimson fruit.

ahinahina (ā-hē'nā-hē'nā), n. [Hawaiian, <
a + hina + hina, gray, hoary.] In Hawaii, a
tall, robust composite plant, Argyroxiphium
Sandwicense, with rose-purple flowers: named
from the lustrous silver-gray down which
thickly covers the leaves. Also called silver-

ahmedi (ä-me-dē'), n. [E. Ind.] A gold coin

ahmedi (a-me-de'), n. [E. Ind.] A gold com of Mysore, equal to 16 rupees.

Ahnfeltia (än-fel'ti-ä), n. [NL. (Fries, 1835), named in honor of N. O. Ahnfelt of Lund, Sweden.] A small genus of red algæ (Rhodophyceæ), widely distributed in the colder waters of both hemispheres: characterized by

waters of ooth nemispheres: characterized by a stiff, wiry frond. ahuehuetl (ä-wä-wä'tl), n. [Also ahuehuete; Nahuatl (central Mexico).] The swamp-cypress of Mexico, a tree frequently of very large press of Mexico, a tree frequently of very large size. The ahuehuetls in the former viceregal park of Chapultepec, near the city of Mexico, are noted for their size; but the most famous of all is the big tree at Santa Maria del Tule, in the Mexican state of Oaxaca. The circumference of this tree exceeds 130 feet.

ahuhu (ä-hö'hö), n. [Hawaiian.] A name in Hawaii of Cracca purpurea, a leguminous plant

used by the natives for stupefying fish. It possesses a narcotic property affecting the action of the heart. The plant is spread over a great part of tropical Asia and Australia. Also called auhola.

shum (a-hum'), adv. $[a^3 + hum]$ In a hum; humming: as, the air is all ahum with the sound of bees.

ahunt (a-hunt'), adv. [a3 + hunt.] On the hunt; anun (g-nunt), acc. (a - nunt.) Of the funt, hunting. Browning, Aristoph. Apol., p. 272.
ahypnia (a-hip'ni-ā), n. [NL., erroneously formed from Gr. ά- priv. + ύπνος, sleep. The proper form would be "anypnia, \ NGr. "άνυπνία, \ MGr. άνυπνος, sleepless, Gr. άν- priv. + ὑπνος, sleepless. Gr. άν- priv. + ὑπνος, sleepless.

\(M\text{Gr. ἀννπνος, sleepless, \langle Gr. ἀν- priv. + bπνος, sleep. \rangle Same as insomnia.
 \)
 \(A\text{ianteia} \)
 \(\text{a-yan-tē 'y\text{s}'} \), \(n. pl. \rangle \text{INL., \langle Gr. Alάντειας, adj., \langle Alaας (Alaντ-), Ajax. \rangle In Gr. antiq., a festival in honor of Ajax. Three of them were commonly celebrated, one at Opus in Locris in honor of Ajax, son of Oileus; one at Salamis in honor of Ajax, son of Telamon; and one at Athens in honor of Ajax, son of Telamon. In these festivals a bed was prepared on which was placed an effigy of the hero, as in the Lectisternium at Rome.

placed an effigy of the hero, as in the Lectisternium at Rome.

aianthous (ā-ī-an'thus), a. [Gr. ἀεί (Æolic ἀt), always, + ἀνθος, flower.] Ever-blooming, that is, blossoming through a large part of the season. F. E. Clements.

aichmophobia (āk-mō-fō'bi-ā), n. [NL., more reg. æchmo-, < Gr. aiχνη, point of a spear, etc., + -φοβία, < φοβείν, fear.] 1. A morbid fear of touching sharp-pointed objects, such as needles and pins.—2. A morbid fear of being touched by the finger or any slender object.

aid¹, n. 6. In the navy, an officer on the staff of an admiral whose duties are similar to those of an aide-de-camp to a general.—

First aid, immediate attention given to the injured, with the object of arresting hemorrhage, relieving pain, and preserving life until the services of a physician can be obtained.

be obtained.

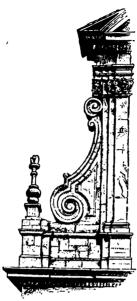
aidant, a. II. n. A helper or aid; an adjuvant or assistant. Sir R. Phillimore, Law Reps.

Aiden, Aidenn (ā'den), n. A fanciful form of Eden. Poe, Raven.

A. I. G. An abbreviation of Adjutant Inspector. General.

aigialosaur, n. See *ægialosaur.

aignes mortes (āg môrt). [F., dead waters.] Stagnant waters left in an abandoned riverchannel, as when an ox-bow is cut off from a river. Geikie.



Aileron, from façade of Church of Santa Maria in Via, Rome.

aim, n.—Point of aim, in archery, the point at which aim should be taken in order to hit the target: it varies with the distance, and may be above or below the target.

aimak (ī'mak), n.
[Mongol.] A group
of families, probably originally related by blood, forming the prin-cipal political unit among the Mon-gols. Each aimak is governed by its own chieftain.

aimara (ī-ma-rā'), n. [Tupi aimará.] A Bra-zilian name of Macrodon malabaricus, a river fish of the family Erythrinidæ.

Aimé's nephoscope. See *nephoscope. aimworthiness (ām'wèr-thi-nes), n. Excellence of aim. Blacknore, Lorna Doone, liv. N. E. D.

N. E. D.

ain² (in), n. [Ar. 'ain, the letter ain, also an
eye, a fountain, essence, = Heb. 'ayin, the
letter, also an eye.] 1. The eighteenth letter
of the Arabic alphabet, having a vibratory
palatal sound without any equivalent in English.—2. A spring; a fountain. See the extract tract.

Most of the . . . artesian wells [in the oases of the Libyan desert], known locally as "ains," are ancient.

Geog. Jour. (R. G. S.), XVI. 655.

ainalite (ā'nal-īt), n. A variety of cassiterite containing about 9 per cent. of tantalum pentoxid.

Ainu (ī'nö), n. See Aino.

Ainu (1'no), n. See Ainu.

aipim (ä-i-pēm'), n. [Also aypim, aypi. A
(former) native name (Tupi?).] The name in
Brazil of the sweet cassava. See cassava, 1, Manihot, and manioc.

ailantery

ailantery (ā-lan'ter-i), n.; pl. ailanteries (-iz).

[ailantus + -ery.] A grove of ailantus-trees.

ailantus worm (ā-lan'tus werm'), n. The larva of the bom bycid moth, Philosomia cynthia Drury, which feeds on the foliage of the ailantus. It is a native of Japan and Java, where its silk is utilized to some extent. It has been introduced for sericicultural purposes into Europe and the United States.

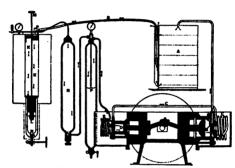
aile, n. A simplified spelling of aisle.

ailen, n. A simplified spelling of aisle.

ailen n. 2. In arch, that piece of the aislernon, n. 2. In arch, that piece of the end wall, as of nave or transept, which covers the end of the aislernon, n. 2. In arch, that piece of the end wall, as of nave or transept, which covers the end of the aislernon, n. 2. In arch, that piece of the end wall, as of nave or transept, which seems of power of aisle aisle.

ailen n. A simplified spelling of aisle.

ailen n. A simplifie



Hampson's Liquid-air Apparatus. (From Travers's "Exper. Study of Gases

The jet L can be closed by means of a rod which screws down on the top of it and which can be adjusted to form an annular opening by the milled screw-head M. The coils are inclosed by a cylinder of insulating material, except the lower part and the valve, which are contained in a vacuum vessel, N. The liquid air is run off through the tap o. The air which escapes liquefaction passes upward over the coils and through P and R to A. The actual quantity which passes through the apparatus. The yield in an apparatus of this size is 1-1.5 liters of liquid air an hour. In a newer form of liquefier the liquid air collects in a metal reservoir placed within the insulation, its quantity being indicated by a glycerol-gage. Liquid air. See liquefaction of gases, under liquefaction.—
Mephitic air, a name early in use to signify an irrespirable gas or mixture of gases. It applied chiefly to carbon dioxid as in the choke-damp of coal-mines, but was also used for the mixture of this gas with nitrogen in air in which a candle had ceased to burn or an animal to breathe.—Supplemental air. Same as residual air (which see, under air).

3ir-bag, n. 2. The presser of a pneumatic molding-machine. It consists of bags inflated with

molding-machine. It consists of bags inflated with

air, by which an elastic and equal pressure is imparted to the sand. Lockwood, Dict. Mech. Eng. Terms. Airbags are also used in cases where a uniformly distributed pressure is desired, as in blue-printing frames.

air-barometer (ār*ba-rom*e-tér), n. An apparatus devised by F. H. King to determine small oscillations in the level of well-water depending on small oscillations of atmospheric pressure. It consists of a large great full of absorber of the large great full of a barded. depending on small oscillations of atmospheric pressure. It consists of a large vessel full of air buried deep in the soil in order to keep its temperature constant; some mercury rests at the bottom of the vessel, and into this dips a tube extending vertically above the surface of the ground. The changes of air pressure force the level of the mercury in the tube to change correspondingly, and these changes are recorded on a revolving drum.

air-beat (ãr'bēt), n. In acoustics, an individual pulse of air such as may be felt mechanically pulse of air such as may be felt mechanically where the waves from a vibrating body are of very low frequency. For frequencies within the auditory range the air-beats cannot be separately distinguished, but blend into a tone. air-bell (ar bel), n. 1. In Auronectæ, a large roundish gas-secreting organ, probably a modified swimming-bell: an auronhore.—2. A ified swimming-bell; an aurophore.—2. A small bubble which appears on a photographic plate, sensitized paper, or film.

the twyer zone of a cupols. The air passes from this space into the twyers instead of going directly from the blast-pipe.

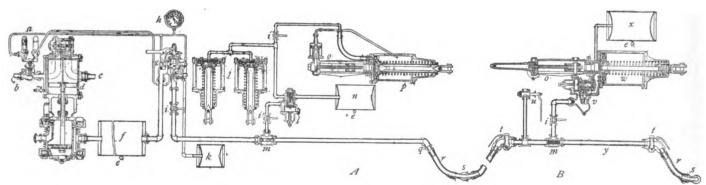
air-billow (ar'bil-o), n. An air-wave which is long and gentle; specifically, a wave produced at the boundary surface between two horizon-tal layers of air having different velocities and directions: analogous to the waves on the surface of water.

air-bladder, n. 3. See *air-float.—4. In entom., one of the numerous bladder-like endings of smaller traches in the bodies of many insects, which, filled with air, greatly reduce the specific gravity of the insect.

air-bound (ar'bound), a. Bound or stopped up so that the passage of air is prevented: in plumbing, said of a water- or drain-pipe so obstructed.

plumbing, said of a water- or drain-pipe so obstructed.

air-brake, n.—Automatic air-brake, a form of air-brake which automatically applies the brake-shoes to the wheels with maximum pressure on each car in a train, without the aid or knowledge of the engineer or train-crew, whenever, from any cause, a rupture occurs in the brake-pipe which runs throughout the length of the train—as, for example, when the train breaks in two. Compressed air is supplied from large main reservoirs on the locomotive, through the brake-pipe, auxiliary reservoirs on each car, and a 'triple valve' forms the connection between the brake-pipe, auxiliary reservoir, and brake-cylinder. Any fall in pressure in the brake-pipe causes the triple valve to connect the brake-cylinder with the auxiliary reservoir and to apply the brakes. When the brake-pipe pressure is reinstated, the triple valve connects the brake-cylinder with the atmosphere and the auxiliary reservoir with the brake-pipe. The automatic brake was invented by George Westinghouse in 1872.—Quick-action automatic air-brake, an improved form of air-brake by which the time required to apply the brakes in an emergency on atrain of fifty freightcars was reduced one half. The improvement consisted in enlarging the brake-pipe and changing the triple valve (see*active) by enlarging the ports and passages, and also by adding a secondary valve portion by which, in emergency application, a part of the brake-pipe pressure is vented into the brake-cylinder, thereby increasing the brake-cylinder pressure and hastening the fall of brake-pipe pressure, thus causing the successive application of the quick-action automatic air-brake does not differ rapidly. In ordinary service applications the operation of the quick-action automatic air-brake does not differ



Quick-action Automatic Air-brake.

A. Engine Equipment: a, duplex pump-governor; b, from boiler; c, exhaust; d, nine and one half inch air-pump; c, drain-cock; f, main reservoir; g, engineer's brake-valve; h, gage; i, cut-out cock; f, driver brake-cylinders; h, equalizing reservoir; l, plain triple; m, air-strainer; m, truck and driver brake reservoir; o, automatic slack-adjuster; p, truck brake-cylinder; g, angle-fitting; r, hose; s, hose-coupling. B, Car Equipment: L, angle-cock; m, conductor's valve; m, air-strainer; u, cut-out cock; v, quick-action triple valve; p, automatic slack-adjuster; m, car brake-cylinder; c, drain-cock; x, auxiliary reservoir; y, train-pipe; r, hose; s, hose-coupling. The tender equipment (omitted) is similar to the car equipment.

from that of the plain automatic above mentioned. This improved form was invented by George Westinghouse in 1887.—Straight-air brake, the original form of airbrake, in which the brake-pipe connects the brake-cylinder on each car to a valve on the locomotive, by means of which the engineer can allow air-pressure to flow from the large reservoirs on the locomotive directly to each brake-cylinder to apply the brakes, or he can connect the brake-pipe with the atmosphere to release the brakes. In this system the brake-pipe is under pressure only during an application of the brakes. This form of brake was first patented in England early in the nineteenth century, and was first applied to railway service in America by George Westinghouse in 1869.

air-cataract (ar'kat'a-rakt), n. A device to check the vibrations or oscillations of a body, and also to cushion or soften the blow of a and also to custom or sorten the blow of a body brought suddenly to rest. It consists of an air-cylinder having a moving piston or disk attached to the body whose notion is to be checked or damped. The confined air, being allowed to escape only through small openings in the end of the cylinder or through the piston or disk, checks the vibration or the motion of the piston and the body to which it is attached.

air-chamber, n. 4. A septal chamber in the nautilus and other chambered cephalopods like the ammonites, goniatites, and orthoceralike the ammonites, goniatites, and orthoceratites. 'The name was commonly thus employed in the belief that these spaces, successively abandoned by the animal as the forward growth of the shell continues, were filled with air which facilitated the flotation of the shell when the animal chose to rise to the surface of the sea. It is now regarded as doubtful if gases ever enter these chambers during life. Verrill has pointed out that water has access to the elastic siphuncular tube, "but living, as the animal does, under pressure at considerable depths, the fluid in the chambers is saturated with the gases in solution. When the Nautius is rapidly brought to the surface, some of the gas is liberated in consequence of diminished pressure and must occupy part of the space within the chambers by forcing out some of the fluid. Hence the shell will float until the free gases within the chambers are absorbed or otherwise eliminated." Also termed camera and loculus.

5. In bot: (a) One of the mostly prismatic

5. In bot.: (a) One of the mostly prismatic intercellular spaces occurring in aquatic plants. (b) The intercellular area beneath a stoma.

air-channel (ar'chan'el), n. 1. A channel for the passage of air.—2. pl. Channels underneath the hearths or in the brickwork of the walls and fire-bridges of reverberatory fur-naces, designed to protect the foundations from the intense heat of the furnace as well as to preheat the air entering the furnace.

air-compartment (ar'kom-part'ment), n. air-tight subdivision of a shaft or other mine passage for the ventilating current.

air-compressor, n. 2. A combined steamengine and air-compressing cylinder, or a compressing-cylinder operated by a motor or by
belting. A typical form has 4 horizontal cylinders arranged in tandem pairs. One pair is composed of the
high-pressure cylinder of the engine and the first aircompressing cylinder; the other pair consists of the
larger, low-pressure steam-cylinder and a second and
larger cylinder which recompresses the air already compressed in the first cylinder. Each pair has one pistonrod which unites the pistons in each cylinder and extends
beyond the steam-cylinder through a connecting-rod to a
fly-wheel, the two rods thus being joined and moving together through the fly-wheel. Each air-cylinder is water-jacketed to keep it cool and to absorb and carry away
the heat of compression. The air compressed in the first
cylinder passes to the second cylinder through a group
of pipes inclosed in a large pipe which carries a stream
of cold water that absorbs more of the heat of compression from the air, and is again compressed. From the
second cylinder the compressed air may pass through a
second cooler or be delivered direct to the air-receiver
for storage and cooling, ready for use in rock-drills or
other air-motors. Other types of air-compressors consist
of single or compound vertical engines or of single-acting
air-compressing cylinders operated by a crank from a
belt-driven fly-wheel. air-compressor, n. 2. A combined steam-

air-condenser (ar'kon-den'ser), n. 1. An electric condenser made by having two thin metal plates separated by a layer of air, one plate being connected to a positive pole and the other to a negative pole from the same circuit. The action of such a condenser is exactly the same as that of a Leyden jar; when there is sufficient potential to overcome the resistance, the condenser discharges.

2. A condenser for steam in which air is used for cooling the condensing surface instead of water: used on some motor-cars.

air-cooled (ar'köld), p. a. Cooled by a current of air; having its heat carried off by passing cool air over its surface.

air-cube (ãr'kūb), n. The amount of air in a closed space available for respiratory purposes by each person occupying it. It is expressed by the cubic contents of the space divided by the number of persons.

air-cure (ar'kūr), n. Same as aërotherapeutics. air-cushion, n., 4. Specifically, a volume of air imprisoned behind a movable piston in a chamber which it aits. The air, by its compression, gradually arrests the

motion of the piston. Used as a safety appliance at the foot of elevator-shafts to catch and stop the fall of the cage in case of the breaking of the hoisting-rope or other

air-cylinder, n. 2. Any cylinder in which air is used, as in an engine run by compressed air instead of by steam.

air-door (ar'dor), n. A door for the regulation of currents of air through the workings of a mine. Coal and Metal Miners' Pocket-book.

air-drain, n. 3. A pipe or flue built into a fireplace to insure an ample supply of air.

air-duct, n. 2. In building, same as *air-drain, 3.—3. In the heating and ventilation of buildings, a large pipe, often built of wood or thin metal, used to transmit air, either cold or hot.

air-embolism (ar'em'bo-lizm), n. Air-bubbles in a blood-vessel, causing obstruction of the flow of blood.

air-extractor (ãr'ekstrak'tor), n. A device for separating air from a lianid.

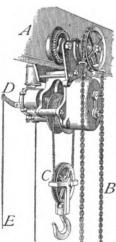
air-float (ar'flot), n. A bladder formed in the fronds of certain Phæophyceæ, or brown algæ (Fucus, Ascophyllum, Sargassum, etc.), which serves to float the plant in the water and possibly assists fertilization. Also air-bladder and air-

air-funnel, n. 2. In zoöl., the lower, gas-secreting portion of the pneumatoeyst of physophorous si-phonophores.

air-gap (ar'gap), n. In elect., the opening or space between the poles of a magnet or between the armaturesandpole-pieces of a dynamo or motor; that portion of a magnetic circuit which contains

no iron; the space between the terminals of an electrostatic machine, induction-coil, or discharger.

air-gas, n.—Harcourt air-gas pentane standard, a mixture of 3 cubic feet of air and 9 cubic inches of liquid pentane, a product of American petroleum distilling at a temperature below 50°C. and having a specific gravity between .6298 and .63, producing 4.05 cubic feet of standard airgas. This gas is burned at a burner with an orifice of \(\frac{1}{2}\) inch to produce a flame \(\frac{2}{2}\) inches high, with light of this flame is equal to that of a British standard candle. First suggested by A. G. Vernon-Harcourt in 1877.



Motor Air-hoist. A, trolley on flange of 1 -beam; B, chain controlling trolley; C, hoisting-block and chain; D, motor for hoist; E, chain control-

G. Vernon-Harcourt in 1877.

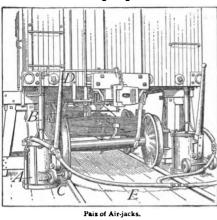
Air-hoist, n.—Cylinder air-hoist, an air-hoist employing a long cylinder fitted with a piston and piston-rod, the weight to be lifted being suspended from the lower end of the latter. The compressed air is delivered through hose to the lower end of the cylinder, forcing the piston upward and lifting the weight. To lower the load the air is released and the piston allowed to fall slowly. The load can be held at any point of the hoist and safety appliances prevent the too sudden rise or fall of the piston through loss of load or loss of air-pressure. Cylinder-hoist see horse. through loss of load or loss of air-pressure. Cylinder-hoists are hung by a hook in fixed positions or attached to a trolley traveling on an overhead track, to the jib of a crane, or to a traveling-crane. Telescopic cylinders are used where head-room is limited.— Motor air-hoist, a chain-hoist operated by an air-motor. It may be suspended in a fixed position or from a trolley traveling on an overhead track or on a traveling-crane.

Fucus vesiculosus showing air-floats

(From Murray's "Introd. . . . to Seaweeds."

air-insulated (ar'in'sū-la-ted), p. a. In elect. or heat, insulated by means of an intervening layer of air.

air-jack (ar'jak), n. A lifting-jack operated by compressed air. It consists of an upright cylinder with a piston, the piston-rod acting as the lifting-arm of the jack. In one form the cylinder is telescopic. It is



A, cylinder; B, piston rod used to lift the car; C, wheels, and D, handle, for moving the air-jack; E, air-hose from compressor.

usually fitted with wheels for transportation, and is used

in railroad car-shops.

air-jacket, n. 2. A space surrounding a steamcylinder or other vessel within which is circulated hot air or gas, or within which ordinary air is confined without circulation: used to diminish loss of heat by radiation through the walls of the cylinder and to lessen cylindercondensation of steam back to water. Its func-tion is the same as that of the steam-jacket. Since air is one of the best non-conductors of heat when it is not allowed to circulate, an air-jacket may also be used to keep the cylinders of a refrigerating apparatus from be-ing warmed by the outside air.

3. A closed space, usually annular, about some part of a machine or piece of apparatus, designed to secure uniformity of temperature.

signed to secure uniformity of temperature. air-jacket (ār'jak'et), v. t. To provide with an air-jacket. See *air-jacket, n., 2. air-jig (ār'jig), n. In mining, a machine which effects the separation of minerals according to their specific gravity by intermittent rising currents of air which lift the lighter particles of gangue and permit the heavier metallic or gangue and permit the neaver metanic minerals to settle. The light tailings flow off at the top and the concentrates are discharged from below by some mechanical device. The Paddock-Hooper pneumatic concentrator and the Vrom air-jig are the principal machines of this class.

air-leak (ār'lēk), n. In electrostatics, the loss of charge, in the case of an insulated body, due to the discharging action of the surrounding air.

air-level (ar'lev'el), n. A level or airway of deeper mining operations for ventilating purposes. Coal and Metal Miners' Pocket-book.

poses. Coal and Metal Miners' Pocket-book.

air-lift (är'lift), n. A device for raising water
from deep wells by means of compressed air.
It comprises an air-compressor and two pipes open at the
lower end and placed one within the other in the well.
The compressed air passes down the inside pipe to the
bottom of the well, where it rises through the larger
pipe and through the water which fills the lower part of
it, carrying the water upward with it and delivering it
at the surface. The system can be so applied to a group
of wells as to lift several million gallons a day.
air-liquefler (är'lik'wē-fi-èr), n. An apparatus
for converting air under pressure into liquid

for converting air under pressure into liquid air by the effect of cooling.

air-meter, n.— Biram's air-meter, a modification of the Casella air-meter in which a large light radial fan is kept in rotation by the current of air to be measured. The apparatus is usually graduated so as to show the vol-ume of fresh air that passes through the shaft leading to a mine or a room that needs ventilation.

one who is taken up with the pursuit of visionary or impracticable projects. Felltham, Resolves, I. xv. [Rare.] N. E. D. airol (ar'ol), n. A greenish-gray, fine, volu-

minous, odorless, and tasteless powder, said to be an oxylodide of bismuth subgallate. It is absorbent and antiseptic.

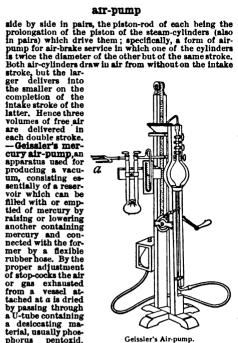
air-plate (ar'plat), n. A plate perforated to allow the passage of a limited amount of air; a perforated baffle.

air-pressure (ar'presh'ūr), n. The barometric pressure or elastic pressure of the atmosphere. It is expressed in pounds per square inch, or in dynes per square meter, or, more commonly, by the height of the mercurial column of the barometer, and sometime in units of one standard atmosphere.

air-proof (ar'prof), v. t. To protect from in-jurious action of the air or of some of its in-gredients, as by a suitable varnish applied to the material to be protected.

air-pump, n.—Duplex air-pump, a form of air-pump in which two air-pumping cylinders are placed

proper adjustment of stop-cocks the air or gas exhausted from a vessel attached at a is dried by passing through a U-tube containing a desiccating ma-terial, usually phosphorus pentoxid, and is either col-



and is either collected over mercury held in a trough or is driven into the air. A barometer-gage indicates the degree of exhaustion. The raising and lowering of the reservoir holding the mercury are effected either by hand or by the use of a simple mechanical device.—Toepler's mercury air-pump, a modified form of the Geissler air-pump; in which a glass valve replaces the controlling stop-cock and a barometer-tube serves to permit the exhausted air to escape.

air-regenerator (ar'rē-jen'e-rā-tor), n. The regenerator through which atmospheric air passes to be heated on its way to a steel-melting or reheating furnace, a zinc furnace, a coke-oven, etc. It is larger than the corre-

sponding gas-regenerators.

air-register (ar'rej'is-ter), n. Same as register¹, 8.

air-sac, n. 3. In bot., a cavity in a pollengrain of the genus Pinus.

air-separator (ar'sep'a-rā-tor), n. In mining, a machine which effects the separation of minerals according to size or density by air, either by pulsating rising currents (see *air-jig); or by a continuous blast, as in the Edison, Hochstedt, and other dust-separators; or by projecting the particles to be separated by mechanical means into still or moving air, as in the centrifugal separators of the Pape-Hen-neberg and Clarkson-Stanfield types.

airship (ar'ship), n. A buoyant balloon provided with a motor, propellers, and rudders, so that it can navigate the air under the conballoons are made in various elongated, more or less cigar-shaped, forms and have successfully traversed long dis-

in. The air-tap is placed at the highest point in the series of pipes. Air-taps in pumps and engines are called petcocks. Lockwood, Dict. Mech. Eng. Terms. air-tester (ar'tes-ter), n. An apparatus for testing the quality of air, as in inhabited

apartments.

apartments.

3. A small funnel of glass fas
artman. n. 3. A small funnel of glass fasair-trap, n. 3. A small funnel of glass fas-tened in the inside of a barometer-tube to catch any bubbles of air that would otherwise rise through the mercury into the vacuum-cham-

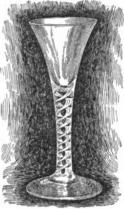
air-twist (ar'twist), n. A bubble of air which is sometimes contained in the stem of a vessel of glass, and which, in twisting, becomes a hollow spiral.

The secret of the construction of two of the classes — namely, the brilliant, and the con-

brilliant, and the con-bined opaque and air-turist — seems to have been lost.

Wynn Penny, English
Eighteenth Century
Drinking Glasses, Bur-lington Mag., III. 63.

air-twisted (ar'-twis'ted), p.a. Hav-ing an air-twist. See air-twist.



Glass Vessel, showing Air-twist.

air-valve, n. 3. In an engine-cylinder, and particularly on the locomotive engine, a valve which is held shut by steam-pressure when the throttle-valve is open, but which opens by a spring to admit atmospheric air when the throttle is closed and the pistons keep on moving from the momentum of the mass of engine and train. In the absence of such a valve the pistons reduce the pressure behind them, after a stroke or two, to a point at which the pressure in the cylinders is much less than that of the atmosphere; and when the exhaust-passage is opened a rush of air back through it will carry into the cylinders the products of combustion from the smoke-box, including cinders and grit, which are injurious to the working-surfaces. Such air-valves are placed on the steam-chest or connect with the steam-passages.

air-vesicle, n. 3. Same as *air-float.

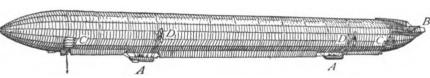
air-washer (ār'wosh-er), n. An appliance in which a current of moving air may be cleansed from dust or other particles, and from some polluting gases, by passing through water. The cleansing water may fall in a shower across the moving air by escaping from perforated pipes or through perforated metal screens; or the air may be compelled to escape by pressure under the lower edge of a plate which is immersed an inch or two in the water.

air-wave (ãr'wāv), n. A wave in the atmosing from the momentum of the mass of engine

air-wave (ar'wav), n. A wave in the atmosphere. It may be either a wave of compression and rarefaction, like those of sound; or a tidal effect like the ocean tides; or a wave of progression like that produced by the outburst from Krakatua in 1883. In the case of the Krakatua outburst, the wave moved around the globe several times at an average velocity of 700 miles an hour, and the accompanying sound-wave was heard several hundred miles away.

ais (8-8s'), n. [Native name.] A name in Ponape, Caroline Islands, of Parinari laurinum, a tall tree having oblong leathery leaves.

a tall tree having oblong leathery leaves.



Airship Zeppelin III. A, A, engines; B, rudder; C, C, dipping-planes; D, D, propellers.

tances under good control. The first notably successful experiments with the dirigible balloon were made by Alzoaceæ (ā*'i-zō-ā'sē-ē), n. pl. [NL. (Alex-Renard, in France, 1884-85; he attained a velocity of 14 miles an hour and was able (as a rule) to return to his starting-point. In 1900 Count Zeppelin made short voyages or Lake Constance in a dirigible of his own design, which has been remodeled and improved until in 1900 it made voyages of several hundred miles. Other successful experimenters have been Santos-Dumont, whose air-ships (successive models) accomplished notable results in 1900 and 1901, Lebaudy in France, Gross and Parseval in Germany, and Thomas S. Baldwin in the United States.

air-stone (ār'stōn), n. [air¹+stone.] A metorite. [Rare.] N. E. D.

air-stone (ar'ston), n. [air¹+stone.] A meteorite. [Rare.] N. E. D.
air-tap (ar'tap), n. A cock or valve fixed in the air-pipe in hot-water apparatus, to allow of the escape of air from the series, which without this means of exit would accumulate there-

 $\langle Gr. a\epsilon i \zeta \omega o v, an evergreen plant, supposed to be the houseleek, <math>\langle a\epsilon i, ever, + \zeta \omega o \varepsilon, living. \rangle$ 1. A genus of dicotyledonous plants, type of the family Aizoaceæ. They are evergreen spreading herbs or small shrubs, with fleshy, entire leaves, and axillary, solitary or cymose, yellow flowers. The ten species are natives of the warmer parts of the old world, six being found in South Africa and one in Australia, while the others occur mainly in the Mediterranean region. The most widely distributed species is A. Canariense, which occurs in the Canary and Madeira Islands, in the Azores, South Africa, and through southern Asia to India. A. Hispanicum is a characteristic plant of southern Italy and Spain, also occurring in northern Africa and extending eastward to Persia.

2. Sometimes used as a specific name for

2. Sometimes used as a specific name for plants of a low and tufted, persistent character, as Anthemis Aizoön, Saxifraga Aizoön.

as Anthems Action, Sarry and Alzoon.

aja (â'yā), n. A South-African Dutch form of the East Indian ayah, a nurse; a lady's-maid.

ajacol (a-jak'ol), n. An oleaginous fluid, congealing to a crystalline mass at low temperatures. It has the same properties as guaiacol.

Also called guaethol and than to.

ají (ä-hé'), n. [Sp., formerly axi; of W. Ind. (Taino) origin.] A red pepper. See pepper, chilli. and nimento.

(Taino) origin.] A red pepper. See pepper, chilli, and pimento.—Alf dulce, the sweet pepper, Capsicum annum.—Alf picante, the fruits of Capsicum frutescens and C. baccatum, the pungent red peppers used in the preparation of Cayenne pepper.

ajo (a'hō), n. [Sp., < L. allium, garlic.] 1. The garlic, Allium sativum.—2. A very large tree of Peru and Bolivia, Cordia alliodora, which when wounded gives forth from its bark and leaves a penetrating odor of garlic. See garlic. ajog (a-jog'), adv. [a³ + jog.] On a jog; at a leisurely pace. G. Meredith, The Egoist, II. 100.

ajonjoli (ä-hōn-hō-lē'), n. [Sp., ajonjoli, al-jonjoli.] The sesame, Sesamum orientale, the jonjoli.] The sesame, Sesamum orientate, and jonjoli, also called benneseed, yields a

seed of which, also called benneseed, yields a bland oil. See sesame.

Ajuga (a-jö'gä), n. [NL., < L. ajuga, name of a plant.] Ä genus of hardy, herbaceous, European perennials, members of the family Menthaceæ, creeping by stolons, and commonly known as *bugle-weed. Some of them are grown as garden plants, in rockeries and borders, although they are not generally known in America. Of the 30 known species, A. Geneensie, A. pyramidalis, A. reptans, and A. metallica are nost common in gardens.

ajugate (a-jö'gāt), a. [a-18 + jugate.] Having no jugum.

ing no jugum.

ajutment (a-jut'ment), n. [Irreg. <a-+ jut + ment, after abutment.] A jutting out; a projection. [Rare.]

The ajutment of a hill toward the sea.

Marryat, Peter Simple, III. 323. N. E. D.

ak (äk), n. [Hind. āk, < Skt. arkā, name of a tree or shrub, lit. ray, or sun.] The red-flowered form of Calotropis gigantea. See madar and yercum. [Northern India.] aka (ä'kä), n. [Maori aka, name of the plant, lit. long fibrous roots: see *aalii.] A climbing epiphyte of the myrtle family, Metrosideros ecandens. It completely envelops the tree on which it

epiphyte of the myrtle family, Metrosideros scandens. It completely envelops the tree on which it grows, which ultimately dies, the wood decaying. The epiphyte remaining forms a hollow cone. [New Zealand.] akaakaawa (ä'kä-ä'kä-ä'wä), n. [Hawaiian, < aka-aka (Maori kata), laugh at, + awa, fine rain or mist. The plant is found in greatest profusion in humid mountain ravines near the spray of waterfalls.] Hillebrandia Sandwicensis, a beautiful plant of the begonia family, bearing clusters of delicate pink-andwhite flowers. [Hawaii.] akaakai (ä-kä'ä-kä'ë), n. [Hawaiian.] In Hawaii, a bog-plant, Scirpus lacustris, 'the stems of which are used in making mats and bags.

akahara (ä-kä-hä'rä), n. [Jap., < aka, red, + hara, belly.] The Japanese name of a large chub of the family Cyprinidæ, Leuciscus baknensis, found in the waters of Japan. Also known as uqui.

akala (ä-kä'lä), n. [Hawaiian.] EMALE (a-ka la), n. [Hawaiian.] In Hawaii, a native species of raspberry, Rubus Macræi. The fruit often attains a diameter of nearly two inches, is of a deep-red color, is very julcy, and, although slightly bitter, is agreeable to the taste. The name is also somether given to another raspberry, Rubus Havateinsis, the fruit of which is not so large and is dry and unpalatable. In Hawaii.

akanthion, n. See *acanthion. akaroa-tree (ä-kä-rō'ä-trē), n. [Maori.] New Zealand lace-bark or ribbon-tree. [Maori.] The Plagianthus.

Plagianthus.

akaryota (a-kar-i-ō'tā), n. pl. [Gr. à-priv. + κάρνον, nut (nucleus).] In biol., non-nucleated cells, as opposed to nucleated cells or karyota.

akasha (ä-kä'shā), n. [Skt. ākāçā, clear space, ether.] Ether; one of the five gross elements (the others being air, fire, water, and earth) which, according to the Sānkhya system of Indian philosophy, make up the visible world; the subtile fluid which fills and pervades infinity and is supposed to be the peculiar vehicle

akcha (âkh'chā), n. [Also akchek, aqcha; Turk. akcha, aqcha, money, coin, cash, a monetary value, an asper; as adj. rather white, whitish: see asper².] A very small Turkish silver coin of the value of ‡ para.

silver coin of the value of † para.

ake? (ä'kā), n. [Maori, < ake, onward, ake ake ake, for ever and ever. The allusion is to the durable qualities of the wood.] 1. In New Zealand, a small tree, Dodonæa viscosa, of the soapberry family, with very hard variegated wood.—2. In the Chatham Islands, a small tree, Shawia Traversii (Olearia Traversii of Hooker), of the aster family.

akea (ä-kē'ä), n. Same as *akia.

akeratophorous (a-ker-a-tof'o-rus), a. Same

as aceratophorous (a-ker-a-tor y-rus), u. Same as aceratophorous. askerite (ak'e-rīt), n. [Norw. Aker, a locality in Norway, + -ite².] In petrog., a term applied by Brögger (1890) to a syenite containing much plagioclase, with biotite, augite, and some quartz.

akermanite (åk'er-man-īt), n. [For Richard Akerman, a Swedish mineralogist.] An artificial mineral species closely related to melilite:

identified in certain slags. Akhmimic (äch-mim'ik), a. and n. I. a. Of

or pertaining to Akhmim or to its language.

II. n. One of the main divisions of Coptic, spoken in the neighborhood of Akhmim.

akhter (äk'ter), n. [E. Ind.] A copper coin of Mysore, equal to one fourth of a paissa or pice.

akhyana (ä-ki-ä'nä), n. [Skt. ākhyāna, tale (cf. ākhyā, name), <ā- + vkhyā, call, name.] A tale; a story; a legend. Encyc. Brit., XXVI.

akia (ä-kē'ä), n. [Hawaiian.] A name in Hawaii of several shrubs belonging to the genus Capura, of the family Daphnaceæ, particularly of C. viridifora (Wikstræmia viridiSamoan, and Fiji Islands. The bark contains an acrid narcotic principle, and is used by the natives for narcotizing fish in fresh water. The stems yield a strong, flexible bast fiber. Also spelled akes.

Alabama (al-a-bä'mä), n. [NL. (Grote, 1895),

akiahala (ä-kē'ä-hä'lä), n. [Hawaiian.] In Hawaii, a small shrub, Hibiscus Youngianus,

with pink flowers.

Akinesia algera. [Gr. aλγηρός, painful.] Loss of the power of motion as a result of pain.

akinesis (ak-i-nē'sis), n. In biol., direct cell-division or the amitotic multiplication of cells.

akinete (ak'i-nēt), n. [Gr. à-priv. + κυητός, movable: see kinetic.] The resting-spore of certain algo formed directly from a vegetative cell by the simple thickening of the wall and Same as hypnocyst. without rejuvenescence.

as *amitotic, *karyostenotic, or direct (cell-division).

akkum (ak'kum'), n. [Heb. 'akkum, formed of the initials of a Hebrew phrase of three words meaning a worshiper of the stars and constellations.] A star-worshiper, originally a Chaldean star-worshiper: applied in the Talmed mud to heathen idolaters; a pagan.

akolea (ä-kō-lā'ä), n. [Native name.] A name

akoulation, n. See *acoulation.

akouphone (ak'ö-fōn), n. [Incorrectly formed from Gr. ἀκούειν, hear, + φωνή, sound.] The trade-name of an appliance for enabling the deaf to hear, constructed on the analogy of the telephone.

akra (äk-rä'), n. [Hind. and Hindi akrā.] In India, a common name for the vetch or tare,

India, a common name for the vetch of tare, Vicia sativa. See Vicia.

akreophagist, n. Same as *acreophagist.

akreophalic, a. See acrocephalic.

akromegaly, n. See *acromegaly.

akromegaly, n. See *acromegaly.

akule (ä-kö'le), n. [Hawaiian.] A Hawaiian name of the goggle-eyed scad, Trachurops crumenophthalmus. Called atule in Samoa.

akum, n. See *akkum.

of life and sound. Unlike air $(v\bar{a}yu)$, which is akund (\(\vec{a}'k\)\(\vec{a}und\)), n. [Hind., \(\left\) Hindi akund, the elecampane, +-ol.] Same as alant camphor always moving and penetrates only where it tree.] The dried root-bark of Calotropis gi- (which see, under camphor). alantolactone (a-lan't\(\vec{c}\)-lak't\(\vec{c}\)n), n. [G. alant, especially as a substitute for ipecacuanha in elecampane, + lactone.] Same as helenin. sentery.

dysentery.

all. n. The name is applied in India to several species of Morinda, especially to Morinda citrifolia and M. tinctoria, trees belonging to the madder family, which grow spontaneously and are also cultivated for the sake of the dye obtained from the bark of their roots and stem. The smallest roots yield the most valuable dye, the stem the most inferior. The ald ye is gradually supplanting the more expensive red obtained from the Indian madder, or chaya root (Oldenlandia umbellata), with which the celebrated Madras handkerchiefs and turbans were formerly dyed. Morinda citrifolia, the principal al-tree, is widely spread throughout the East Indies, the west coast of Africa, and the islands of the Pacific Ocean, where its fruit is sometimes eaten by the natives. See **monu.

al-3. A nominal prefix, actually a reduction of alcohol in certain arbitrary formations, as aldehyde (and its numerous recent derivatives). *althionic, etc. Compare -al2. Compare alk- in

words like *alkamine, etc. (where alk-represents G. alkohol), and -ol, representing the last syllable of alcohol.

-al². In bridal, burial, etc., a nominal suffix, associated with -al¹, but actually of different origin, according to the story of each word. See the etymologies of the words cited.

al³. [al(cohol), al(dehyde). See *al³.] In chem., a termination now recognized as signifying that the body named is an aldehyde, or derived from alcohol. Thus ordinary aldehyde is also called *ethanal, that is, the aldehyde of ethane.

An abbreviation of American Library Association.

Also magna sphenoided, in ichth., same as proble; a lateral cranial bone just in front of the exoccipital. As used by Hallmann it is a synonym of the alisphenoid of Parker; as used by Erdi It is a synonym of the sphenotic of Parker.—Als orbitalis, in ichth., a term applied by Stannius to the alisphenoid bone.—Als parva, in ichth., same as opishotic.—Als parva sphenoided, in ichth., the basisphenoid bone.—Als temporalis, in ichth., the problet bone. proötic bone.

of the genus Peperomia.

Alabama (al-a-bā'mā), n. [NL. (Grote, 1895),

(Alabama, the State.] A genus of noctuid moths containing one species, A. argillacea Huebner. It is notorious as a destroyer of the cotton-plant in the southern United States, where its larva is known as the leaf-caterpillar or chenille. Formerly known as Aletia zylima.—Alabama china. See *china. —Alabama shad. See *chad1.

alabandite (al-a-ban'dit), n. See alabandine. alacreatine (al-a-kré'a-tin), n. [L. ala, wing (†), + creatine.] A compound, NH: C(NH₂)NHCH-(CH₃)CO₂H, a combination of cyanamide with a-aminopropionic acid; a-guaninopropionic

adgao.] A Philippine tree, Prema vestua, of the Verbena family. Its bitter leaves and its flowers are used medicinally by the natives. The tree is generally known to Spaniards living in the Philippines by the name of sauce (elder), owing to the resemblance of its flowers to those of Sambucus nigra. In its medicinal qualities it resembles the allied Premna Gaudichaudii of the island of Guam and P. integrifolia of the East Indies and Madagascar. See headach-tree.

alalonga (ä-lä-long'gä), n. [Appar. < L. ala longa, 'long wing.'] Same as long-finned alba-

in Hawaii of a large fern, Phegopteris Hillein Hawaii of a large fern, Phegopteris Hillealang (ä'lang), n. See *alang-alang.
alang-alang (ä'lang-ä'lang), n. [Malay ālangalang-alang (ä'lang-ä'lang), n. [Malay ālangalang-alang (ä'lang-a'lang), n. [Malay ālangalang-alang (a'lang-a'lang), n. [Malay ālangalang-alang (a'lang-a'lang), n. [Malay ālang-alang, a'lang-alang, a

timber-tree of the rutaceous genus Ptelea.
The wood is used in building canoes.

alantic (a-lan'tik), a. [G. alant, elecampane, +-ic.] Obtained from elecampane.—Alantic acid, the hydroxyacid OH.C₁₄H₂₀CO₂H, corresponding to alantolactone. It crystallizes in needles which melt

pane, + -o-ic.] Derived from elecampane.—
Alantoic acid, a colorless compound, C₁₄H₂₀(OH)
COOH, found in the drug elecampane.
alantol (a-lan'tōl), n. [G. *alantol(!), <alant.
Albion ware. See *ware².

alantolactone (a-lan'tō-lak'tōn), n. [G. alant, elecampane, + lactone.] Same as helenin.

Alar membrane, the elongate triangular membrane lying on the anterior edge of a bird's wing and running from wrist to shoulder-joint; the prepatagium.—

Alar septa, in the extinct Tetracoralla, the two prominent lateral septa or vertical plates in the calyx, one on each side, from which the adjoining septa branch pinnately: contrasted with the cardinal and counter septa.

sepia.

Alaria, n. 2. A genus of platypodous gastropod mollusks of the family Aporrhaidæ.

They have a turreted spire, expanded and spinous outer lip, and long apertural canal. Shells of this genus are very abundant in the Jurassic and Cretaceous rocks.

alarm, n.—Still alarm. See still.1 alarm-buoy (a-lärm'boi), n. A buoy provided with a bell or a whistle to make its presence

known at night or in a fog.

Alaska cedar, dab. See *cedar, *dab².

alaskite (a-las'kit), n. 1. See alaskate. In petrog., a name proposed by Spurr (1900) for igneous rocks composed almost wholly of alkalic feldspar and quartz without other alkalic feldspar and quartz without other essential minerals. It is a group-term embracing many granular and porphyritic rocks which have been called granite, rhyolite, haptite, elvan, granutite, eurite, granite, etc. The distinct lava forms corresponding to alaskite in composition are called tordrillite by Spurr. alastor, n. 2. [cap.] A genus of bats from the Upper Eocene phosphorites of France.

Alaunian (a-lâ'ni-an), a. and n. [L. Alauni, Gr. 'Alauvi, a people of Noricum.] I. a. In geol., in the Triassic formation of the Mediterranean province, noting a substage corre-

yeou., in the Triassic formation of the Mediterranean province, noting a substage corresponding to the middle division of the Juvavic stage, which lies just below the Rhætic and above the Carinthian stage. The Juvavic appears to correspond to the lower Rhætic of Germany, and the Alaunian, therefore, is correlated with the lower part of that formation.

II. n. The Alaunian substage.

albacore, n.—Great albacore, the tunny or tuna, Thunnus hynnus.

albahaca (äl-bä-hä'kä), n. [Sp. albahaca, basil, A nameca (ai-oa-na ka), n. [Sp. aioanaca, basil, An. al, the, habaq, pennyroyal.] A name applied in Guam, the Philippines, Peru, and Porto Rico to several aromatic plants of the mint family, especially to Ocimum Basilicum and O. sanctum, which are cultivated for culinary and medicinal purposes. See Ocimum, toolsi and havil toolsi, and basil1.

Albany slip, zone. See *slip, *zone.
albardin (äl-bär-den'), n. [Sp., of Ar. origin.]
A shoreweed, Lygeum Spartum, of southwestern Europe and northern Africa: similar in its use to esparto and sometimes included under that name.

lbata metal. See *metal. Albatrossia (al-ba-tros'i-ä), n. [NL., named for the exploring steamer Albatross, U.S. N.] A genus of grenadiers of the family Macruridæ, cod-like fishes of the deep seas. A. pectoralis

is found in Bering Sea.

albecore, n. See albacore.

Albedo unguium, the lunula of the nails.

albene (al'bēn), n. [L. albus, white, + -ene.]
The substance formed by boiling melam with

water. It is white and insoluble. alberello, n. Same as albarello. Alberini's process. See *process.

albert (al'bert), n. [Named, about 1860, from Prince Albert, consort of Queen Victoria.] A short watch-chain made with a cross-bar de-

name of saico (elder), owing to the resemblance of its flowers to those of Sambucus nigra. In its medicinal qualities it resembles the allied Premna Gaudichaudii of the island of Guam and P. integrifolia of the East Indies and Madagascar. See headachs-tree.

alalonga (ā-lā-long'gā), n. [Appar. < L. ala longa, 'long wing.'] Same as long-finned albacore.

alang-alang (ä'lang-ā'lang), n. [Malay ālang-ālang, alang (ä'lang-ā'lang), n. [Malay ālang-ālang (ā'lang-ā'lang), n. [Malay ālang-ā'lang (ā'lang-ā'lang), n. [Malay ālang-ā'lang), n. [Malay ālang-ā'lang, alang ā'lang-ā'lang ālang ā'lang ālang ālang ālang ālang ālang ālang ālang ālang āl

albinic (al-bin'ik), a. [albin(o) + -ic.] Marked by albinism or absence of pigment.

Two of the sons, apparently, married wives who were 'pure dominants,' i. e., who were entirely free from the recessive (albinic) character. Science, Jan. 9, 1903, p. 75.

albino, n. 4. In Mexico, a person who has one eighth negro and seven eighths Spanish blood; the child of a Morisco woman (who is the daughter of a mulatto mother and a Span-

albirupean (al-bi-rö'pē-an), a. [L. albus, white, +rupes, rock.] Containing white rocks.—Albirupean group, in gool., a series of sand-beds occurring along Chesapeake Bay and regarded by the Maryland geologists as of Lower Cretaceous age.

Albite law, the law of twinning of albite. See albite

albitite (al'bi-tit), n. [albite + -ite².] In petrog., a name proposed by Turner (1896) for granular igneous rocks consisting essentially of albite. Such rocks occur in dikes in the

Sierra Nevada mountains of California.

albitization (al'bi-ti-zā'shon), n. [albite + -ize + -ation.] The process of transforming

-ize + -ation.] The process of transforming into albite; the alteration of some preëxisting mineral, such as lime-soda-feldspar, into albite. Geikie, Text-book of Geol., p. 790.

albiventral (al-bi-ven'tral), a. [L. albus, white, + venter, belly.] Having a white belly or under parts, as is the case with many birds. albot (al'bō), n. [NL., orig. abl., in the phrase in albo, of L. album: see album.] Same as album album.

album.

Albo-carbon burner, a burner provided with a chamber containing solid naphthalene, which, being volatilized by the heat of the gas-fiame, enriches the inflowing gas and thus increases its luminosity.

albocracy (al-bok'ra-si), n.; pl. albocracies (-siz). [L. albus, white, + Gr. -κρατεία, <κρατείν, rule.] Government by white men, that is, by men of European origin. R. N. Cust, Linguistic Essays, p. 303. [Rare.] N. E. D. albodactylous (al-bō-dak'ti-lus), a. [L. albus, white, + Gr. δάκτυλος, finger.] Having white wings. [Rare.] [Rare.]

white, + -ol- + -ene or -ine².] An unctuous substance derived from petroleum: used for

substance derived from petroleum: used for the same purposes as vaseline.

albo-pruinose (al-bō-prô'i-nōs), a. [L. albus, white, + pruina, frost, + -ose.] Covered with a thin white powdery bloom: said of the surface of certain plants, especially the stipes and caps of some pileate fungi.

alboranite (al-bō-ran'īt), n. [Alboran (see def.) + -ite².] In petrog., a name proposed by Becke (1899) for hypersthene-andesite rich in lime, the type occurring in the island of

in lime, the type occurring in the island of Alboran. Loewinson-Lessing considers albo-ranite as essentially a hypersthene-basalt without olivin.

Albright (al'brit), n. One of the 'Albright People,' the name given to the Evangelical Association founded by Jacob Albright. See

Evangelical Association

albronze (al'bronz), n. [al(uminium) + bronze.] An alloy of aluminium with copper and tin or of aluminium with bronze, used for bearings where lightness of weight and durability are equired; aluminium bronze.

Albuginaces (al-bū-ji-nā'sē-ē), n. pl. [NL., \(Albugo (Albugin-) + -acex. \)] A family of phycomycetous fungi typified by the genus Albugo.

albugo, n. 2. [cap.] [NL. (S. F. Gray, 1821).] In mycol., a genus of fungi erroneously called Cystopus (which see).

albulignosine (al'bū-lig'nō-sin), n. [albu(men) + lignose + -ine².] A material obtained by the action on wood of a solution of sodium sulphite boiling under pressure, making the liquid acid, and adding albumen: proposed for

use as a sizing and mordanting agent.

albumeant (al-bū'mē-an), a. [Irreg. < album + -e-an.] Of or pertaining to albums, or the pressing invitations of friends or acquaintances to contribute to their albums. Lamb, Letters, xvii. 156. [Rare.]

Albumen color. See *color.— Albumen dyestuff. Same

as abumen **coor.
albumen-gland (al-bū'men-gland'), n. In certain mollusks, as Helix, a glandular organ of which the thick viscid secretion probably serves

to envelop the eggs.

I dissected one specimen, but was unable to obtain a clear view of either the central nervous system or the reproductive organs. The latter, as usual in this family, were extremely complicated, both the prostate and albumen-gland appearing to be extensively ramified.

Proc. Zool. Soc. London, 1903, I. 257.

albumin, n. The albumins are highly complex organic bodies which enter prominently into the composition of all animal and vegetable tissues and form the groundwork, so to speak, of every living cell. They are the most important food-stuffs of all classes of animal life, and can be elaborated by the chlorophyl-bearing plants from such simple substances as water, carbon dloxid, and certain nitrates or ammonium saits. All albumins contain carbon, hydrogen, oxygen, nitrogen, and sulphur in definite proportions which vary but little in the different members of the group: one albumin, which is found in

the thyroid, also contains iodine. Other elements are not met with in albumins proper, but are encountered in certain compound albumins, in which an albuminous radical is united with other more or less complex groups. Thus more than the control of the proper and all albumins also contain variable amounts of mineral sails in firm combination. Their molecular size is very large. For crystallized egg-albumin Hofmeister established the formula Cagaligan (SagVorg, which corresponds to a molecular weight of 5.578. The proportamins and histons apparently have the smallest molecules, while the comparently have the smallest molecules, while the comparently in the comparent of the control of oxylemoglobin has thus been determined as 14,800. A few, however, can be obtained in crystalline form, such as egg-albumin, serum-albumin, oxylemoglobin, and certain vegetable albumins, as edestin, etc. The so-called Bence Jones albumin, which has been met with in the comparent of the control of the cont

the various intermediary digestive products, including the abuminates, abumoses, and peptones.—Bence Jones albumin, formerly known as the Bence Jone salbumine, formerly known as the Bence Jone salbumine. Shown by Magnus Levy and Simon to be a true albumin. Its presence in the urine seems to be invariably associated with a fatal disease known as multiple myelons.—Circulating albumin, the albumin which exists in the fluids of the body and not in the solid tissues.—Ferrier's albumin process. See *process.—Iodized albumin, in photog, albumin containing an iodide.—Martin's albumin negative process. See *process.—Mayall's albumin negative process. See *process.—Totic albumin, a poisonous substance supposedly of albuminous character; for example, the specific poison produced by the diphtheria organism. Also called toxal-bumin. the various intermediary digestive products, including

albuminate, n.— Weyl's albuminate, an insoluble modification of a globulin which results from the latter on prolonged exposure to water.

albuminic (al bū min ik), a. Pertaining to or derived from albumin: as, albuminic acid. According to Schmiedeberg, ferratin is a ferrialbuminic acid.

albuminic acid.

albuminimeter, n.—Esbach's albuminimeter, an apparatus for the estimation of albumin in urine. The tube is filled with urine to the mark u, and with the reagent (which consists of an aqueous solution of citric acid 2 per cent. and picric acid 1 per cent.) to the mark r. After thorough mixing the tube is set aside for twenty-four hours. The volume of the precipitate, as read from the graduations, indicates the parts of albumin per thousand of urine.

cates the parts of albumin per thousand of urine.

albuminize, v. t.—Albuminized collodion. See *collodion.

albuminoid, n. The albuminoids represent a class of albumins which, in contradistinction to the albumins proper, are essential components of the intercellular structures and result from the albumins, in the narrower sense of the term, through the activity of cellular elements. As a class they do not contain all the typical radicals of the pure albumins, and for this reason, nodoubt, their nutritive value is distinctly less than that of the albumins proper. They are largely found in the supporting tissues of the animal body, namely, the connective tissue, cartilage, and bone. The group comprises collagen (gelatin, elastin, spongin, fibroin, albumoid, etc. Also called glutinoid.

albuminometer (al-bū-mi-nom'e-tri),

n. Same as albuminimeter.

albuminometry (al-bū-mi-nom'e-tri),

albuminometry (al-bū-mi-nom'e-tri), The measurement of the amount

of albumin in any fluid, such as the

albuminose, a. II. n. Same as *albumose. albuminuria, n.— Cyclic albuminuria, a condition in which albumin appears in the urine for a short time at about the same period each day.

albuminuric, a. II. n. One who suffers from albuminuria.

It was found that, classing all albuminuries in one group-the percentage of mortality was decidedly increased. Med. Record, Feb. 14, 1908.

albumoid (al'bū-moid), n. [album(en) + -oid.]
An albuminoid found in the cartilage of fullgrown animals. It is insoluble in all neutral solvents and dissolves in acids and alkalis only with great diffi-

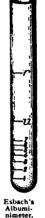
albumoscope (al-bū'mō-skōp), n. [album(ine) + Gr. σκοπεῖν, view.] A glass instrument for detecting and estimating the quantity of albumin in urine. The urine is made to float on the surface of strong nitric acid poured gently into a funnel-tube. The albumin appears at the zone of con-tact of the two liquids.

tact of the two liquids.

albumose (al'bū-mōs), n. [albumose (al'bū-mōs), n. [albumose]. In effect short for *albuminose.] A name of derived albumins (see *albumin) which result from the albuminoids and the albuminoids and the albuminoids of the name of the

the albuminous radicals of the nucleo-albumins and -proteids, through the action of promins and -proteids, through the action of proteolytic ferments, or on decomposition by means of acids or alkalis. Their formation is preceded by the denaturization of the albuminous molecule and, in the case of the use of acids or alkalis, by the formation of acid albumins and alkaline albuminates respectively. During the process of digestion primary albumoses first result, which are subsequently transformed intosecondary ordenteroslbumoses, and these in turn into peptones and simpler bodies. In their quantitative composition the albumoses do not differ materially from the original albumins, but their molecular weight is lower. As a result, no doubt they are more readily soluble, and as a class not altogether indiffusible through animal membrane or vegetable parchment. They can be separated from one another by fractional precipitation by means of certain neutral salts, notably ammonium sulphate. The albumoses which are derived from the albumins proper, in contradistinction to those resulting from the albumins proper, in contradistinction to those resulting from the albumins proper, in contradistinction to those resulting from the albumoses of albumoses.—Toxic albumose, an albumose with toxic properties. ith toxic properties.

albumosuria (al"bū-mō-sū'ri-ä), n. [albumose



Albumoscope.

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Alburnus (al-ber'nus), n. [NL.: see alburn.]
A genus of small minnows, known as bleaks, found in the waters of Europe. A. alburnus is the common bleak.

the common bleak.

albus (äl'bös), n. [G., < L. albus, white.] A
German copper coin equivalent to 12 hellers at
Cassel and Cologne.

alcaldia (äl'käl-dē'ä), n. [Sp.] 1. The office or jurisdiction of an alcalde.—2. The
building where an alcalde transacts the business of his office. ness of his office.

alcapton, alcaptonuria. See *alkapton, *al-

Brazil, the name of the native licorice, Periandra Mediterranea, the root of which is used in medicine, like that of the common licorice.

in medicine, like that of the common licorice.

alcelaphine (al-sel'a-fin), a. [NL. alcelaphinus, < Alcelaphus, a genus of antelopes.]

Relating to the antilopine genus Alcelaphus, or to this with related genera considered as forming a division of the family Bovidæ. Flower and Lydekker, Mammals, p. 334.

Alchemilla (al-kē-mil'ā), n. [NL.] A genus of hardy perennial herbs of the family Rosacææ, allied to Sanguisorba. The flowers are corymbose and inconspicuous. They are suitable for rockeries and front rows of borders, although little grown. There are about 35 species, natives of the Old and New Worlds, most abundant between Mexico and Chile.

Alchornea (al-kôr'nē-ā), n. [NL. (Swartz, 1788), named in memory of Stanesby Alchorne, an English botanist and chemist who died about 1799.] A genus of dicotyledonous plants

about 1799.] A genus of dicotyledonous plants belonging to the family Euphorbiaces. They are trees or ahrubs with alternate leaves and small flowers clustered on simple or panicled terminal spikes or racemes. About 50 species are known, widely distributed in the warmer parts of both hemispheres. For A. ilici-

folia, see Collebogyne. Alcidea (al-sid'ē-š), n. [NL., < Gr. άλκη, elk. + eloog, resemblance.] eldor, resemblance.] A genus of deep-sea sculpins of the family Cottidæ. A. thoburni is found off the coast of California.

alcogel (al'kō-jel), n. [alco(hol) + gel(atin).] Silicic acid separated in gelatinous condition

Since acid separated in genatinous condition by means of alcohol.

alcohol, n.—Acetone alcohol. Same as *acetol.—Alcohol lamp. See *lamp.—Pyroracemic alcohol. Same as *acetol.—Tolane alcohol, the name given to a substance of somewhat uncertain composition, said to be formed by the action of ethyl alcohol on benzoin.—Whey alcohol, an alcoholic liquor prepared from milk, after the separation of the fat and casein, by fermentation of the lettere or milk-uner.

the lactore or milk-sugar.

alcoholase (al'kō-hol-ās"), n. A ferment of vegetable origin which supposedly causes alco-holic fermentation during anaërobic respira-

alcoholic, a. II. n. 1. One who indulges to excess in alcoholic beverages, or who is suffering from the systemic effects of alcohol.-A remedy the chief therapeutic value of which depends upon the presence of alcohol.

The unadministered alcoholics are catalogued by genera on cards and located so that any jar can be found at once, Smithsonian Report, 1900, p. 38.

Smithsonian Report, 1900, p. 38.

alcoholize, v. t.—Alcoholized paper, in photog, paper prepared with an alcoholic solution containing milk-sugar, zinc lodide, and zinc bromide. The paper is atterward sensitized with a solution of silver accetonitrate acidified with glacial acetic acid.

alcohol-motor (al'kō-hol-mō'tor), n. An internal-combustion motor in which alcohol variations are alcohol-motorial.

por is burned explosively; an alcohol-engine; an engine which uses alcohol as fuel for its source of heat.

alcornoco (äl-kôr-nō'kō), n. Same as alcor-

the more rapid retrogressive erosion of one part than of another.—Alcove system, a method of arranging books in a library, or of exhibiting specimens in a museum, in which each subject and each class has an alcove or series of alcoves to itself. alcove. n.

of alcoves to itself.

Alcyonacea (al'si-ō-nā'sō-ā), n. pl. [NL., < Alcyon(ium) + -acea.] An order or suborder of Alcyonaria in which the skeleton consists of loose spicules embedded in a well-developed canaliferous conenchyma without axial skeletal rod. The group contains the families Xeniidæ, Alcyonidæ, and Nephthyidæ. Nearly equivalent to Alcuoniaceæ.

alcyonacean (al'si-ō-nā'sē-an), a. and n. I.
a. Of, pertaining to, or resembling the Alcyonacea.

II. n. One of the Alcyonacea.

Alcyonaria, n. pl. 2. A subclass of Anthozoa, containing the orders Stolonifera, Alcyonacea, seudaxonia. Axifera, Stelechotokea, and Conothecalia.

+ Gr. οὐρον, urine.] In pathol., the presence aldane (al'dān), n. [ald(ehyde) + -ane.] A of albumose in the excreted urine. pound formed by the condensation of two molecules of an aldehyde with the loss of water.

aldea (äl-dā'ā), n. [Pg., < Ar. al-dai'a, a farm or village.] A villa or country-seat. Yule and

aldea (al-ua a), n. [1-a), or village.] A villa or country-seat. Yule and Burnell. [East Indies.] aldeament (al-dē'a-ment), n. [Brazilian Pg. aldeamento, < Pg. aldear, lodge in villages, < aldéa, aldeia, a village: see *aldea.] In Brazil, and in which natives who have suba settlement in which natives who have submitted to the government, or to missionary influences, are gathered. See reduction (e). F. Roas.

While the Government and the missions have succeeded with great difficulty with others, as for the Bororo, with their hostile indisposition to link their interests with those of the colonists and to settle in permanent aldeaments, the pian to interest them in the cultivation of the soil did not succeed.

Smithsonian Report, 1896, pp. 574, 575.

Aldebaran (äl'de-bà-rän' or al-deb'a-ran), n. [Ar., the follower (i. e. of the Pleiades).] A chrome star of magnitude 1.0; a Tauri.

chrome star of magnitude 1.0; a Tauri.

Aldebaranian (äl-de-bä-rä'ni-an), a. and n.

I, a. Noting stars which have a spectrum similar to that of Aldebaran. They have fluted spectra in which a series of calcium lines, sometimes called protocalcium, together with are lines of iron calcium manganese (protostrontium) and hydrogen, are predominant. The flutings are incipient. The blue line of calcium, \(\lambda\) 1 4227, is strongly marked.

II. n. An Aldebaranian star.

Idabardassa (ald\(\lambda\) 5 id\(\lambda\) 5 id\(\lambda\) 1 faltebude +

aldehydase (al'de-hī-dās'), n. [aldehyde + -ase.] A ferment which oxidizes an aldehyde to its corresponding acid.

aldehyde, n.—Crotonic aldehyde, a volatile oil with a disagreeable, penetrating odor, having the formula CH₃CH:CHCHO, and prepared by the distillation of aldol. It boils at 104° C.—Formic aldehyde. See *formic.

aldehydene (al'dē-hī-dēn), n. [aldehyde + eme.] 1. Aname formerly applied to the base formed by heating aldehyde ammonia, now known to be trimethylpyridine.—2. A name given by Ladenburg to the bases formed from aldehydes and hydrochlorids of aromatic orallely. thodiamines.

thodiamines.

alder¹, n.—Alder grab. See *grab¹.—California alder, Alnus rhombifolia.—Dwarf alder. (a) The alder-leafed buckthorn, Rhamnus almifolia. (b) A shrub of the genus Fothergilla, of the southeastern United States.—Green alder, Alnus Alnobetula, a shrub of the northern part of both hemispheres and of the Alleghanies farther south.—Hoary alder, the speckled alder, Alnus sincetana.—Mountain alder. (a) The green alder, Alnus nana.—Mountain alder. (a) The green alder, Alnus sincetana.—Mountain alder. (a) The green alder, Alnus Almobatula. (b) Alnus rhombifolia, of the western United States. (c) The striped maple, Acer Pennsylvanicum. [North Carolina.—Narrow-leafed alder, an arborescent species, Alnus tanuffolia, of western North America. The bark furnished the Indians an orange dye.—Red alder, a northwestern species, Alnus Oregona.—Seaside alder, Alnus maritima, found in wet ground in Delaware and Maryland, near the coast, and also in Indian Territory.—Spiked alder, the Miltonian Alnus rhombifolia or the more northern red alder, Alnus Oregona.

alder-blight (âl'dèr-blit'), n. A plant-louse,

alder-blight (âl'der-blit'), n. A plant-louse, Schizoneura tessellata. It occurs in great numbers on the under side of the branches of the alder, and secretes large quantities of down-like wax. It also secretes much honeydew, which is attractive to honeyloving insects and to the resting-spores of certain fungi. alder-fly (ål'der-fli'), n. A name given by

fishermen to a certain neuropterous insect of the family Sialidæ, used as, or imitated for use as, bait: so named because it occurs

along alder-lined streams in England.

aldermanlike (al'der-man-lik), a. Like an alderman; characteristic of an alderman; proper or becoming to an alderman; aldermanly.

manly.

Alderney (âl'der-ni), n. [The name of one of the Channel Islands.] A breed of small-sized cattle originating in Alderney, noted for the abundance and richness of their milk. They are of light build, with small horns, and are generally of a fawn color with blackish legs.

aldime (al'dim), n. [ald(chyde) + -ime.] A compound, having the general formula RCH: NH, which may be considered as derived from ammonia and an aldehyde by the loss of water. The aldimes are stable only in the form of

saldine² (al'din), n. [ald(ehyde) + $-ine^2$.] A name given to those pyrazines ($C_nH_{2n-4}N_2$) which may be formed by the condensation of

which may be formed by the contensation of two molecules of an a-aminoaldehyde.

aldo-alcohol (al'dō-al'kō-hol), n. [ald(ehyde) + -o- + alcohol.] An organic compound containing both an aldehyde (CHO) and a hydroxyl (OH) group.

aldohexose (al-dō-hek'sōs), n. [ald(ehyde) + -o- + Gr. &, six, + -ose.] A general name

given to those sugars which have the composigiven to those sugars which have the composi-tion $C_6H_{12}O_6$ and contain an aldehyde group. aldol (al'dol), n. [ald(ehyde) + -ol.] A com-pound, $CH_3CHOHCH_2CHO$, formed by the condensation of acetaldehyde by means of zinc chlorid. The official name is butanalol-3.— Aldol condensation, a condensation of two or more aldehyde molecules in which an aldehyde alcohol is

aldose (al'dōs), n. [ald(ehyde) + -ose.] A name given to any monosaccharide which is an aldehyde to distinguish it from a ketose, which

contains a ketone-group.

aldoxime (al-dok'sim), n. [ald(ehyde) + oxime.]

A compound, having the general formula R— CH:NOH, which is formed by the action of hydroxylamine on an aldehyde. Also aldoxim.

Aldrich deep. See *deep.
Aldrovandia (al-drō-van'di-\(\bar{a}\)), n. [NL., \(\lambda\)
Aldrovandia (1522-1605), an Italian naturalist.]
A genus of deep-sea fishes of the family Halo-

A genus of deep-sea usines of the family Hato-saurids. Also called Halosauropsis.

alecithal (a-les'i-thal), a. [Gr. a- priv. + λέκαθος, the yolk of an egg.] In embryol., provided with very little and uniformly distributed vided with very little and uniformly distributed food-yolk: a term applied to certain eggs, such as those of the sponges, sea-urchins, etc.

Alectis (a-lek'tis), n. [NL., said to be < Gr. ἀλέκτωρ, a cock.] A genus of Carangidæ remarkable for its long threadlike fin-rays: hence known as the cobbler-fish.

alectorioid (a-lek-tō'ri-oid), a. [alectoria + -oid.] Resembling the thallus of the lichen Alectoria.

Alectoria.

Alectryonia (a-lek-tri-ō'ni-ā), n. [NL., ζ Gr. αλεκτρυών, a cock.] A genus of ovsters in which the left valve is attached by clasping shelly processes and has strong divaricate folds on the upper surface. The genus is living in existing seas, but was most abundant during Jurassic and Creta-

ale-haunter (āl'hän-tèr), n. [ale, 2, + haunter.]

A frequenter of ale-houses or ale-drinkings. Heylin. [Rare.] alembical (g-lem'bik-al), a. [alembic + -al.] Of or pertaining to, or of the nature of, an alembic.

—Alembical lamp, a lamp having a capital or head like an alembic, used to arrest the smoke and unconsumed vapors and return them to the oil-reservoir. It was invented by Besnard.

Aleochara (al-ē-ok'a-rā), n. [NL. (Graven-horst, 1802), < Gr. αλεός, equiv. to αλεεινός, open norse, 1002), $\forall r.$ date, equily, to deteroor, open to the sun, warm, $+ \chi ai\rho e v$, rejoice.] A genus of rove-beetles, of the family Staphylinide, typical of the tribe Aleocharini. It has the antenne 10-jointed, tarsi 5-jointed, head retracted, not narrowed, and the palpi with accessory terminal joint. It is a genus of general distribution, comprising nearly 200 species.

Aleocharini (al "ē-ō-ka-rī'nī), n. pl. Alsocharini (al' e-o-ka-ri m), n. pl. [NL., Alarge tribe of small rove-beetles of the family Staphylinidæ. They have the antenne inserted upon the front, the prothoracic spiracles visible, the front come large, and the fourth joint of the maxillary palpi distinct. The tribe comprises more than 30 North American genera.

than συ North American genera.

Aleposomus (a-lep-ō-sō'mus), n. [NL., ⟨ Gr. ά- priv. + λεπίς, scale, + σῶμα, body.] A genus of deep-sea fishes of the Atlantic, belonging to the family Alepocephalidæ.

Leppo boil, button, evil. See ulcer.—Aleppo gall.

See *gaus.
alerta (ä-lār'tä), n. [Sp. See alert.] 1. A call repeated by sentinels at regular intervals to indicate their watchfulness. -2. An alarm by a sentinel, causing the guard to assemble under arms.

Alethopteris (al-ē-thop'te-ris), n. [NL. (Sternberg, 1825), ζ Gr. ἀληθής, true, + πτερίς, fern.] A genus of fossil plants usually classed with the ferns and made the type of a suborder the ferns and made the type of a suborder Alethopterides. It is characterized by large bipinnate to tripinnate fronds, the thick pinnules being inserted on the rachis by a broad, decurrent base, sometimes confluent. The fruit is unknown, but the recent discovery of seeds intimately associated with the fronds renders it probable that they were borne by this plant, in which case it will be necessary to remove it from the Pteridophytes and place it in the class Pteridosperms of Oliver and Scott. (See *Pteridosperms.) The genus occurs chiefly in the productive coal-measures of both hemispheres.

alethopteroid (al-ē-thop'te-roid), a. [Ale-thopteris + -oid.] Resembling or pertaining to the fossil plant genus Alethopteris.

alethorama (al-e-thō-rā'mā), n. [Gr. ἀληθής, true, + δραμα, what is seen, a sight.] A form of cinematograph devised by Mortier and Chéri-Rousseau in which the film, instead of having the usual interrupted motion, moves continuously, and the screen, instead of being alternately light and dark, is illuminated in a permanent manner by the images. The apparatus consists of a wheel of which the peripheral teeth ex-

gage the perforations of the film and carry it in front of gage the perforations of the film and carry it in front of a brilliant beam of light from an electric arc. The transparent film permits the light to pass through, and the picture is reflected from a mirror behind to another at one side, then through the first lens of the projection-objective to another mirror or to a reflecting prism, and finally out of the second lens to the screen. The instrument may also be used as a registering apparatus if a special shutter is provided. This is done by placing within the principal drum a smaller one which shall have silts one third as numerous as the compartments of the outer drum and shall revolve three times as fast.

aletophyte (a-lē'tō-fīt), n. [Gr. $\dot{a}\lambda\dot{\eta}\tau m$, vagabond + $\phi v\tau\dot{\phi}v$, plant.] A ruderal plant, or one sporadically introduced. Aletophytes are regarded by Pound and Clements, the authors of

garded by Pound and Clements, the authors of the term, as a subclass of mesophytes.

aleurodiform (al-ū-rō'di-fôrm), a. In entom., resembling one of the insects of the genus Aleurodes or family Aleurodidæ. Jour. Roy. Micros. Soc., April, 1904.

aleuronate (a-lū'rō-nāt), n. [Irreg. < Gr. āλευ-ρον, flour, + -ate¹.] Albuminous material of vegetable origin. The so-called aleuronate flour has been used as a substitute for ordinary flour in making diabetic bread. It contains a low precentage of starch.

Our bread was partly carefully dried wheaten biscuits, and partly aleuronats bread, which I had caused to be made of wheat flour mixed with about 30 per cent. of aleuronats flour (vegetable albumen).

Nansen, Farthest North, II. 126.

aleuroscope (a-lū'rō-skop), n. [Gr. ἀλευρον, flour, + σκοπείν, view.] An instrument, invented by Sellnick, designed, like the aleurometer of Boland, to indicate the fitness of flour for making bread.

aleutite (a-lū'tīt), n. [Aleut(ian) (islands)

-ite².] In petrog., a name used by Spurr (1900) for andesites characterized by andesin and labradorite feldspars. The corresponding granular rocks are called belugite by Spurr.

A-level (a'lev-el), n. A leveling instrument used for grading earth-work, leveling ditches, used for grading earth-work, leveling ditches, etc. It consists of a light wooden frame of three pieces fastened together like the capital letter "A" with a plumb-line suspended from the vertex. To prepare it for use, the two feet are first brought carefully to the same level and the position of the plumb-line is marked on the horizontal crosspiece. In use the two feet may thus be brought level by moving one up or down till the plumb-line coincides with the mark on the crosspiece. The two feet of the inclined pieces are frequently placed at some convenient distance apart, as three yards, ten feet, a rod; and the instrument may then also be used for stepping off horizontal distances as well as leveling.

Blavander: [Alexander:

see def. and cf. lynch, v.] To treat with harshness and severity, in the manner of Sir Jerome Alexander, an Irish judge in the seventeenth century who was noted for his harsh and merciless decisions, especially in regard to Presbyterians and other nonconformists; by implication, to hang. [Rare.]

I thank God the robbers in this province are suppressed. I hear not of one these three weeks. Many I have taken and keep in jail against the assizes, where I hope they will be alexandered.

arl of Orrery, Letter to Ormonde, April 18, 1866 (Trans. [Roy. Hist. Soc., II. 124).

alexanders, n.—Golden alexanders, a yellow-flow-ered umbelliferous herbof the northeastern United States, Thaspium trifoliatum aureum. The name is less properly applied to Zizia aurea.—Purple alexanders, Thaspium trifoliatum, a plant similar to the golden alexanders, but with purple flowers.

alexandra (al-eg-zan'drä), n. In angling, an artificial fly with silver body and peacock harl.

Alexandra car. See *carl.

Alexandrian clover. See Trifolium and

See Trifolium and

alexia, n.—Motor alexia, a form of aphasia in which the patient cannot read aloud, though understanding the printed page.—Optical, sensory, or visual alexia, loss of ability to comprehend the written or printed page.

Alexian (a-lek'si-an), a. and n. I. a. Of or pertaining to St. Alexius or Alexis, or to the

II. n. A member of the religious congrega-tion of Alexian brothers, or Cellites. They are an association of laymen formed about the beginning of the fourteenth century to take charge of the sick and infirm: called *Alexians* from St. Alexius, their patron

saint.
alexin (a-lek'sin), n. [Irreg. < Gr. ἀλέξειν, ward off, protect, + -in².] A term originally introduced by Buchner to designate certain substances present in normal blood-serum which are capable of destroying various foreign cellular elements, such as bacteria, red bloodcorpuscles, etc. In the literature of immunity, this term has been retained to a certain extent, by French writers especially, to designate that component of the serum which renders possible the action of the various specific immune bodies (amboceptors) and which is destroyed by heating to a temperature of about 55°C. or on prolonged standing. In this sense its meaning is the

same as that of *complement, 8, a term introduced by Ehrlich and now the one most commonly used. Such complemental action is noted in the case of the hemolysins, the bacteriolysins, and the various cytotoxins. Same as *addiment and *cytase.

alexocyte (a-lek'sō-sīt), n. [Gr. ἀλέξειν, ward off, protect, + κίνος, a hollow (a cell).] A term introduced by Hankin to designate those

leucocytes which supposedly furnish alexins. **Alexurus** (a-lek-sū'rus), n. [NL., < (†) Gr.

αλέξειν, defend, + ουρά, tail.] A genus of gobies found in Mexico. A. armiger is found at a Paz.

alezan (al-e-zan'), n. [F. and OF. alezan, < Sp. alazan, of undetermined (Ar. ?) origin.] sorrel horse. [Rare.]

The snow-white steed of Odo; the alezan of Fitz-osborne.

Buliver, Harold. N. E. D.

alfa, n. A simplified spelling of alpha.
alfabet, n. A simplified spelling of alphabet.

alfalfa, n.—Turkestan alfalfa, a variety of alfalfa of great value in the arid region of central Asia. This and the oasis alfalfa are likely to be valuable in the dry parts of the western United States, where irrigation is impracticable.—Oasis alfalfa, a drought-resisting variety of the common alfalfa, introduced into the western United States from Tunis

Alfenid metal. See *metal.

Alfenid metal. See *metal.
alferfemphyric (al*fer-fem-fir'ik), a. [alfer(ric) + fem(ic) + (por) phyr(it)ic.] In petrog., noting a porphyry containing phenocrysts of both alferric silicates (hornblende, augite, biotite) and the simpler ferric or ferromagnesian minerals (hypersthene, diopside, olivin): proposed by Cross, Iddings, Pirsson, and Washington (1902) in their quantitative classification of igneous rocks (which see, under *rock).

alferphyric (al-fer-fir'ik), a. [alfer(ric) + (por)phyr(it)ic.] In petrog., noting a porphyry containing phenocrysts of an aluminous ferromagnesian (alferric) mineral. See quantitative classification of igneous rocks, under *rock.

alferrie (al-fer'ik), a. [al(uminous) + ferr(omagnesian) + -ic.] Pertaining to, belonging
to or having the characteristics of the group of aluminous, ferromagnesian, and calcie silicates, rock-making minerals, such as augite, hornblende, and biotite. See quantitative classification of igneous rocks, under *rock.

classification of igneous rocks, under *rock.

alfilerilla, n.—Musky alfilerilla, a weed, Brodium moschatum, which invades pasture-grounds from California to Arizona. It has a limited forage value. Also called ground-needle and musky heron's-bill.

alfonsin (al-fon'sin), n. [Pg. alfonsim, a fish so named, also a silver coin, < Alfonso, a royal name.] Any species of fish of the genus Beryx.

alforjat (äl-fôr'hä), n. [Sp., perhaps < Ar. al-khorj: al, the, + khorj, store, supply.] A saddle-bag; knapsack; wallet. [Spanish-American.] American.]

American. J. alfridaria, prob. of Ar. origin; perhaps \(Ar. al, the, + fariydah (farida), a fixed and defined part, \(farada, he defined, decreed, etc. \) In astrol. the planet supposed to rule any given septennial period of human life.

alg (alg), n. [= G. alge, < L. alga: see alga.]

A seaweed; an alga.

alga, n.—Boring alga, one of several of the alga which have the power of penetrating bivalve-shells, corals, etc. lgal, a.—Algal fungus, any fungus which shows close relations to the alge and is supposed to be derived from them, as the Phyconnucetes.

algalia (äl-gä'lē-ä), n. [Colonial Sp. (Sp. algalia, civet, alluding to the odor of the seeds.]
The abelmosk, Abelmoschus Abelmoschus, a shrub cultivated for its flowers and seeds, which have a strong odor of musk. See Abelmoschus, abelmosk, amber-seed, and muskmal-

Algansea (al-gan'sē-ä), n. [NL.] A genus of large chubs, of the family Cyprinidæ, found in

algebra, n.—Double algebra. See ★double.—Universal algebra. (a) That calculus whose general principles are the general definitions which hold for any process of addition and others which hold for any process of multiplication. (b) Algebra of multiple units. Sylvester.

of multiplication. (b) algebraic addition. See *addition.

—Algebraic configuration, the aggregate of rational functions of x and y, where y and x are connected by an algebraic equation. —Algebraic magnitude. See *magnitude. —Algebraic surface. See *urface.

algebraization, algebrization (al"je-brā-i-zā'shon, al'je-bri-zā shon), n. [algebraize, -brize, + -ation.] Algebraic calculation; reduction of a calculation or problem to algebraic form. Nature, LXVII. 203.

algedonic (al-jē-oral-gē-don'ik), a. and n. [NL. *algedonicus < Gr. ἀλγος, pain + ήδονή, pleasure.] I. a. In psychol. and esthetics, relating

to the affections of pleasantness and unpleasantness; pertaining to pleasure and pain.

I shall venture occasionally to use the word algedonic as an adjective to cover the ground of pain and pleasure.

Marshall, Pain, Pleasure and Æsthetics, p. 9. II. n. pl. In psychol. and esthetics, the doc-

trine of affection; the science of pleasure and pain.

It would be well if English usage authorized the employment of the word algedonics to signify the science of pain and pleasure.

Marshall, Pain, Pleasure and Æsthetics, p. 9.

Algerian fir. See *fir.
Alger metal. See *metal.
algesia (al-jē'si-ä), n. [Gr. άλγησις, sense of pain, < άλγεῖν, feel pain. Cf. analgesia.] Capacity for pain; pain sensitivity; sensitiveness to

pan.

algesimeter, algesimetric (al-jē-sim'e-ter, al-jē-si-met'rik). See *algometer, *algometric.

algicide (al' ji-sid), n. [NL., < alga + L.

-cida, < cædere, kill.] Any substance, as copper sulphate, which has the property of destroying algæ. Science, XX. 805.

Algid fever, a form of pernicious malarial fever marked by severe chills.

algin, algine (al'jin), n. [alga + -in², -ine².] A mucilaginous substance obtained from certain algæ, Laminaria stenophylla and L. digitain algæ, Laminaria stenophylla and L. digitala. It slightly resembles gelatin, but differs from that in not coagulating to a jelly and in not being precipitated by tannin, from albumin in not coagulating by heat, and from gum arabic in being precipitated by mineral acids and several organic acids. Insoluble algin is a nitrogenous acid, alginic acid. This forms soluble agin is a nitrogenous acid, alginic acid. This forms soluble salts with the most part insoluble in water. The solutions of algin are very viscid. It has 14 times the viscidity of starch and 37 times that of gum arabic. It may be used as a thickener and for fixing iron and aluminium mordants in calico-printing, as a waterproof dressing for cloth, and for emulsifying oils and clarifying wines and spirits. It may be obtained in thin transparent sheets, forming a substitute for parchment paper, gutta-percha, or gelatin; and tute for parchment paper, gutta-percha, or gelatin; and it dries up to a horny substance which may be turned and polished like ivory or the ivory-nut.

alginate (al'ji-nāt), n. [algin(ic) + -atc.] In chem., a salt of alginic acid.

chem., a sait of alginic acid.

algine, n. See *algin.

alginic (al-jin'ik), a. [algin + -ic.] In chem.,

of or pertaining to algin.—Alginic acid, the insoluble form of algin freed from the basic elements with
which it produces saits, the alginates.

algioglandular (al'ji-ō-glan'dū-lär), a. [Irreg. Gr. ἀλγος (gen. ἀλγος), pain, + E. glandular.] Relating to glandular action as the
result of painful stimulation.

algiometabolic (al'ji-ō-met-a-bol'ik), a. [Irreg. < Gr. ἀλγος, pain, + E. metabolic.] Relating to metabolic changes as the result of painful stimulation.

painful stimulation.

algiomotor (al*ji-ō-mō'tor), a. [Irreg. ⟨ Gr. a'γος, pain, + E. motor.] Relating to a motor effect, as the outcome of painful stimulation.

algiomuscular (al*ji-ō-mus'kū-lär), a. [Irreg. ⟨ Gr. aλγος, pain, + E. muscular.] Relating to muscular action as the result of painful stimulation.

ful stimulation.

algiovascular (al'ji-ō-vas'kū-lär), a. [Irreg. (Gr. ἀλγος, pain, + E. vascular.] Relating to vascular changes as the result of painful stimulation.

algivorous (al-jiv'ō-rus), a. [L. alga, a sea-weed, + vorare, eat.] Feeding upon sea-weeds: said of some fishes and of the Galápagos lizard, Amblyrhynchus.

Algol (al'gol or al-gol'), n. [Ar., 'the demon.'] Algol (al'gol or al-gol'), n. [Ar., 'the demon.']
A pale star varying in magnitude from 2.3 to
4.0 in a period of 2.89 days; ß Persei.—Algol
variable, a star which remains most of the time constant in brightness, but which at regular intervals suffers
a comparatively sudden diminution of its light, due to
the interposition of one of the members of a binary pair
between the other member and the observer. Often
called eclipse variable.

algometer (al-gom'e-ter), n. [Gr. å\)oc, pain, + $\mu \epsilon r \rho \sigma v$, measure.] An instrument used in psychophysical determinations of the stimulus limen and differential limen of cutaneous or muscular pain. Also algesimeter.

The pressure algometer consists essentially of a strong spring, by means of which a rubber disc or point is pressed against the surface to be tested.

Scripture, New Psychol., p. 303.

algometric (al-gō-met'rik), a. In psychophys.,

algometric (al-gō-met'rik). a. In psychophys., pertaining to the use of the algometer or to the measurement of sensitivity to pain. Also algesimetric. G. S. Hall, Adolescence, II. 4. algometry (al-gom'e-tri), n. [Gr. $\dot{a}\lambda \gamma \sigma$, pain, $+ -\mu \epsilon \tau \rho i a$. $(\mu \dot{\epsilon} \tau \rho \sigma v)$, a measure.] The measurement of sensitivity to pain. Also algesimetry. Algonkian, Algonquian (al-gon'ki-an), a. [Algonk(in) + -ian.] 1. Same as Algonkin.—2.

Specifically, in geol., applied to the Precambrian alimentive (ar-i-men'tiv), a. [aliment + -ive.] rocks which are either themselves sedimentary Relating or pertaining to food or to the desire or, if igneous, are later than known sediments. Specifically, in geol., applied to the Precambrian rocks which are either themselves sedimentary or, if igneous, are later than known sediments.

Algonkian period, a subdivision of Precambrian time, as used by the United States Geological Survey, immediately preceding the Cambrian. It in turn is preceded by the Archean in a restricted sense. It is equivalent to the latter part of the Archean, in the broad sense of that term used by many authors: approximately to the Archeasoic of J. D. Dana or to the Agnotozic of R. D. Irving. Under the Algonkian are placed all those Precambrian rocks which are sedimentary or, if igneous, are later than recognizable sediments.

algophilist (al-gof'i-list), n. [algophily + -ist.]
One who takes a morbid pleasure in the con-Une wno takes a morbid pleasure in the contemplation of mental or physical pain in others or in himself. Alien. and Neurol., May, 1903. algophily (al-gof'i-li), n. [Gr. ἀλγος, pain, +-φιλία, ⟨φιλείν, love.] Love of pain as felt by others (active algophily) or as experienced in one's own person (passive algophily). Alien. and Neurol., May, 1903.

algorism, n.— Isobaric algorism, the process of forming the expression for the sum of the products of m factors, each being the same function of m integers whose sum is p.

algraphy (al'gra-fi), n. [Irreg. < al(uminium) + Gr. -γραφία, < γράφειν, write.] The art of printing from an aluminium plate to which a design in hardened oily ink has been transferred. The portions of the plate which are not covered by the lines of the design imbibe from a damping-roller water which resists where it is not needed the deposit of oily ink made by a second roller. The lines of the design accept the ink, which can then be neatly trans-ferred to paper by impression. See the extract.

Successful work, especially in colour, has also been produced lately by algraphy—a process in which aluminum takes the place of the stone.

Encyc. Brit., XXVIII. 266.

alhambra (al-ham'brä), n. A counterpane or bedquilt of coarse texture, woven with colored

threads and in Jacquard designs.

al-het (äl-chet'), n. [Heb. 'al het, 'for the sin.'] The Jewish 'longer confession of sin': so called from the first two words of that so called from the first two words of that confession. Like most of the prayers in the Jewish festival ritual, called makeor, it is acrostically arranged. Each verse asks forgiveness for a special sin presumed to have been committed by the person confessing. This, like the 'lesser confession,' ** **askammu (which see), is most solemnly chanted by the reader and congregation several times during the services of the day of Atonement.

alicyclic (al-i-sik'lik), a. [ali(phatic) + Gr. κύκλος, a circle, + -ic (see cyclic).] In chem., a term introduced by Bamberger to designate a compound containing a ring of carbon atoms but at the same time having many of the properties of the aliphatic or open-chain comoounda

alienation. n. 2. The state in which a person has completely forgotten his identity and becomes a new person, alien to his former self.

This use of the term was proposed when the described mode of dissolution of personality first attracted attention; but the word having already the recognized technical meaning 1 (d), this employment of it has been

alienize (al'yen-iz), v. t.; pret. and pp. alienized, ppr. alienizing. [alien + -ize.] To render alien or foreign; form or conceive in accordance with foreign notions or ways. G. Meredith, Evan Harrington, p. 32.

alienocola (ā'li-en-ok'ō-lā), n.; pl. alienocola (-lō). [NL., < L. alienus, of another, + -cola, < colere, inhabit.] A parthenogenetic insect which is born upon and inhabits a plant of a different kind from that upon which its parent was born.

In the spring winged females are produced, which migrate to the Larch and give rise parthenogenetically to a wingless generation which hibernates under the bark. These alienocoles in the following spring produce parthenogenetic winged females.

Phillips, Proc. Amer. Philos. Soc., 1903, p. 298.

aliethmoidal (al'i-eth-moi'dal), a. [aliethmoid + -al.] Pertaining to the aliethmoid, or wing of the ethmoid region of the orbitonasal cartilage; relating to that part of the mesethmoid cartilage from which the aliethmoids are developed. W. K. Parker, Morphol. of the Skull,

alif (a'lif), n. [Pers., Ar. 'alif = Heb. 'aleph: see alpha.] The first letter of the Persian (Arabic) alphabet, consisting of a single stroke; hence, a mere letter; a jot.

A hair, they say, divides the false and true;
Yes; and a single alif were the clue,
Could you but find it, to the Treasure-house,
And peradventure to The Master, too.
Füzgerald, trans. Omar Khayyam, Rubaiyat, quat. 1.

aliipoe (ä-lē'ē-pō'ā), n [Hawaiian.] The common canna or Indian-shot, Canna indica.

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alimentum (al-i-men'tum), (-til.) [L.: see aliment.] Aliment; food. Pop. Sci. Mo., LIX. 468.
alinement, n. 4. In archeol., megaliths ar-[L.: see aliment.] Aliment; food. Pop.

ranged in single, parallel, or converging rows.

alinite (al'i-nit), n. [G. alinit, a trade-name.

From its use and form it may be conjectured to be formed from L. al(imentum), aliment, +
-in² + -ite².] A preparation in the form of a
yellowish powder containing a pure culture of
Bacillus Ellenbachensis a. It is used for soil-inoculation, and is said to be an aid to cereals in

assimilating nitrogen. Also alinit.

alinjection (al-in-jek'shon), n. [al(cohol) + injection.] In histol., the injection of alcohol into the tissues for the purpose of hardening

them. B. G. Wilder.

alintatao (ä-lin-tä'tou), n. [Said to be a Tagalog name.] In the Philippine Islands, a tree, log name.] In the Philippine Islands, a tree, Diospyros pilosanthera, of the ebony family. It has simple alternate entire leaves, small unisexual flowers, and globose edible fruit, and yields a very hard, dark-colored wood like ebony, which is used in cabinet-making. alipata (ā-lē-pā'tā), n. [Said to be Bisayan, but not found.] In the Philippine Islands, the blinding-tree, Execcaria Agallocha. See Execcaria, tiger's-milk, and *blinding-tree.
aliphatic (al-i-fat'ik), a. [NL. aliphaticus, < Gr. άλειφαρ (-ar-), an unguent, fat, < άλειφεν, anoint.] Of or pertaining to fat; fatty; specifically, in chem. designating compounds which

ically, in chem., designating compounds which have only an open chain of carbon atoms, as distinguished especially from aromatic compounds, which contain a ring of carbon atoms. The natural fats consist chiefly of compounds

of this type.

aliquot (al'i-kwot), v. t. [aliquot, a.] To divide into equal parts which are a multiple or a submultiple of another quantity. An aliquoting mechanism is one which causes one part of a machine to move at times while the other part moves once. Sci. Amer. Sup., Nov. 22, 1902.

liquot tones, in acoustics, harmonics or overtones

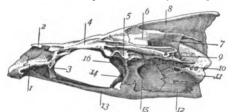
Aliquot tones, in acoustics, harmonics or overtones.

alisler (\$\bar{a}\$-le-zi-\bar{a}'), \$n\$. [Creole F., same as F. alizier, the bean-tree.] The stag-bush, Viburnum prunifolium. [Louisians.]

alism (al'izm), \$n\$. [al-, part of the Semitic name for 'God' (Heb. el-, Ar. il-, il\bar{a}h, al'l\bar{a}h, Al-l\bar{a}h), + -ism.] A title adopted by Francis F. Barham for his religious system, which honors (alivinity) and the allowed by the seminary and the seminary an 'divinity' as the all-supreme good, and de-scribes religion as the life of God in the soul of man, a divinity of essential being rather

than formal doctrine.

alisphenoid, n. 2. In ichth., a small lateral bone of the cranium. It articulates above with the sphenotic and an inner descending wing of the frontal, and behind with the prootic. It usually forms a part of





Roccus lineatus. Inferior View of Cranium. I, vomer; 2, ethmoid; 3, prefrontal; 4, frontal; 5, sphenotic; 6, parietal; 7, epiotic; 8, supraoccipital; 9, pterotic; 10, opisthotic; 11, exoccipital; 12, basioccipital; 13, parasphenoid; 14, basisphenoid; 15, proötic; 10, alisphenoid;

the lateral border of the anterior opening of the brain-case, though sometimes it nearly closes this by bend-ing inward and meeting its opposite fellow in a median suture. The 'alisphenoid' of Owen is the 'proötic' of

Parker.

aliturgic (a-li-ter'jik), a. [a-18 + liturgic.]

Without liturgy: designating a day in the Christian year when the liturgical order is dispensed with. Strictly speaking, this never occurs. The mass of the presanctified on Good Friday, referred to below, is according to the liturgy, though the liturgical order is curtailed in that ceremony.

Meanwhile, both in East and West, the general practice has continued unbroken of reserving the Eucharist, in order that the "mass of the presanctified" might take place on certain "aliturgic" days.

Encyc. Brit., XXXII. 220.

aliturgical (a-li-ter'ji-kal), a. Same as *ali-

alivincular (al'i-ving'kū-lār), a. [L. ala, wing, + vinculum, band, + - ar³.] Noting that form of ligament in the pelecypod mollusks which is like a cord or plug extending between the beaks of the two valves: it may be central

or posterior: contrasted with paricincular.
alizarate (a-liz'a-rāt), n. [alizar-in + - atel.]

alizarate (a-liz'a-rāt), n. [alizar-in + -ate1.] A salt of alizarin.

A salt of alizarin.

Alizarin, n. Commercial alizarin is sold in the form of a yellow paste containing 20 per cent. of dry substance, and, less frequently, as a dry powder. The dry substance in the paste is seldom pure alizarin, but contains varying amounts of flavopurpurin and anthrapurpurin, both of which have properties similar to alizarin. Natural alizarin derived from madder contains purpurin in addition to the above. The nature of the various commercial alizarins is often designated by suffixed letters or numbers. Thus alizarin I, alizarin P, and alizarin V sre nearly pure alizarin and give bluish reds, while alizarin CA, alizarin G, etc., contain anthrapurpurin or flavopurpurin, or both, and give yellowish reds.—Alizarin black, blue, Bordeaux, cardinal, etc. See *black, etc.—Alizarin saphirol, an acid dyestuff derived from anthraquinone. It dyes wool a bright and clear blue which is remarkably fast to light.—Alizarin yellow, violet. See *yellow, *wiolet.'

aljama (äl-hä'mä), n. [Sp., <'Ar. al, the, +

Aljama (äl-ha'mä), n. [Sp., <'Ar. al, the, +Ar. jama'a, a gathering, a congregation.] A self-governing community of Jews or of Moors living in Spain under Spanish rule during the middle ages.

aljofaina (äl'hō-fä'ē-nä), n. [Sp., < Ar. al-ho-faina, al-hufaina, < al, the, + hofaina, hufaina, < hafna, a cup, porringer (Monlau).] An earthen jug or basin.

alionioli, n. Same as *ajonjoli.

alionjoli, n. Same as *ajonjoli.

Alkahada pottery. See *pottery.

alkali, n., 3. This term used in the commercial sense, includes the carbonates of sodium and potassium, formerly called midd alkalis, and the hydroxids of the same metals, the caustic alkalis, and the hydroxids of the same metals, the caustic alkalis. The alkali industry is one of great importance, especially the manufacture of soda, both carbonate and caustic. It is carried on mainly by three methods: the Leblanc process, the Solvay or ammonia process, and the electrolytic process. In the last of these, of recent introduction, a solution of common salt is decomposed by an electric current. The Solvay process is not practically applicable to the production of potash; it is at present the principal source of soda.

4. A mineral compound soluble in water under ordinary surface conditions. They are chiefly

cess is not practically applicable to the production of potash; it is at present the principal source of soda.

4. A mineral compound soluble in water under ordinary surface conditions. They are chiefly chlorids, sulphates, carbonates, and bicarbonates of sodium, potassium, magnesium, and calcium. These salts commonly efforesce and form crusts over surfaces in dry seasons. They are derived from the decay of rocks, and are carried in solution from these sources, becoming concentrated enough to be detrimental only in arid or semi-arid regions. There are two well-known types, black and white.—Alkali blue-grass, brown, bulrush. See *blue-grass, otc.—Alkali in its soil: usually the undrained or poorly drained remnant of a former lake in an arid region.—Alkali manufacture, in a general sense, the production on the great scale of the alkalis soda and potash, and their carbonates, but more generally used in a restricted sense to mean the manufacture of soda, carbonate and caustic, especially by the Leblanc process, with the accessory products, as bleaching-powder, commonly made on the same premises.—Alkali soil, any soil containing an unusual amount of soluble mineral salts or alkali. More than four tenths of one per cent. of such soluble matter is injurious to most vegetation, although smaller amounts, on the contrary, are often advantageous. Soils naturally well drained do not suffer from these constituents, and alkali soils are confined either to poorly drained or to arid regions.—Alkali spot, an area underlain by waters which drain from irrigated lands, frequently becoming increasingly saturated with alkali. Yearbook U. S. Dept. Apr. 1900, p. 472.—Alkali waste, in the Leblanc process for the manufacture of carbonate of soda from common salt, the insoluble residue left after leaching black ash with water. It consists chiefly of calcium sulphid, carbonate, and hydroxid, and is largely utilized for the recovery of the sulphur which it contains.—Alkali waters, natural mineral waters so heavily charged with alkalis as t

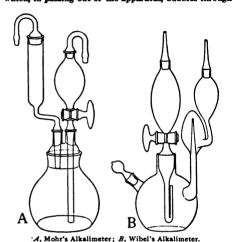
Ammonia and sodium carbonate or "black alkali," on the other hand, break down any aggregates which have been formed, and thus have the effect of "puddling" the soil, which dries into a hard compact mass. Yearbook U. S. Dept. of Agr. 1900, p. 209.

Refined alkali. Same as white *alkali.-White alkali. in the manufacture of carbonate of soda by the Leblanc process, the product obtained by redissolving soda-ash in water, clarifying the liquor, and evaporating to dryness. alkalic (al-kal'ik), a. [alkali + -ic.] 1. Same as alkaline. Elect. World and Engin., Sept. 3, 1904.—2. Specifically applied to the minerals of igneous rocks (in the quantitative classifi-cation) or to magmas and rocks generally, when specially characterized by their alkali contents: in distinction from alkaline, which im-

alkalicalcic (al'kal-i-kal'sik), a. [alkali+calcic]. In petrog., a term used in the quantitative classification of igneous rocks to indicate that certain rocks, the chemical composition of which is brown controlled. tion of which is known, contain alkalis and lime belonging to the standard salic minerals (feldspars and feldspathoids) in equal or nearly equal amounts. A certain systematic division of the quantitative classification is called the alkalicalcic rang. See quantitative classification of igneous rocks, under

2. Puccinellia airoides (somealkali-grass, n. times called alkali meadow-grass) and P. Lemmoni, of the northern Rocky Mountain region. Sporobolus airoides of the Southwest has been called alkali finetop.—3. A species of poison camass, Zigadenus elegans, dangerous to stock: so called in the stock-raising regions of Mon-

alkalimeter, n. 2. An instrument for the quantitative analysis of carbonated alkali. It consists LIGATIVE SIGLISTS OF CAPPOINTEG SIGNATION AND THE SIGNATURE OF SIGNATU



concentrated sulphuric acid or passes over calcium chlorid and is thus deprived of moisture. The apparatus is weighed a second time, the loss in weight representing the carbon dioxid evolved and thus indicating the quality of the carbonate. As a precaution, dry air is drawn through the apparatus to displace any residual gas. Special forms have been devised by Bunsen, Fresenius, Schroetter, Mohr, and others.

[alkali + alkalimirlic (al'kal-i-mer'lik), a. mirike. In petrog., a term used in the quanti-tative classification of igneous rocks to indi-cate that certain rocks, the chemical composition of which is known, contain alkalis and mirlic constituents belonging to the standard femic minerals in equal or nearly equal amounts. A certain systematic division of the quantitative system is called an alkalimirlic rang. See quantitative classification of igneous

rang. See quantitative classification of igneous rocks, under *rock.

Alkaline glands. See *gland.— Alkaline iodide. See *kidde.— Alkaline metals, the metals of which the hydroxids constitute the alkalis, namely, sodium, potassium, and the rarer lithium, rubdium, and cassium.— Alkaline tide. See *kide.— Alkaline water, a mineral water occurring in nature with the carbonate of sodium or potassium (generally the former) as an ingredient in sufficient quantity to give a well-marked reaction to testpaper and medicinal activity. The carbonates of calcium and magnesium are also frequently present, dissolved by excess of carbonic acid. The waters of Vichy in France and Ems in Germany are examples.

alkali-weed (al'ka-li-wed), n. The yerba manss, Anemopsis Californica.

alkali-works (al'ka-li-werks), n. pl. The buildings, machinery, and other appliances used in the conduct of the alkali manufacture.

alkalizer (al'ka-li-zer), n. A chemical agent

alkalizer (al'ka-li-zèr), n. A chemical agent which tends to render alkaline.

on the back, with an almost white breast. In northern Peruvian (Quichua) it is called china-linda.

alkameine (al-kam'ē-in), n. [G. *alkameine; as alkam(ine) + -e-ine².] The carboxylic ester of an alkamine or alkine. Also called alkeine. alkamine (al-kam'in), n. [G. *alkamin, < al-k(ohol), alcohol, + amine.] A name given k(0n01), alcohol, + amine.] A name given by Ladenburg to tertiary bases which contain an alcoholic group, as diethylethylol amine, $(C_2H_5)_2NC_2H_4OH$. Also called alkine. alkane (al'kān), n. [G. *alkan(1), $\langle alk(ohol), +$ an, E. -ane.] A hydrocarbon, C_nH_{2n+2} , of the marsh-gas or methane series: official name.

alkannin (al-kan'in), n. [Alkanna + -in².] A coloring matter, C₁₅H₁₄O₄, obtained as a dark reddish-brown powder from Alkanna tinctoria.

alkapton (al-kap'tōn), n. [alk(ali) + Gr. āπτευ, touch.] A term originally introduced to designate a certain urinary constituent which is met with on rare occasions, and which causes the urine to turn reddish brown or black on standing or upon the addition of an alkali. The substance to which this reaction is due has been identified as homogentisinic acid, $C_0H_3(OH)_3$. COOH. In one instance uroleucinic acid has been found in the place of homogentisinic acid. Also alcap-

alkaptonic (al-kap-ton'ik), a. Of or pertaining to alkapton. Homogentisinic acid and uroleucinic acid are sometimes collectively

uroleucinic acid are sometimes collectively termed alkaptonic acids. See *alkapton. alkaptonuria (al-kap-tō-nū'ri-ā), n. [NL., < alkapton + oipov, urine.] The presence of alkapton in the urine when voided: a rare meta-

alkeine, n. Same as *alkaneine.

alkeine, n. Same as *alkaneine.

alkeine, f. E. -ene.] A hydrocarbon, CaH_{2n}, of the ethylene or ethene series: official

name.
alkine (al'kin), n. [G. *alkin, \langle alk(ohol), E. alcohol, + -in, E. -ine².] 1. A hydrocarbon, $C_nH_{2^{n-2}}$, of the acetylene or ethine series: official name.—2. Same as *alkamine.
alkoxyl (al-kok'sil), n. [G. *alkoxyl, \langle alk(ohol), alcohol, + E. ox(ygen) + -yl.] A general name for an alkyl-group and oxygen, as ethoxyl,

C2H5O.

alkylate (al'ki-lāt), v. t.; pret. and pp. alkylated, ppr. alkylating. [alkyl + -ate¹.] To introduce an alkyl in place of a hydrogen atom. Amer. Chem. Jour., April, 1903.

alkylation (al-ki-lā'shon), n. [alkylate + -ion.] The process of introducing an alkyl in place of hydrogen. Nature, July, 9, 1903.

alkylene (al'ki-lēn), n. [alkyl + -ene.] Same as *alkene or olefine.

alkylidine (al-kil'i-din), n. [alkyl + -id + -ine².] The term applied, in organic chemistry, to bivalent hydrocarbon radicals, containing the group XRR, where R represents hydrogen or any hydrocarbon radical, such as methyl, CH₃. The ethylidine radicals are isomeric with the bivalent ethylene radical,

-CR₂.CR₂.

allachæsthesia (al'a-kes-thē'si-ā), n. [NI \langle Gr. $\dot{a}\lambda\lambda a\chi\bar{\eta}$, elsewhere (\langle $\dot{a}\lambda\lambda\dot{\alpha}\zeta$, other), alσθησις, feeling.] The perception of a sensation elsewhere than at the point where the

stimulus is applied.

allactite (al'ak-tit), n. [Gr. ἀλλακτ(ικός), adj., ⟨ ἀλλάσσειν, change, exchange (see allagite), + -ite².] An arseniate of manganese occurring in small brownish-red prismatic crystals: found in Sweden.

Allagecrinidæ (a-laj-ē-krin'-i-dē), n. pl. [NL., (Allagecrinus + -idæ.] The name given by Etheridge and Carpenter to a family of simple inductor arising. inadunate crinoids. They have a very small calyx, basal plates ankylosed and supporting sometimes two arms, sometimes one. They lived in early Carboniferous

Allagecrinus (al-a-jek'ri-nus), n. [NL., irreg. (Gr. ἀλλαγή, change, + κρίνον, lily.] The typical and only genus of the family Allage-

which tends to render alkaline.

alkaloid, n.—Animal alkaloid, a leucomaine or a ptomaine. See these words.—Artificial alkaloid, synthetic alkaloid,—Cadaveric or putrefactive alkaloid a ptomaine.—Synthetic alkaloid, an alkaloid formed artificially by chemical processes.

alkamari (äl-kä-mä'rē), n. [Aymará of Bolivia.] A bird of prey, Polyphorus tharus, of the family Falconidæ (though chiefly a scavenger), frequently met with in the highlands of Peru and Bolivia. It stalks about in pairs in cultivated patches and open spaces, and when disturbed it flies only a short distance. Its plumage is dark brown allalinite (al-a-lin'īt), n. [Allalin, a locality in Switzerland, +-ite².] In petrog., a name used by Rosenbusch for saussurite-gabbro in which the secondary smaragdite and saussurite

gether with urea and allanturic acid, by the ection of nitric acid on allantoin.

allantiasis (al-an-ti'a-sis), n. [NL., \langle Gr. $\dot{a}\lambda\lambda\hat{a}\varsigma$ ($\dot{a}\lambda\lambda av\tau$ -) + -iasis (noting a disease).] Same as *botulism.

allantoid, a. 2. In bot., sausage-shaped: applied especially to the spores of certain pyrenomycetous fungi.

Allantosporas (al-an-tos'pō-rō), n. pl. [NL., (Gr. $\dot{\alpha}\lambda\lambda\dot{a}_{1}$ ($\dot{\alpha}\lambda\lambda\dot{a}_{2}$ ($\dot{\alpha}\lambda\lambda\dot{a}_{2}$ -), sausage, $+\sigma\pi\sigma\rho\dot{a}$, spore.] A name applied by Saccardo to artificial divisions of various families and orders of fungi, especially those of the Pyrenomycetes and Fungi imperfecti, to include the genera which have unicellular, cylindric, or curved

spores. **allantoxaldin** (al-an'tok-sā'i-din), n. [allantoxa(n:c) + $-id^2$ + $-in^2$.] A substance, $C_3H_3N_3$ - O_2 + H_2O , formed from allantoxanic acid by the loss of carbon dioxid. It is a weak acid.

allantoxanic (al-an'tok-san'ik), a. [allant(oin) + ox(ygen) + -an- + -ic.] Noting an acid, C₄H₃N₃O₄, formed by the oxidation of allantoin in an alkaline solution. It exists only in the form of salts.

allapinet, n. Another spelling of alcpine.
alleged (a-lejd'), p. a. That is or has been stated to be (what is specified in the following word or clause); merely stated or asserted: much used when one wishes to disclaim responsibility for the statement, or to intimate his disbelief in it: as, an alleged lact; an alleged interview; an alleged illness.

We cannot be sure that the alleged second dispatch was ever sent. Sir G. Cox, Gen. Hist. Greece, III. 10.

Alleghanian (al-ē-gā'ni-an), a. and n. 1. Of or pertaining to the Alleghanies.—2. In anthrop., noting one of the secondary races of man, established by Geoffroy Saint-Hilaire, embracing the 'Red Indian.' Also used sub-

stantively. — Alleghanian area. See *area.

Alleghany River series. See *series.

allegorism (al'ē-gō-rizm), n. 1. Allegory or allegorical writing.—2. Allegorical interpretation, especially of the Scriptures. See the

Allegoriem: That explanation of a Scripture passage which is based upon the supposition that its author, whether God or man, intended something 'other' than what is literally expressed. . . . Expositors of this system may be called allegorists; the system itself allegoriem.

Ginzberg, Jewish Encyc., I. 403.

allegorist, n. 2. One who interprets Scripture allegorically. See *allegorism, 2. allegoristic (al'ē-gē-ris'tik), a. Of or pertain-

ing to an allegorist or writer of allegories: as,

the allegoristic style; allegoristic lessons.

allégresse (al-ā-gres'), n. [F., allègre, lively:
see allegro.] Gaiety; sprightliness; gladsomeness; glee. Urquhart.

Allegrippus conglomerate. See *conglom-

erate.

allegro, a. Special varieties of movement or style are indicated by adding other terms: as, allegro agitato, quick and with agitation; allegro assai, very quick; allegro com brio or con fuoco, quick and with spirit or intensity; allegro con moto or allegro motto, with decided quickness; allegro vivace, quick and with vivacity; allegro giusto, quick, but with steady, even movement; allegro moderato, moderately quick; allegro ma non troppo, quick, but not excessively so.

3 llais (e.lais) = [Anglo. Ind. Also collaich.

alleja (a-lē'jā), n. [Anglo-Ind. Also allejah, allacha, alacha, etc., 'Hind. *alācha, ilācha, ilācha, 'Turki alāchah, alajah, alchah (Yule).] A silk-and-cotton fabric of central Asia, woven in wavy effects.

allelomorph (a-lel'ō-môrf), n. [Gr. 'αλλήλων, of one another, + μορφή, form.] In biol., one of a pair of mutually exclusive qualities exhibited respectively by each of two pure races or varieties of a species, these qualities being of such a nature that one or the other of the of such a nature that one or the other of the pair is exhibited in perfection, to the complete exclusion of the other, by each cross-bred descendant of the two pure races. When the cross-bred offspring, or the descendants of the cross-bred offspring, or two pure races or varieties which difer from each other in respect to some characteristic are like one or the other parent in respect to this characteristic, and not intermediate between them, the characteristic in question, in each parental form, is termed by Bateson an alkelomorph, or in both parental forms, considered collectively, a pair of alkelomorphs. Thus, for example, when descendants are reared from a tall (D) and a short (R) variety of the garden-pea, some are tall and some short, but intermediate forms are as rare as they are in the tall and short varieties of pure blood when bred true. In this case tallness and shortness may be considered as a pair of mutually antagonistic or incompatible unit characters, or alkelomorphs, each of which may replace but not combine with the other in the descendants from a cross between them. According to Mendel and those who accept his theoretical explanation of the results of his experiments, the cross-bred individuals have two sorts of germ-cells in approximately
equal numbers, those which are like the germ-cells of
one pure parental race (D) and those which are like the
germ-cells of the other (B.). If descendants are born
from cross-breeds through the union of two of the D or
tall germ-cells, the shortness (R) of the short variety
will not be represented in the fertilized eggs from which
they arise, and they will be tall and will have none but
tall descendants; while those which arise from fertilized
eggs formed by the union of the R or short germ-cells
will be short and will have none but short descendants.
Those which arise from fertilized eggs formed by the
union of a tall (D) and a short (R) germ-cell may be tall
or short but not intermediate.

[If] two similar gametes meet, their offspring will be

or short but not intermediate.

[If] two similar gametes meet, their offspring will be no more likely to show the other allelomorph than if no cross had ever taken place.

Bateson and Saunders, Rep. Evol. Com. Roy. Soc. 1902, [I. 159.

allelomorphic (a-lel-ō-môr'fik), a. [allelomorph + -ic.] Concerning or pertaining to an allelomorph; Mendelian.

But besides the strictly allelomorphic or Mendelian distribution of characters among the gametes . . . we can imagine three other arrangements.

Bateson and Saunders, Rep. Evol. Com. Roy. Soc. 1902, [I. 127.

Allelomorphic variety, an analytical variety. See ★va-

allelomorphism (a-lel-ō-môr'fizm), n. [allelo-morph (ic) + -ism.] The presence or the transmission or the inheritance of allelomorphic

It does not appear as yet that simple allelomorphism cours between any two colours, of which neither is It does not appear as you colours, of which neitner is xanthic or albino.

Bateson and Saunders, Rep. Evol. Com. Roy. Soc. 1902,
[I. 142.

allelotaxis (a-lel-ō-tak'sis), n. [Gr. ἀλλήλων, of one another, + τάξις, arrangement.] In emof one another, + τάξις, arrangement.] In embryol., the origin of an organ from several embryonic sources, such as that of the hypophysis from the entoderm of the pharynx and the ectoderm of the brain. Von Kupffer.

allelotropy (a-le-lot'rō-pi), n. [Gr. ἀλλήλων, of each other, +-τροπία, < τρέπειν, turn.] The existence in a tautomeric substance of the two isomeric force in such a condition that either

all-fives (âl'fivz'), n. A variety of all-fours in which the points are scored as fast as made in the tricks taken in. Ace of trumps counts 4, king 3, queen 2, jack 1, ten 10, and five 5. The gamepoint is decided by counting these all over again at the end. Sixty-one points make a game.

alliance, n.—Farmers' Alliance, a cooperative association of farmers, formed in Texas in 1876, for mutual protection and assistance, especially in dealings with middlemen and against the encroachments of capitalists in their wholesale purchases of lands. In later years similar associations were formed in different parts of the United States, and as a result of frequent amalgamations of these the present Farmers' Alliance and Industrial Union came into existence as a political body, cooperating more or less closely with the People's party.—Grand Alliance. See Grand Alliance in Cyclopedia of Names.—Presbyterian Alliance. See *Presbyterian.

allicholy† (al'i-kol-i), a. A jocose perversion of the word 'melancholy.' Shak., T. G. of V., iv. 2. 27.

A disconsolate wood-plgeon . . so allicholy as any-

A disconsolate wood-pigeon . . . so allicholy as anything. Walpole, Letters, I. 8.

alligator, n. 6. A boat used in handling floatalligator, n. 6. A boat used in handling floating logs. It can be moved overland from one body of water to another by its own power, usually applied through a drum and cable. [U. S.] Horn alligator, alligator leather made from the back of the skin, which has the roughest and largest scales, resembling plates of horn.

Alligatorellus (al'i-gā-to-rel'us), n. [NL., < Alligator + dim. -ellus.] An extinct genus of small crocodilians from the Jurassic lithographic stone of Cérin, France.

Alligatorium (al'i-gā-tō'ri-um), n. [NL., <

Alligatorium (al"i-gā-tō'ri-um), n. [NL., < Alligat(or) + -orium.] An extinct genus of small crocodilians of the family Atoposauridæ, from the Jurassic lithographic limestone of France and Bayaria.

alligator-shears (al'i-gā-tor-shērz"), n. sing. alligator-shears (al'i-ga-tor-shērz"), n. sing.

and pl. Shears used for cutting off puddled bars in lengths suitable for piling, and also the crop ends of bars in general. There is a fixed lower jaw, and an upper movable jaw, whose fulcrum is set at the inner end of the cutting portion. Behind the fulcrum the lever

Allodesma (al-ō-dez'mš), n. [NL., < Gr. ἀλλος,

is prolonged, and attached to a connecting-rod which receives its oscillatory movement from a crank or eccentric. Also called *crocodile*- or cropping-shears. Lockwood, Dict. Mech. Eng. Terms.

alligator-snapper (al'i-gā-tor-snap'èr), n. The more common name for the alligator-terrapin, Macrochelys lacertina, a species of fresh-water turtle found along the border of the Gulf of Mexico from Florida to Texas. It is the largest fresh-water turtle of North America and possibly of the world, reaching a length of 5 feet and a weight of 150 pounds

and a weight of 150 pounds.

Allionia (al-i-ō'ni-ā), n. [NL. (Loefling, 1758), named in honor of Carlo Allioni (1725-1804), a professor of botany at Turin.] A genus of dicotyledonous plants of the family Nyctaginaceæ. See Oxybaphus.

alliteral (a-lit'e-ral), a. [Irreg. < L. ad, to, + litera, letter: see literal.] Characterized by alliteration; alliterational: as, the alliteral languages of Africa.

languages of Africa.

alliterate, n. II. a. Formed by or showing alliteration: as, alliterate words.
alliterational (a-lit-e-rā'shon-al), a. Characterized by or abounding in alliteration. Penny Cyc., 1858.

sellituric (al-i-tū'rik), a. [all(antoin) + -it-+ uric(f).] Noting an acid, $C_6H_6O_4N_4$, formed by boiling a solution of alloxantin with hydroboiling a solution of alloxantin with hydrochloric acid. It is a yellowish, crystalline powder moderately soluble in hot water.

all-nighter (âl-ni'ter), n. A public hack which plies during the night. [Slang.]

allo-. 2. In chem., a prefix proposed by Michael

to designate an unexplained isomerism. Thus fumaric acid would be called allomalete acid. The prefix is used for that isomer which is the less stable of the two compounds considered.

allo-autogamous (al'ō-â-tog'a-mus), a. [Gr. àλλος, other, + autogamous.] In bot., self-fer-illicition but only when compositive time faile.

tilizing, but only when cross-fertilization fails.

allesthesia (al-es-thē'si-\(\text{a}\), \(\text{n}\). [NL., \(\text{Gr. a}\) allesthesia (al'\(\text{fivz'}\)), \(\text{n}\). [NL., \(\text{Gr. a}\) allestinea and eight fours in which the points made in the parameters allocalization. A compound, the character of being allocation. The character of being allocation autogamous.

allocation (al'\(\text{o}\)-ka-fē'in), \(n\). A compound, the character of being allocation autogamous.

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allocation (al'\(\text{o}\)-ka-fē'in), \(n\). A compound, the character of being allocation autogamous.

allocation (al'\(\text{o}\)-ka-fē'in), \(n\). A compound, the character of being allocation autogamous.

allocation (al'\(\text{o}\)-ka-fē'in), \(n\). A compound of methylcation with water. It melts at 1960-1980 C.

allocation (al'\(\text{o}\)-ka-fē'in), \(n\). [Gr. \(\text{\day}\) \(\text{o}\)-kar-pi), \(n\). [Gr. \(\text{\day}\) \(\text{o}\)-kar-pi), \(n\). [Gr. \(\text{\day}\) \(\text{o}\)-kar-pi), \(n\). [Gr. \(\text{\day}\) \(\text{o}\)-kar-pi, \(n\). A compound of the character of being allocation parameters.

allocation (al'\(\text{o}\)-ka-fē'in), \(n\). [Gr. \(\text{d}\)\) \(\text{o}\)-kar-pi, \(n\). (Allocation parameters lar, correspondent, or identical in form, as the right hand is to the left, though on opposite sides of the body and the parts are arranged in reverse order: opposed to *homochiral. See also *heterochiral.

allochirally (al-ō-kī'ral-i), adv. In an allochiral manner; as one hand is to the other.

Allochromatic precious stones, precious stones of a variable character, that is, possessing one or more colors in the same crystal or gem.

allocinnamic (al-ō-sin'a-mik), a. [Gr. ἀλλος, other, + cinnamic.] Noting an acid isomeric with ordinary cinnamic acid, but closely related to it in structure. The two acids are allocinnamic (al-ō-sin'a-mik), a.

supposed to be stereomers.

alloclase (al'ō-klās), n. [Gr. ἀλλος, other, +
κλάσις, breaking, < κλάν, break.] Same as *alloclasite

alloclasite (a-lō'kla-sīt), n. [As alloclase + -ite².] A mineral related to arsenopyrite, con-

taining sulphur, arsenic, bismuth, cobalt, and iron: found in Hungary.

allocochick (al-ō-kō'chik), n. [N. W. North Amer. Ind.] The name of Indian shell-money used in northern California.

aslocryptic (al- $\bar{\phi}$ -krip'tik), a. [Gr. ἀλλος, other, + κρυπτός, hidden.] Concerning or pertaining to the concealment of an organism by objects which are not part of its body.

Allocryptic methods may also be used for aggressive purposes, as the ant-lion larva, almost buried in sand, or the large frog Ceratophrys, which covers its back with earth when waiting for its prey.

Encyc. Brit., XXVII. 147.

thority and in reprehension, as in a papal allo-

other, + δέσμα, band, ligament.] The typical genus of the family Allodesmids.

allodesmid (al-ō-dez'mid), a. and n. Having the characters of the Allodesmide. II. n. A member of the pelecypod family Allodesmids.

Allodesmidæ (al-ō-dez'mi-dē), n. pl. [NL., < Allodesma + -idæ.] A family of extinct pelecypods of the order Teleodesmacea having very primitive characters and regarded by Neumayr as indicating the first stage in the development of the teleodesmacean hinge, as in Netrote and Cardium. The valves are small and round, the cardinal area is linear, the ligament is part-vincular, the hinge has one or two lateral lamins on each side of the beak, and the cardinal teeth are radially grooved. They are known only from the Silurian rocks.

Allodon (al'ō-don), n. [Gr. ἀλλος, other, + οδούς (οδοντ-), tooth.] A genus of extinct monotremes from the Upper Jurassic rocks of North America, having three upper incisors, of which the second is greatly enlarged. More correctly written Allodus.

Allodus (al'ō-dus), n. See *Allodon.
Alloccœla (al-ō-o-sē'lā), n. pl. See *Alloiocœla.
allœogenesis, n. 2. The alternation of sexual and parthenogenetic generations, seen especially in certain parasitic Trematoda. Also alloiogenesis. Schwarze.

allæogenetic (al^eō-ō-je-net'ik), a. Pertaining to or produced by allæogenesis.

allogenic (al-ō-jen'ik), a. [Gr. ἀλλος, other, + -γενης, -producing.] Of a different origin: in geol., applied to those inclusions in an igneous rock which are obviously older than the inclosing rock, and to the components of a clastic rock which have originated elsewhere: contrasted with *authigenic.

Alloiocela (a-loi-ō-sē'lā), n. pl. [NL., < Gr. άλλοιο, of another sort, + κοίλου, a hollow.]

An order or a suborder of Turbellaria having the enteron lobed or an irregularly widened sac. It contains the families Plagiostomidæ, Monatide and Bothein legida. Monotidæ, and Bothrioplanidæ. Also Allæocæla.

lloiocœlous (a-loi-ō-sē'lus), a. Having the characteristics of or resembling the Alloiocæla. alloiogenesis (al-oi-ō-jen'ē-sis), n. See *allœo-

genesis, 2.

alloisomerism (al'ō-ī-som'e-rizm), n. [Gr. āλλος, other, + isomerism.] In chem., a term introduced by Michael to distinguish certain cases of isomerism between different substances of the same percentage composition (as maleic acid and fumaric acid), involving, it is now believed, different geometrical positions of the atoms in space.

alloite (al'o-it), n. [Irreg. (Gr. άλλος, other, + ite².] In petrog., a name proposed by Cordier (1816) for volcanic tuff of white or yellowish color and imperfectly indurated.

allokinetic (al-ō-ki-net'ik), a. [Gr. ἀλλος, other, + κυητός, moved: see kinetic.] Moving in response to an external stimulus: opposed to *autokinetic.

allomorph (al'ō-môrf), n. [Gr. ἀλλος, other, + μορφή, form.] In mineral., a paramorph, that is, a pseudomorph formed by molecular change only, the chemical composition remaining the same, as calcite after aragonite.

allomorphic, a. 2. In petrog., same as xeno-

allopalladium (al'ō-pa-lā'di-um), n. A sup-posed allotropic form of native palladium, rystallizing in hexagonal plates.

allopelagic (al' $\tilde{\phi}$ - $\tilde{p}\tilde{\phi}$ -laj'ik), a. [Gr. $\tilde{a}\lambda\lambda\rho_{S}$, other, $+\pi\ell\lambda\alpha_{J}\rho_{S}$, sea.] Being in different parts of the sea (at different times); moving up and down irregularly in the sea in search of up and down irregularly in the sea in search of food, for purposes of reproduction, at different stages of development, or in response to any stimulus except light or heat. A pelagic fish that floats as an egg and swims at the surface while young, afterward wandering in deeper water, is allopelagic. The word was introduced by Haeckel for the purpose of contrasting organisms that wander up and down irregularly with those that come to the surface only at night or only in the winter. See *bathypelagic, *nyclipelagic, *chimopelagic.

allophylous (a-lof'i-lus), a. Same as allo-

allocutive (a-lok'ū-tiv), a. Speaking with au- alloplasmatic (al'ō-plas-mat'ik), a. [Gr. άλλος, other, $+\pi\lambda\delta\sigma\mu a$, anything formed.] Constructed out of cells or by cells, but incapable of growth by cell-multiplication.

allopsychic (al-op-sī'kik), a. [Gr. ἀλλος, other, + ψυχή, soul, mind.] Pertaining to mind or consciousness in its relation to the external world. Also allopsychical.

Consciousness is a function of the associative mechanism, and may be considered in its threefold relationship to the outer world, the body, and self,—allopsychic, somatopsychic, and autopsychic.

Buck, Medical Handbook, IV. 27.

Buck, Medical Handbook, IV. 27.

allorhythmia (al-ō-rith'mi-ä), n. [NL., < Gr. ἀλλος, other, + ριθμος, rhythm.] In pathol., a condition in which the rhythm of the pulse varies from time to time. Lancet, Aug. 22, 1903.

Allorisma(al-ō-riz'mä), n. [NL., appar. < Gr. ἀλλος, other, + ἔρεισμα, support.] A genus of extinct pelecypods of Paleozoic age. They have valves which gape posteriorly, edentilous hinge, and parivincular ligament. The genus embraces species which show the earliest evidence of retractile siphons.

Allosaurus (al-ō-sà'rus), n. [NL., < Gr. ἀλλος, other, + σαὐρος, lizard.] A genus of dinosaurian reptiles described by Marsh from the Upper Jurassic beds of Colorado and closely allied to the better-known Megalosaurus. They have very short fore and large hind legs, the

allied to the better-known Megalosaurus. They have very short fore and large hind legs, the latter reaching a length of 5 feet.

allosematic (al*ō-sē-mat'ik), a. [Gr. ἀλλος, other, + σῆμα, mark: see sematic.] Having or using the sematic colors of another animal, which serve for deceptive protection. It has been suggested that the sea-anemones, which are often found on the shells of hermit-crabs and on the backs of decorative crabs, are illustrations of allosematic protection. Poulton, Colours of Animals, p. 338.

Allosomus (al-ō-sō'mus), n. [NL., ⟨Gr. ἀλλος, other, + σῶμα, body.] A subgeneric name for the division of the genus Argurosomus which

the division of the genus Argyrosomus which contains the tullibee, A. tullibee.

allothigene (al'ō-thi-jēn'), a. [Gr. ἀλλοθ, elsewhere, + -γενής, -produced.] Same as *allo-

allothigenetic (al'ō-thi-jē-net'ik), a. allothigenetic (al'o-thi-je-net'ik), a. [Gr. ἀλλοθ, elsewhere, + γένεσις, origin: see genetic.] In geol., composed of materials which have originated elsewhere: applied to the fragmental, sedimentary rocks, the components of which have been derived from other sources, as contrasted with the igneous rocks, whose minerals have crystallized in situ. See *allogenic.

allothigenetically (al'o-thi-je-net'i-kal-i), adv. In an allothigenetic manner or by means of allothigenetic materials.

adv. In an allothigenetic manner or by means of allothigenetic materials.

allothigenic (al'ō-thi-jen'ik), a. [Gr. ἀλλοθι, elsewhere (< ἀλλος, other), +-γενής, -produced.]

Same as *allothigenetic.

allothimorphic (al'ō-thi-môr'fik), a. [Gr. ἀλλοθι, elsewhere (< ἀλλος, other), + μορφή, form.]

In petrol., a term applied to particles derived from older reals which ratio in produced their from older rocks which retain unchanged their original form in the secondary clastic deposits vhere they now occur

allothogenic (al'ō-thō-jen'ik), a. Same as *al-

lothigenic.

allotriomorphic (a-lot-ri-ō-môr'fik), a. [Gr. αλλότρως, of another, alien, + μορφή, form.] Same as xenomorphic.
allotrophic (al-ō-trof'ik), a. [Gr. άλλως, other, + τροφή, nourishment.] Of altered nutritive value; rendered less nutritious.

Allotropic silver. See *silver.

allotropic silver. See "silver.

allotropism, n. The occurrence of more than one form of a chemical element with difference in physical properties is explained, in the light of the atomic theory, as depending on a difference in the number, and possibly in the arrangement, of the atoms which go to make up the molecule. Thus it is believed that in the more common form of oxygen there are two, but in the allotropic ozone three, atoms to the molecule.

allotropist (a-lot'rō-pist), n. One who explains the presentation of unusual properties by a chemical element by assuming the existence of that element in an allotropic form; specifically, an advocate of the theory that allotropic modian advocate of the theory that allotropic modifications of iron have an important effect in producing the hardness of suddenly quenched steel, as distinguished from a *carbonist(which see). Nature, May 5, 1904.

alloxuremia (al-ok-sū-rē'mi-ā), n. [alloxur(ic) + Gr. aiµa, blood.] A condition resulting from

the presence of any of the alloxuric bases in the

blood.

alloxuric (a-lok-sū'rik), a. [allox(an) + uric.]
Pertaining to or derived from alloxan and uric acid: noting certain bases comprising xanthin, hypoxanthin, episarcin, heteroxanthin, paraxanthin, theophyllin, theobromine, cafein, guanine, epiguanine, adenin, and carnin. They are all nuclear derivatives. Also termed xanthin bases or purin bases.

alloy, n. 1. A metallic alloy possesses the general physical properties of a metal, but is usually intermediate in properties between those of its constituents. Alloys are divided into three classes: (1) Those which form solid solutions in all proportions: (2) those which do not form solid solutions in all proportions, and which form no chemical compounds; and (3) those which form

one or more chemical compounds. An alloy of the first class forms a homogeneous fluid when melted, and a homogeneous solid after freezing. Alloys of the second class form a homogeneous fluid when melted, but on solidification the components separate from one another and form microscopic crystals of the different metals intimately associated, but not in chemical combination or solution. A highly magnified section of such an alloy would not show a homogeneous structure, but the individual crystals of the pure components could be distinguished. Alloys of the third class follow the same general laws on solidification as the alloys of the second class, but the crystals which separate do not consist of the pure components could be distinguished. Alloys of the third class follow the same general laws on solidification as the alloys of the second class, but the crystals which separate do not consist of the pure components. While other crystals will be formed of chemical compounds of the different components.—Aluminium alloys. See **aduminium.—Extectic alloy, an alloy having such a composition that it melts at a lower temperature than an alloy of the same metals having any other composition. See **aduminium.—Extectic alloy, an alloy having such a composition that it melts at a lower temperature than an alloy of the same metals having any other composition. See **aduminium.—Bratis of claminium. B parts of lead, 4 parts of tin, and 15 parts of cadmium, 8 parts of lead, 4 parts of tin, and 15 parts of cadmium, 8 parts of lead, 4 parts of tin, and 15 parts of bismuth. It melts at 158° F., and is used for castings of delicate objects, as well as for soldering Britannia metal and other white articles which cannot withstand high temperature.—Prinsep's alloys, in **pyrom**, a progressive series of alloys of gold, sliver, and platinum employed by James Prinsep's of gold, and 100 alloys of gold and sliver, each increased by **jo of gold, and 100 alloys of gold and platinum with a progressive increase of **yb of gold. The temperat

allspicy (âl'spi-si), a. [allspice + -y¹.] Warm; resembling allspice in warmth. Hood, Up the Rhine, p. 217. [Rare.]

All-the-Talents Administration. See *ad-

ministration.

alluranic (al- \bar{u} -ran'ik), a. [all(oxan) + ur(ea) + -an + -ic.] Noting a weak acid, $C_5H_4N_4O_4$, +-an+-ic.] Noting a weak a formed from alloxan and urea.

Alluring glands. See *gland.

Allurus (a-lū'rus), n. [NL., < Gr. ἀλλος, another, + οὐρά, tail.] A subgeneric name for a small group of snail-fishes, of the family Liparididæ, from the depths of the North Parida.

alluvial, a. 2. A term applied to the most recent or postglacial deposits, which follow the diluvial deposits.—Alluvial cone. See *cone.—Alluvial fan. Same as fan, 3.

II. n. Alluvial soil; specifically, in Australia and New Zealand, gold-bearing alluvial

alluviated (a-lū'vi-ā-ted), p. a. [alluvium + -ate² + -ed².] Pertaining to or characterized by alluvial deposits, such as alluvial fans. Geog. Jour. (R. G. S.), IX. 538.

alluviation (a-lū-vi-ā'shon), n. [alluvium + -ation.] The process of accumulating rock-debris along the lower reaches of slopes by rainwash and along the more slowly flowing stream-courses by loss of overload. Alluvial fans or cones, alluvial plains or flood-plains, and slope-waste are the chief products of alluviation. Chamberlin and Salisbury, Geol.,

allwhither (al'hwith'er), adv. In all directions. [Rare.]

The swell... crumbled up and ran allwhither offilly.

Kipling, Their Lawful Occasions.

allyl, n.—Sulphocarbamide of allyl, a crystallized compound obtained by the action of an excess of ammonium hydrate on the essential oil of mustard. A few drops of a saturated aqueous solution will reverse the image on a photographic plate and give a direct positive in the camera.

in the camera.

allylene (al'i-lēn), n. [allyl + -ene.] The name given to two isomeric hydrocarbons, methyl acetylene or propine, CH₃C:CH, and propadiene, CH₂:C:CH₂.

allylin (al'i-lin), n. [allyl + -in².] A name given to three ethers of glycerol and allyl alcohol known as monoallylin, diallylin, and triallylin. The last is C₃H₅O₃(C₃H₅)₃.

alma² (al'mä), n. [Turk.] A Turkish measure of capacity, equal to 1.15 gallons.

almacabala (al'ma-kab'a-lä), n. [ML. almacabala, \ Ar. al-muqdbalah, 'the comparison': see etym. of algebra and cf. cabala.] The mystic explanation of numbers and of relations mystic explanation of numbers and of relations of numbers

almacabalic (al-ma-kab'a-lik), a. Of or pertaining to almacabala.

almacen (äl-mä-than'), n. [Sp.: see magazine.] A warehouse; a magazine or storehouse.

Some sheep were procured, and from an aimacen distart about a mile inland, other articles.

Geog. Jour. (R. G. S.), XV. 604.

almácigo (äl-mä'thē-gō), n. [Sp. mastic.] The West Indian birch, Terebinthus Simaruba, one of the commonest and most characteristic trees of Porto Rico. Its wood is soft and of little value. See cachibou, and West Indian birch, under birch. [Porto Rico.]

birch, under birch. [Porto Rico.]

almagrerite (al-ma-grē'rīt), n. [Sp. Almagrera (see def.) + -ite².] Anhydrous zinc sulphate, occurring as a natural mineral in the Sierra Almagrera in Spain. Also *zincosite.

almandite (al'man-dīt), n. Same as almandin. almasca (al-mas'kā), n. A soft gray resin soluble in chloroform, ether, and absolute alcohol: probably derived from Icica heptaphylla. Thorpe, Dict. Applied Chem., I. 61.

almeidina (al-mā-dē'nā), n. [Pg., from the name of the first exporter of the product, João Duarte de Almeida.] The commercial name for a rubber adulterant obtained from the latex of Fockea multiflora and Euphortia rhipsaloides. of Fockea multiflora and Euphorbia rhipsaloides.
It is exported from Angola, and comes into commerce in
the form of dry, somewhat brittle balls about as large as
the fist and almost white in color.

the fist and almost white in color.

almendor (äl-mān-dōr'), n. [Brazilian.]

Geoffræa superba, a tree of the bean family
common in Brazil and Venezuela. Its fruit is
about the size of a walnut, with a greenish-yellow downy
rind and a fieshy pulp inclosing a hard, nut-like seed.
The fruit is boiled and used as food by the Indians, and
the kernel is also eaten. The tree yields a fine, hard
wood. In northern Brazil the Indians (Tupi) call it mark.

[Brazil.]

almendro (al-men'dro), n. [Sp. almendro, almond-tree: see almond.] A name applied in Guam, the Philippines, and Porto Rico to Terminalia Catappa, the nuts of which somewhat resemble almonds in shape and flavor. See Terminalia², and country almonds, under almond almond.

almond.

Almen's solution. See *solution.

Almen's solution. See *black.— Dika almonds the seeds of a large tree, Irvingia Gabonensis, of tropical West Africa. They are rich in mucilage and fat, and when roasted are used for food. See dika-bread and Irvingia.—Hard-shell almond, a type of sweet almond having a nut sometimes as hard as a peach-stone, little valued except as a stock.— Malabar almond. Same as country almond (which see, under almond).— Paper-shell almond, a thin-shelled type of sweet almond, of the highest commercial grade. It includes a false variety with a double shell.—Soft-shell almond, the ordinary commercial almond exclusive of the paper-shell. There are all gradations of hardness in almond-shells.— Tropical almond, a common name for Terminalia Catappa. Also Demerara almond.

almond-butter (& mond-butt'er). N. Same as

almond-butter (ä'mond-but'er), n. Same as almond-paste

almond-meal (ä'mond-mel), n. The cake left from almonds, after the oil has been removed

by pressure, coarsely ground.

almond-oil, n.—Artificial bitter-almond oil, nitrobenzeue (CaHaNO2), a yellow liquid with a smell like that of bitter almonds, sometimes used in perfumery. Same as mirbane oil.

almondy (\ddot{a} 'mon-di), a. [almond + -y¹.] Like almonds in taste or fragrance. Lyell, Life, ii. 132. N. E. D.

alnein (al'nē-in), n. [L. alneus, adj., < alnus, alder, + -in².] A coloring matter extracted from the bark and wood of the alder, birch, and beech. It produces colors varying from yellow to brown-black.

Initamian (al-ni-tă'mi-an), a. and n. I. a. Noting stars whose spectrum is of the type of that of Alnitam. They are characterized by the predominance of hydrogen lines of the Huggins series (with fainter Pickering lines), strong helium, protosilicon, and a line of unknown origin in the cyan-blue having $\lambda = 4649.2$.

= 4649.2. II. n. An Alnitamian star.

alnoite (al' $n\bar{\phi}$ -it), n. [Al $n\bar{\phi}$, an island of Sweden, +-ite².] In petrog., a name proposed by Rosenbusch (1887) for an igneous rock having the mineral composition of melilite-basalt, but occurring in dike form. It may also be considered as an olivin-rich biotite-monchi-

Alocasia (al-ō-kā'si-ā), n. [NL., appar. arbitrarily varied from Colocasia.] A genus of stove foliage plants of 20 or more species be-

stove foliage plants of 20 or more species belonging to the family Araceæ, natives of tropical Asia and the Malayan Islands. Closely allied to Colocasia. See cut under *ape², 2. aloed (al'od), p. a. 1. Flavored with aloes; mixed with aloes; bitter: as, "death's aloed portion," Felltham.—2. Shaded with or formed of aloes: as, "the aloed porch," Browning, Men and Women, ii. 30.

Obtic, a.—Alostic acid, tetranitroanthraquinone, $_{14}H_4O_2(NO_2)_4 + H_2O(?)$. It is prepared by treating ones with nitric acid and is a tetrabasic acid. aloëtic,

aloes with nitric acid and is a tetrabasic acid.

aloft, adv.—Aloft there! the hail used to call the attention of the men who are aloft in the rigging or on the yards or in the tops.—Lay aloft!(naut.), an order to the seamen to mount the rigging for the execution of some piece of work in the tops or on the yards.—Lay down from aloft!(naut.), a command for the seamen to cease work in the upper rigging and to descend to the deck.

work in the upper rigging and to descend to the deck.

alogia (a-lō'ji-ä), n. [NL.: see alogy.] In pathol., aphasia due to ideational defect.

aloja (ä-lō'hä), n. [Sp., a beverage made of water, honey, and spices.] A fermented beverage made from the sweet pods of several leguminous trees. In Argentina those of the algarroba, Prosopis alba, and the chañar, Gourliea decorticans, are used. See *chañar. [South America.] South America.]

Alonsoa (a-lon'sō-a), n. [NL., from Z. Alonso, a Spanish officer.] A genus of very tender tropical, American, annual plants of the family

a Spanish officer.] A genus of very tender tropical, American, annual plants of the family Scrophulariaceæ. The cultivated species come mostly from Peru and Mexico. There are 6 distinct species and varieties; some authors, however, differ with regard to the number. These plants are cultivated in the open and very rarely in pots. A. incisiotia, A. Warsceviczii, A. marrifolia, and A. linifolia are the species most commonly used. The seeds are sold by most seedsmen.

Alopecia dynamica, loss of hair due to destruction of the hair-follicles by ulceration, induration, or some other pathological process.—Alopecia mailigna, a severe and intractable form of alopecia.—Alopecia neuritica, loss of hair over the area of distribution of an injured nerve.—Alopecia neurotica, loss of hair accompanying one of the infectious disease, such as typhold fever: supposedly due to the action of the toxins of the disease.—Alopecia universalis, the falling of hair from the face and body as well as from the scalp.

alopeke (a-lop'ē-kē), n. [Gr. ἀλωπεκῆ, Attic contraction of ἀλωπεκέη, a fox-skin, lonic fem. of ἀλωπεκειος, adj., ⟨άλωπηξ, a fox.] An ancient Thracian head-dress of fox-skin.

alorcia (a-lor'sik), a. [al(oes) + orc(in) + -ic.]

Noting an acid, $C_9H_{10}O_9 + H_2O$, formed in small amount by fusing aloes with sodium hydroxid. It crystallizes in needles which, when dry, melt at 115° C.

alorcinic (al-ôr-sin'ik), a. [al(oes) + orcin +

-ic.] Same as *alorcic.

alouette (al-ö-et'), n. [F. alouette, a lark, < OF. alouete, dim. of aloue, < L. alauda, a lark.]

A device for inducing sleep by tiring the eyes by a pencil of light reflected from a series of revolving mirrors.

revolving mirrors.

aloxanthin (al-ok-zan'thin), n. A compound formed by oxidizing barbaloin and socaloin. It is probably tetrahydroxymethylanthraquinone, C₁₄H₃-(CH₃)(OH₃C₂. It consists of orange-colored needles which melt at 260°-265° C.

which melt at 260°-265°C.

Aloysia (al-ō-is'i-ä), n. [NL., from a personal name.] A subgenus of plants, of the large genus Lippia, which contains the commonly known lemon verbena (L. citriodora). The lemon verbena is easily grown in common greenhouses. In the South it may be grown in the open. It is a low-growing, tender shrub, with long, narrow, pointed leaves, native to South America.

alpargata (al-pär-gä'tä), n. [Sp.] In Spanish-speaking countries, a kind of sandal or low shoe with a hemp or rush sole and cloth upper.

alpargata (al-pär-gä'tä), n. [Sp.] In Spanishspeaking countries, a kind of sandal or low shoe
with a hemp or rush sole and cloth upper.

alpha, n. 4. [cap.] The name given by Carl
Neumann, the mathematical physicist, to a
supposed body to which all motion, especially
motion of rotation, is relative. It has been said that
Newton originated this idea, but that is incorrect. Newton believed that space is a really existing thing, and
he suggested that there might possibly be a body which
is really in absolute rest relatively to real space. The
conception of the body Alpha, which was originated by
Neumann, arose, on the contrary, from a difficulty which
the theory of Leibnitz (that space is not an existent thing,
but is merely an image embodying certain general laws
of the relations between things) meets in the circumstance that, according to the accepted doctrine of Newton's
three laws of motion, motion of rotation (as it is ascertained, for example, by Foucault's pendulum experiment) is absolute and not merely relative motion. Neumann, and others who accept Leibnitz's theory of the
entire relativity of space, seek to explain rotation by
supposing that there is a body Alpha, which is not indeed
absolutely at rest, as Newton thought it possible that
some body might be (since these persons are of opinion
that absolute place and absolute motion are phrases
without meaning), but which is the body to which the
motion spoken of in the three laws of motion ought to be
understood to be relative. Ernst Mach undertakes to
show that this body Alpha is really the universe as a
whole, which virtually comes to saying that it is the
starry heavens as a whole. The objection to this is that
it makes objects the most remote from any given body
the principal factors which determine the motions of
that body. Now, according to that epistemological psychology which makes space an image embodying the
laws of the relations of things, this image must be supposed to be so constituted as to make those things which
principalli

tion are concerned, we have only to assume, as a definition, that rotation is relative to lines of force fixed within a body having no dynamic effects of rotation.— Alpha paper. See *paper.—Alpha rays. See *ray!.

Alphabet of thought, a list of simple ideas by the combination of which it was supposed by Raymond Lully, the youthful Leibnitz, and perhaps by Spinoza, that knowledge could be manufactured.— Blind alphabet, See *braille.—Deaf-and-dumb alphabet, the conventional signs or finger-gestures used by the deaf and dumb in lieu of speech. See *deaf-mute.— Missionary alphabet, a regulated form of the Roman alphabet used by missionaries in writing the unwritten or imperfectly written languages of the peoples among whom they work. About 1830 English and American missionaries adopted a scheme, substantially that put forth by Sir William Jones in 1731, for the transliteration of Asiatic languages, based upon the Roman or Continental values of the yowels. This was extended by conferences of scholars held in 1854 and later. The first definite result was the publication of Lepsius's "Standard Alphabet" (1855. second edition 1863), and of F. Max Müller's "Church Missionary Alphabet," in effect a recension of Lepsius's scheme. This Lepsius-Müller alphabet has been applied to the recording of many hitherto illiterate languages, and, in one form or another, is used by missionaries throughout the world. It promises, in the more scientific form now being worked out in successive recensions by philologists, to become the general phonetic alphabet of the world. See *philological *alphabets.—Philological alphabets. modern phonetic forms of the Roman alphabet as enlarged, regulated, and controlled for philological purposes. Conspicuous philological alphabets enlarged, regulated, and controlled for philological alphabets. modern phonetic forms of the Roman alphabet as enlarged, regulated, and controlled for philological alphabets. "1875) associated with the names of Slevers, Vietor, Fricke, Storm, Jespersen, and Passy and the

ALPHABET OF THE AMERICAN PHILOLOGICAL ASSOCIATION.

VOWELS SHORT.

			-	
Form.		Name.		Sound as in
I	i	i	(1)	it (it)
E	e	е	(8)	met (met)
A	8		(d)	at (at)
α	a	α	(ah)	ask (ask)
Θ	0	0	(Ø)	not (net), what (hwet)
0	0	0	(oh)	obey (obě)
U	U	U	(ŭ)	but (but)
u	u	u	(ob)	full (ful)
			LO	NG.
Form.		Name.		Sound as in
Ī	1	ī	(66)	pique = peak (pic)
ĒĀ Ā	ē	ē	(ay)	they (dhē), veil (vēl)
Ā	ā	Ā	(ai[r])	air=ere=heir (år)
a	ā	đ	(ah)	arm (ārm), far (fār)
ð	8	8	(awe)	nor (něr), wall (wěl)
Ō	ō	ō	(oh)	no (nō), holy (hōli)
Ū	Ð	Ū	(u[r])	burn (būrn)
Ū	ũ	ũ	(00)	rule (rûl), ooze (ûz)
			DIPHTE	IONGS.
aı	ai ·	ai	(eye, I)	aisle=isle (ail)
ατ	au	αu		out (aut), our=hour (au
ΘI	ei	ei	(oi)	oil (eil), boy (bei)
IU	iu	iu		feud (flud), few (flu)
			CONSON	I A NITS

CONSONANTS.

pet (net)

tip (tlp)

chest (chest)

SURD. pi (vee)

chi (chee)

CH ch

C(K) c(k)	cī (kee)	coms (cūm)
F f	ef (<i>eff</i>)	fat (fat)
TH th	ith (ith)	thin (thin)
8 s	es (ess)	sow (sôn)
SH sh	ish (ish)	she (shi)
H h	hi (hee)	he (hi), hat (hat)
	SONA	ANT.
B b	bī (bee)	bet (bet)
D d	dī (des)	dip (dip)
Jј	jē (jay)	jest (jest)
G g	gi (ghee)	gum (gōm)
V v	vī (vee)	vat (vat)
DH dh	dhi (thee)	thee (dhī)
Z z	zi (zee)	zone (zŏn)
ZH zh	zhi (zhee)	azure (azhūr)
w w	wū (1000)	we (wi), wit (wit)
Ll	el (ell)	lo (lō), ell (el)
R r	ār (ar)	rat (rat), are (ar)
Y y	yi (yee)	ye (yi), year (yir)
M m	em (<i>em</i>)	me (mi), my (mai)
N n	en (en)	no (nō)
NG ng	ing (ing)	sing (sing)

Phonetic alphabet, an alphabet in which each character represents a definite sound, and which is so used that the pronunciation of each word can, within narrow limits, be known with certainty by any one who knows the alphabet. The Roman alphabet, like its original the

alsike

Greek, was originally phonetic, and as used in modern times (in Italian, Spanish, Portuguese French, English, German, etc.) is still fairly phonetic. French has deviated most in the consonant system, allowing or requiring the extensive suppression of consonants in utterance, and English most in the vowel system, the whole series of English long vowels having been thrown into hopeless confusion. The most conspicuous instance of a highly phonetic and classified alphabet long in actual use is the Sanskrit, which was reduced to its present order by native grammarians about the second century A. D., on much the same lines as those on which scholars are now endeavoring to establish a classified reconstitution of the Roman alphabet.—Physiological alphabet, the elementary sounds of human speech.—Scientific alphabet, an alphabet based upon scientific principles; one which embodies phonetic precision and sufficiency. Perhaps the only alphabet fairly entitled to this designation is A. M. Bell's 'visible speech' (1867), which takes account of all distinguishable vocal sounds, including whispering, sneezing, coughing, chuckling, etc., and provides for each sound a symbol whose form is significant and thus in a way makes the intended sound obvious er 'visible' to the reader. In a laxer use, the term has been applied to the philological alphabets based upon the historic Roman alphabet. These are used with a tolerable degree of precision and uniformity, and, compared to the traditional alphabets as conventionally used, are fairly scientific. See philological *alphabets*.

alphabetist (al'fa-bet-ist), n. [alphabet + -ist.]
A student or a deviser of alphabets. S. S.
Haldeman, Analyt. Orthog., ii. 22.
alpha-naphthol(al-fa-naf'thöl), n. A naphthol

having the hydroxyl-group in the alpha position.

alpha-naphthylamine (al'fa-naf'thil-am'in),

n. Naphthylamine in which the amido-group

alpha-naphthylamine (al'fa-naf'thil-am'in),

n. Naphthylamine in which the amido-group
is in the alpha position.

Alphastes (al-fes'tēz), n. [NL., ⟨Gr. ἀλφηστής,
a kind of fish.] A genus of sea-bass allied to

Epinephelus, of the family Serranidæ.

alphogen (al'fō-jen), n. Same as *alphozone.

alphogen (al'fō-zōn), n. [Sp. Alfonsino.] A

Spanish gold coin of the reign of Alfonso XII.,
worth 20 pesetas or \$3.86.

alphozone (al'fō-zōn), n. A white crystalline
compound, C₈H₁₀O₈, obtained by the action
of hydrogen peroxid on succinic anhydride;
disuccinic peroxid. It is a powerful germicide. Also called alphogen.

alphyl (al'fil), n. A name proposed by Bamberger to designate an aromatic radical, as
phenyl, C₆H₅. Such radicals are nownore often called
aryis, while aliphatic radicals, as methyl, CH₃, are sometimes called alphyls; but the latter are more properly
called aliyis, and the name alphyl has become superfluous
alphylate (al'fi-lāt), v. t.; pret. and pp. alphylated, ppr. alphylating. [alphyl + -ate².] To
introduce an alphyl into (an organic compound). Amer. Chem. Jour., April, 1903.

alpine, a. 2. [cap.] In anthrop., noting the
type of the European race which inhabits the
Alps and the regions east and west of the Alps:
characterized by a broad, short head broad

Alps and the regions east and west of the Alps: characterized by a broad, short head, broad face with full chin and heavy nose, medium stature, and prevalently grayish eyes and brown hair. Also called Cetto-Slavic, Sarmatian, Arvernian. Ripley, Races of Europe, p. 123. 123.—Alpine blue, diluvium, glacier. See *blue, etc.—Alpine hat, a soft felt hat with a deep dent in the crown and rolled brim: originally a traveling-hat, and used in mountain-climbing, whence the name.—Alpine security.

used in mountain-climoing, whence the name.— alpine granite. See protogine.

Alpinia (al-pin'i-ā), n. [NL. from Prospero Alpino, an Italian botanist.] A genus of stove herbs of the family Zinziberaceæ, cultivated for both the foliage and the racemes or panicles for both the foliage and the racemes or panicles of flowers. There are about 60 species of this genus found in tropical and subtropical Asia, the islands of the Pacific Ocean, and Australia. The species most commonly cultivated is A. nutans, a plant with very beautiful foliage, sometimes known as the shell-flower.

alpinin (al'pi-nin), n. [(†) Alpine + -in².] A substance prepared from galangal root, since shown to be a mixture of galangin and campharid

pherid.

Alsace gray, green, etc. See *gray, *green1,

Alsatian clover. See *clover.

alsbachite (alz'ba-kīt), n. [Alsbach. a stream on Mount Melibocus, Odenwald, Baden, + -ite².] In petrog., the name given by Chelius (1892) to a variety of granite-porphyry poor in ferromagnesian minerals and rich in pink garrett comming on the clean of Mount Melib net, occurring on the slope of Mount Melibocus.

Alsidium (al-sid'i-um), n. [NL. (C. A. Agardh, 1827), said to have been formed (if so, irregularly) \(\rac{Gr. \(\delta \lambda i \)}{\rac{Aic}{\chi}}, saltness, or \(\alpha i \chi, \) said, + -idium.]

A genus of red seaweeds containing the species of Helminthechestes or Consistent more more A. Helminthochortos, or Corsican moss, used in medicine.

alsike (al'sik, Sw. äl'si-ke), n. [Prop. Alsike clover, named from (Sw.) Alsike near Upsala in Sweden.] A species of clover (Trifolium hybridum) native to Europe, much grown in the United States for forage. It thrives best

Alstromeria (al-strē-mē'ri-ä), n. [NL., from a personal name.] A genus of cool-house and stove plants, members of the family Amaryllidaceæ, with tuberous roots, treated as bulbs. The species most common in the United States are natives of Brazil, Peru, Chile, and Mexico. A. Pelegrina is best adapted for greenhouse purposes. In all there are about 50 described species, found in the tropical and subtropical regions of South America.

tropical regions of South America.

Altamaha grits. See *grit2.

altar-book (âl'tär-buk), n. Same as missal.

altar-boy (âl'tär-buk), n. A boy who serves a priest while he is officiating at the altar.

altar-mound (âl'tär-mound), n. A mound of earth erected over an altar of clay on which sacrifices were burned. Altar-mounds have been discovered principally in Ohio.

alteratio (al-te-ra'shi-ō), n. [NL.: see alteration.] In mensural music, the regular doubling of the time-value of a note in certain relations. The rules governing this were complicated and

The rules governing this were complicated and arbitrary.

Altered chord, note, or triad, in music, a chord, note, or triad affected by an accidental and thus changed in character or significance.

alteregoism (al-ter-ē'gō-izm), n. [L. alter ego, 'another I,' + -ism.] A narrow altruism amounting merely to sympathy with persons who are in one's own case. Amer. Jour. Psychol.,

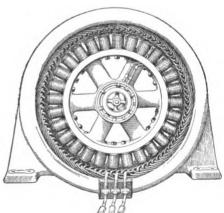
alteregoistic (al-ter-ē-gō-ist'ik), a. Of or per-

Alternaria (al-ter-e-go-ist ik), a. Of or pertaining to alteregoism.

Alternaria (al-ter-nā'ri-ā), n. [NL. (Nees von Esenbeck, 1816), (L. alternus, alternate, +-aria.] A genus of hyphomycetous fungi doubtfully distinct from Macrosporium. The condia are dark-colored, are both transversely and longitudinally septate, and are borne in chains. A. Brassica occurs on the cabbage and cauliflower.

alternate a. 4. In elect., same as *alternat-

alternater, alternator (al'ter-nā-ter,-tor), n. In elect., an alternating-current dynamo or genorator. It consists of an armature in which electric power is produced and a magnetic field which produces the magnetic flux acting upon the armature. According to their construction, alternaters are: (1) revolving armature alternaters, having the magnet field stationary and the armature revolving; (2) revolving field al-



Revolving Field Alternater.

ternaters, having the magnet field revolving and the armature stationary; (3) inductor alternaters, having the field colls and armature stationary and the iron core revolving; (4) induction or asynchronous alternaters, that is, induction notors running as generators above synchronism. See *induction generator.—Compensated alternater, an alternater in which the armature reaction is compensated by a compensating *exciter* (which see) and the voltage thereby maintained irrespective of load or character of load, that is, power-factor.—Inductor alternater, in elect, an alternating-current generator, in which field and armature windings are stationary, and only a toothed iron structure revolves.

in moist land. It is a tall, weak-stemmed branching species, with small whitish heads which become pink. It is sometimes known as Suechish clover.

Alsine (al'si-nē), n. [NL. (Linnœus, 1753), Gr. à\lambda alternating, current is a current to the family Silenacex. See Stellaria.

alstonidine (al-stō'ni-din), n. [Alstonia (see def.) + -id + -ine².] An alkaloid, C21H20N2O4+3½H2O, found in the bark of Pala (Alstonia) constricta. It erystallizes in needles which melt at 181° C.

alstonine (al'stō-nin), n. [Alstonia (see def.) + -ine².] An alkaloid, C21H20N2O4+3½H2O, found in the bark of Pala (Alstonia) constricta. It is amorphous and was formerly called chloregenin. direction in such a manner that the total effect in one direction is the same as in the opposite direction. An alternating current is a current consisting of a series of half-waves of equal duration and equal intensity but opposite direction. One half-wave is called an alternation, two successive half-waves, or at complete wave, a cycle. The number of cycles per second is the frequency. Commercial frequencies are 25, 60, and 125 cycles per second. Since the alternating current varies from instant to instant, the square-root of the mean square of the instantaneous values is commonly employed and called the effective value of the alternating current, since it represents the effect or power of the latter. Under alternating current, alternating electromotive force, etc., usually the effective value is understood. If the successive half-waves gradually decrease in intensity, the current is called an oscillating current. Oscillating currents usually have frequencies of hundred thousands and millions of cycles per second. They are produced by condenser discharges and are used in wireless telegraphy, etc.—Alternating group. See *group1.—Alternating motion. See *motion.—Alternating symmetry, in crystal. See *symmetry.

alternation, n. 5. In phytogeog., the discontinuous occurrence of a plant type due to local variations in the conditions. See the extract.

The term alternation is used to designate that phenomenon of vegetation in which a formation recurs at different places in a region, or a species at different points in a formation.

F. E. Clements, Bot. Surv. Neb., VII. 168.

6. In elect., the time of one reversal, or one half-wave of alternating current. One alternation therefore is one half-cycle. The frequency of an alternating current formerly was given in alternations per minute. See **alternating.—Antithetic alternation of generations, the alternation between a sexual generation and an asexual generation which is unlike it in form or structure or in both; metagenesis. Energe. Brit., XXXII. 214.—Homologous alternation of generations, the alternation of a sexual generation with an asexual generation similar to it in appearance. 6 In elect. the time of one reversal, or

Homologous alternation is illustrated by many Alges and Fungi where offspring of similar appearance are produced in two different ways, either vegetatively or sexually,

alternative I. a.—Alternative inheritance. See **inheritance.

with n in nlvanic currenta

galvanic currents.

alternativity (al-ter-na-tiv'i-ti), n. [alternative + -ity.] The power of choosing between two alternatives, as between two courses of action; decision of character. By some writers confused with the power of ethical self-control or moral inhibition.

alternativo (äl-ter-nä-te'vō), a. [It.] In music, noting a movement or section which alternates with another or is set in contrast with it.

with another or is set in contrast with it.

alternator, n. See *alternater.

althionic (al-thi-on'ik), a. [al(cohol) + Gr. θείου, sulphur, + -n + -ic.] Derived from alcohol and sulphur.—Althionic acid, an old name, no longer used, for ethyl-sulphuric acid.

altho, conj. A simplified spelling of although.

Alticus (al'ti-kus), n. [NL., prop. Halticus,
 Gr. ἀλτικός, good at leaping, ⟨άλλεσθαι, leap.]

A genus of blennies similar to Salarias. A. saliens lives on lava-rocks about the reefs in the South Seas, lurking out of water and leaping like a lizard when disturbed. It is black in color and about 4 inches in length.

altilik (äl'ti-lik), n. [Turk. *altilik, < alti, six, +-lik, adj. suffix.] The Turkish six-piaster piece. altimetric (al-ti-met'rik), a. Same as *altimet-

He proposed to carry a chain of altimetric observations to Kara-koshum and Chaklik.

Geog. Jour., (R. G. S.), XVI, 472.

altimetrical (al-ti-met'ri-kal), a. [altimetry + -ic-al.] Relating or pertaining to altimetry, or the measurement of heights. Blount. altimetrically (al-ti-met'ri-kal-i), adv. As re-

gards the measurement of heights.

altinichlic (äl-ti-nik'lik), n. [Turk. altin, a gold coin.] A Turkish silver coin, the one-piaster piece, which has a legal weight of spain.

piaster piece, which has a legal weight of 18.557 grains and a varying value.

altist (alt'ist), n. [alt(o) + -ist.] In music, one who sings the alto part.

Attitude circle. See *circle.—Altitude motion, the motion of as instrument when it turns on a horizontal axis. See *scatant.—A. M. altitude, the sextant sight measured in the morning by the navigator for the purpose of obtaining a base from which to calculate the longitude of the vessel.—Double altitude, the angle between an object and its reflection in an artificial horizon (ordinarily a trough of mercury). Such angles are usually measured with a sextant by an observer on land.—Observed altitude, the angular height of a heavenly body from the horizon, as measured on the sextant, or other nautical instrument of reflection, or the sextant altitude before corrections for semi-diameter, parallax, dip of the horizon, and refraction are applied.—P. M. altitude, the sextant sight measured in the afternoon by the navigator for determining the ship's meridian.



(From a phototype by J. Vincent.)

cumulus, appearing in small masses. bright on the sunny and shaded on the opposite side; in the older terminology, a cumulo-cirrus. They are frequently arranged in rank and file, generally disappearing in the sunshine, and are then indicative of dry, pleasant weather. Sometimes this little cloud has a definite structure as a vortex-ring.

alto-nimbus (al-tō-nim'bus), n.; pl. alto-nimbis (-bi). [L. altus, high, + nimbus, cloud (see nimbus).] A cloud from which rain falls after it is completely developed, but which in its first stages is seen to be a dull-colored cloud at the summit of a mass of air flowing in under

at the summit of a mass of air flowing in under an advancing cumulus or cumulo-nimbus. Similar clouds of much greater extent are formed when broad sheets of air, blowing from the southwest, approach near a storm-center and begin to form clouds before reaching the rain region.

alto-stratus (al-tō-strā'tus), n.; pl. alto-strati (-ti). [L. altus, high, + NL stratus.] 1. A thin horizontal sheet of clouds, usually disappearing slowly: apparently a lower layer of what under favorable circumstances might have been a cumulus cloud. The outer surface. have been a cumulus cloud. The outer surface, melting away at sunset, gives rise to beautiful sunset cloud-colors by reflection of light from the sun or the sky beyond the western horizon.

—2. A rather high cloud covering the sky as a layer whose lower surface is horizontal. The extreme boundaries of such an alto-stratus

altro-nutrition (al'trō-nū-trish'on), n. [Irreg. \(\) L. alter, other, + nutrition. \(\) Nutrition carried over to another: applied in the quotation to reproduction viewed in its social and ethical consequences.

Reproduction is therefore not only ultra-nutrition, in going beyond the individual, but it is altro-nutrition, in carrying the process to and into another. It is, as we shall see, the beginning of altruism.

Ward, Pure Sociol., p. 291.

altrotelic (al-tro-tel'ik), a. See the extract.

The few years of schooling is only the very end of a process that, in a sense, has run through eons. The school merely puts on the final touches. . . . Letourneau speaks of apontaneous and organic training. Nature first adjusts the body to the physical environment; then the social adjustment marks a ligher stage. Heredity is stored up experience. The second stage or division of education we may call . . . artificial or telic. Art is here teleological control of nature; if it is directed by another it is adtrottic; and when it becomes subjective it is autotelic. The telic aspect begins when we enter the social sphere. G. S. Hall, Adolescence, II. 447.

altruistic, a. 2. Pertaining to that theory of ethics which regards altruism as the highest

span.
aluff (a-luf'), adv. Naut., of sails, in the position when the helm is put down, or alee, so that the vessel is thrown up into the wind and the sails shake or slat.

the sails shake or slat.

alum, n.—Alum bath, a saturated solution of potassium alum. It is used in photography to check the frilling of plates or the blistering of paper.—Alum schist. Same as alum shale.—Forous alum, the trade-name of aluminium sulphate obtained by evaporation of its solution and to which, just before solidification, a small quantity of sodium carbonate is added with stirring of the pasty mass. The evolution of carbon-dioxid gas in bubbles puffs up the material to a spongy condition, which becomes permanent on setting.

alum-cake (al'um-kāk), n. The dried mass left after the treatment with strong sulphuric acid of kaolin or fairly pure clay which has

been roasted. It consists essentially of aluminium sulphate, but includes, mixed with it, the silica derived from the clay. Also atum-day cate.

alum-earth, n. 2. A loose clay containing iron pyrites from which alum may be made. It often occurs with beds of lignite, and usually contains rather less silica than the more compact alum slate.

alumian (a-lū'mi-an), n. [alumi(um) + -an.] A doubtful aluminum sulphate (perhaps Al₂-S₂O₀) found in Spain.

Alumina cream, freshly precipitated aluminium hydrate held in suspension in water.

Aluminia cream, freshly precipitated aluminium hydrate held in suspension in water.

**Aluminium, **A. Aluminium melts at 654.5' C., and the tensile strength of bars made of it is about 28,000 pounds a square inch. The commercial production of the metal began about 1888, the process most largely used, as at Pittaburg and Niagara, being that of Hall, in which anhydrous alumina from bauxite is dissolved in a bath of fused cryolite in the presence of carbon and electrolyzed by a current of 6 or 7 voits and 7,000 amperes. The price has been brought down from \$15 to 30 cents a pound, and the annual output increased from 3 to many thousand tons per annum. The only moderate strength of the metal, certain difficulties in working it (as, for instance, in soldering), and its chemical alterability under some conditions have tended to limit its applications. Among the more recent uses made of it may be mentioned the etching of designs for theatrical and other posters, substitution for copper in wire for the transmission of electric currents, the manufacture of a silver-like paint from the powder, and the production of a very high temperature by rapid combustion of the powder in admixture with sodium dioxid. See *aluminothermics.—Aluminium brass, an alloy of aluminium, zinc, and copper produced either by introducing metallic aluminium into melted brass, or by introducing zinc into melted aluminium bronze. The proportion of aluminium varies from 1 to 5.8 parts, that of copper from 55.8 to 77.5, and that of zinc from 21 to 43. The metal is very ductile and malleable, and its tensile strength is far above that of ordinary brass.—Aluminium hypochhorite. A solution of this sait prepared by the interaction of solutions of bleaching-powder and aluminium sulphate, although the propersion of paper stock, but it may also be used as a preservative and disinfectant and in mordanting cloth for dyeing.—Aluminium processes. See *process.—Aluminium processes. See *process.—Aluminium scell, argely used in solution as a mordant in dyeing.—Al

aluminize (a-lu'mi-niz), v. t.; pret. and pp. aluminized, ppr. aluminizing. [L. alumen (alumin-) + -ize.] To apply alum or a sait of alu-

minium to (a material, as cloth).

alumino. A combining form (with silicate, phosphate, etc.) of aluminum, aluminium. The feldspars are all aluminosilicates.

aluminoferric (a-lū'mi-nō-fer'ik), a. See the

following.—Aluminoferric cake, the trade-name for aluminium sulphate when it contains a considerable quantity of ferric sulphate derived from iron occurring as an impurity in bauxite or chifa clay.

aluminol (a-lū'mi-nōl), n. [alumin(ium) rate of aluminium, $Al_2(C_{10}H_5OH(SO_3)_2)_3$. It combines the astringency of alum with the antiseptic power of naphthol.

aluminothermic (a-lū'mi-nō-ther'mik), a. Pertaining to or produced by aluminothermy; producing high temperatures by the combustion of finely divided metallic aluminium. Elect. World and Engin., Feb. 13, 1904.

aluminothermics (a-lū'mi-nō-ther'miks), [aluminium + thermics.] A collective name for the processes in which high temperatures are the processes in which high temperatures are produced by the chemical combination of alveololingual (alve \tilde{v} - \tilde{v} -l \tilde{v}

other very important application of the aluminothermic process is to welding. In this thermit (which see) is piaced in a specially prepared crucible of refractory material and the reaction is started by means of an igniter. The fluid mass of iron produced is poured into a mold placed around the joint to be welded. This process is especially useful for welding conductor-rails, defective castings, and parts of broken machinery which must be repaired at the places where they are in use. When the aluminothermic process is used for the separation of metals, an important by-product is formed, namely, the melted aluminium oxid or alumina. It is an artificial corundum and has been called corubis. Its uniform hardness makes it far superior to natural corundum or emery for grinding and polishing purposes. A great obstacle in the way of the use of aluminothermic processes has been the lack of some means of starting the reaction, which requires a high temperature. Dr. Goldachmidt accomplishes this by using an igniter consisting usually of a readily reducible oxid, such as barium peroxid, mixed with finely powdered aluminium. The reaction of this mixture may be started by means of a match. A pinch of this mixture placed upon the thermit or other aluminothermic mixture will serve to start the reaction. Once started, the main reaction will propagate itself, since the temperature produced is probably above 2000°C., and higher than can be obtained in any other artificial way except by the electric arc.

aluminothermy (a-lū' mi-nō-ther'mi), n. [NL. aluminum + Gr. #hour heat 1 Same as *zaluminishemic mixture will represent the started the second aluminum + Gr. #hour heat 1 Same as *zaluminishemic mixture will represent the second aluminum + Gr. #hour heat 1 Same as *zaluminishemic mixture will represent the second aluminum + Gr. #hour heat 1 Same as *zaluminishemic mixture will represent the second aluminum + Gr. #hour heat 1 Same as *zaluminishemic mixture will represent the second aluminum + Gr. #hour heat 1 Same as *zaluminish

aluminothermy (a-lū'mi-nō-ther'mi), n. [NL. aluminum + Gr. θέρμη, heat.] Same as *aluminothermics.

alum-meal (al'um-mēl), n. Alum as obtained in small crystals, at its first crystallization, by rapid cooling, with agitation, of a hot solution. slundum (a-lun'dum), n. [L. al(ius), other, + (cor)undum.] An artificial abrasive made in an electric furnace and used as a substitute for corundum.

alurgite (a-ler'jit), n. [Gr. αλουργής, purple (lit. 'wrought in the sea,' with reference to the genuine purple dye from the purple-fish as distinguished from imitations made on land, $\langle \hat{a}\lambda \xi, \text{sea}, + \hat{\epsilon}\rho\gamma\sigma\nu, \text{work} \rangle, + -i\epsilon^2$.] A manganese-mica, varying from purple to cochineal red, from St. Marcel, Piedmont.

Alutera (a-lū'te-rā), n. [NL., < L. aluta, soft leather.] A genus of file-fishes remarkable for their leathery skin and lean body: found in tropical seas. A. monoceros is the commonest species.

Alvarius (al-vā'ri-us), n. [NL.] A genus of small darters of the family Percidæ. A. lateralis is found in northern Mexico. Alvarius (al-vā'ri-us), n.

alveate (al'vēāt), a. [L. alveatus, hollowed out like a trough or tray, <alveus, a trough, tray: see alveus.] Same as alveated.

alvelos (äl've-los), n. The milky resinous juice of Euphorbia heterodoxa, indigenous to Brazil: a yellowish-white syrupy substance used in medicine.

alveola (al-vē'ō-lā), n.; pl. alveolæ (-lē). [NL. fem.: see alveolus.] In bot.: (a) One of the pits in a receptacle after the removal of the flowers, especially in the heads of composite (b) A pore in a fungus, as Polyporus. nlants. plants. (b) A pore in a fungus, as *Polyporus*. (c) The depressed perithecium in certain fungi. alveolar, a. 2. In *phonetics*, formed or articulated by bringing the tip of the tongue into contact with the alveolar point of the upper contact with the alveolar point of the upper front teeth, as the consonants t, d, n, l.—Alveolar abscess, a deep-seated gum-boil.—Alveolar angle, in anthrop., the angle formed by the lines drawn from the alveolar point to the basion and to the nasion.—Alveolar hypothesis, the doctrine or opinion that the reticulated appearances in protoplasm are due to the walls of contiguous vesicles or alveoli, and that this foam-like structure is the universal fundamental structure of protoplasm.—Alveolar line, in craniom., the continuation of the lateral margin of the anterior nasal aperture to the anterior fasal spine. Harrison Allen, Jour. Acad. Nat. Sci., X. 418.

alveolar-dorsal (al.vē/ō-lär-dôr/sal). a. Alveo-

Jour. Acad. Nat. Sci., X. 418.

alveolar-dorsal (al-vē'ō-lār-dôr'sal), a. Alveolar and dorsal. Stud. Yale Psych. Lab., X. 105.

Alveolites (al'vē-ō-lī'tēz), n. [NL., < L. alreolus, dim. of alreus, a cavity, + -ites, E. -ite².]

A genus of extinct tabulate corals. They grow in spreading or branching masses composed of contiguous corallites opening obliquely on the surface with semilunar apertures; the septa are represented by rows of spinules and mural pores are present. This coral is very abundant in the Silurian and Devonian.

alveololabial (al-vē'ō-lō-lā'bi-al), a. Pertaining to the lips and to the alveolar processes. alveololingual (al-vē'ō-lō-ling'gwal), a. Pertaining to the tongue and to the alveolar pro-

taining yttrium and probably thorium and other

training yetrium and probably thermal action rare elements: found in Norway.

aly (\hat{a}' li), a. [ale + yl.] Of, pertaining to, like, or characteristic of the use of ale: as, an aly tale; an aly taste; an aly nose.

Alypia (a-lip'i-8), n. [NL. (Huebner, 1825), said to be (Gr. ἀλυπία, freedom from grief.]
A genus of agaristid moths containing several species which inhabit the United States. One of them, A. octomaculata, occurs abundantly in the larval state upon grape-vines, which it injures by devouring the

An abbreviation of American Med-A M A ical Association.

ama-ama (ä'mä-ä'mä), n. [Hawaiian.] Hawaiian name of the common mullet, Mugil cephalus. It is a food-fish of very superior quality, and is reared in artificial ponds in that region.

amacrine (a-mak'rin), a. [Gr. a- priv. + μακρός, long, + ἰς (-ν-), muscle, in pl. fiber.]
Not having long fibers: a term applied to anaxone nerve-cells, sometimes called spongioblasts, found in the inner molecular layer of the retina of the eye.

amaldar, n. 2. In India, an agent or manager; in some districts, a revenue-collector.

Also written amildar.

Amalgamated plates. See *plate.

amalgamating-pan (a-mal'ga-ma-ting-pan'), n. In gold- and silver-milling, a pan-shaped machine with a revolving muller for grinding ores in order to extract the precious metals from the resulting pulp with the aid of mercury. The use of chemicals and heat is sometimes

The use of chemicals and heat is sometimes required, especially for silver ores.

amalgamation, n.—Barrel amalgamation, a process of amalgamation in which the ore to be treated is charged into revolving barrels and there the precious metals are united with mercury. In the United States the barrel-process has been replaced by the pan-process, while in Europe and in South and Central America it is still in use.—Kröncke's process of amalgamation, a Chilean amalgamation process, in use since 1862, adapted chiefly for ores from the deeper workings, which carry, besides some native silver and chlorid, much argentite, proustite, pyroargyrite, and polybasite. The active reagent is a hot solution of cuprous chlorid which is prepared separately. The operation is carried on in rotating wooden barrels, and lead or zinc is employed as a means of decomposing the calomel.—Raw amalgamation, the amalgamation of silver ore without a preliminary chloridizing roast.—Roast amalgamation, amalgamation of silver ore after a preliminary chloridizing roast.

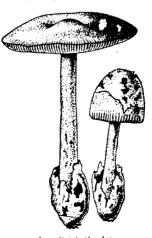
amalic (a-mal'ik), a. [Formation not obvious.]

amalic (a-mal'ik), a. [Formation not obvious.] Noting an acid, C₁₂H₁₄N₄O₈, formed by the oxidation of caffein or theobromine; tetramethyl alloxantin.

Amanist (a-mä'nist), n. [Amana, a group of villages in Iowa (< Amana, a mountain mentioned in Cant. iv. 8), + -ist.] A member of a villages in Iowa (*Amana, a mountain menitioned in Cant. iv. 8), + -ist.] A member of a German religious community properly known as the "True Inspiration Society." It originated as a religious sect in Germany in the seventeenth century, was much persecuted there and elsewhere on the continent of Europe, removed to the United States in 1842, and became communistic. The community settled first at Ebenezer, near Buffalo, New York, but removed, in 1855 and the following years, to Amana, near Cedar Rapids, lowa, where it forms a group of seven villages, engaged in agriculture and manufactures, and sharing things in common under the rule of a president and several trustees elected by the people. Its members believe in the plenary inspiration of the Bible, and make it their sole creed, differing little in their beliefs from Lutherans. They have no rite of baptism, do not believe in eternal punishment, and, like the Quakers, disapprove of war and are non-resistants. They disbelieve in ceremonies and in galety of all kinds, have no clergy, and no preaching except when God raises up an 'inspired instrument,' but all are devout, but all are devout church-goers. See

but all are devout church-goers.

Amanita (am'anī'tä), n. [NL., ⟨ Gr. ἀμανῖται, pl., a sort of fungi.] 1. In mycol., a genus of fungi of the family Agaricaceæ, restricted by recent authors to whitespored species having the stem provided with bothan annulus, or ring, and a



(After figure in Engler and Prantl's "Pflanzenfamilien.")

Over 50 species have been described, a number of which are common and widely distributed throughout temperate regions.—2. [l. c.] A plant of this genus.—Fly amanita, a name frequently applied to Amanita muscaria, a poisonous species.—Orange amanita, a common name for A. exsaria, a large edible species having an orange-colored pileus.—Poison amanita, a name applied to A. phalloides, a white species which is extremely poisonous.

Amanitopsis (a-man-i-top'sis), n. [NL.(Roze, 1879), \langle Amanita + $\delta\psi\iota\varsigma$, view.] A genus of white-spored agarics having a volva but no an-

white-spored agarics having a volva but no annulus. A. plumbea is a common and widely distributed species. See cut on preceding page.

amanous (am'ā-nus), a. [Gr. ā- priv. + L. manus, a hand.] Without hands or manus: sometimes applied to birds. [Rare.]

amaranth, n. 4. Same as purple heart.—5. An acid dyestuff, of the monoazo type, which dyes wool and silk a pure bluish red that is moderately fast to light and milling. It is known by various other names, as azo acid-rubine, Bordeaux S. and fast red.— Amaranth smirt, a tradeby various other names, as azo acid-rubine, Bordeaux S, and fast red.—Amaranth spirit, a tradename for one of the solutions of chlorid of tin used as a mordant in dyeing. These solutions are now much less used than they were before the introduction of the coal-tar dyes.—Low amaranth, one of the tumble-weeds, Amarantus bitoides, of the prairie States resembling A. græcizans, but more spreading. Also prostrate or spreading amaranth.—Rough amaranth, the pigweed, Amaranthus retrofærus.—Bpiny amaranth, a tropical weed, Amaranthus spinous, recently spread in waste places from Virginia to Missouri and southward. It is a stout, bushy species and the stems bear slender spines. Also called careless-weed and red careless-weed.—Bpreading amaranth. Same as spiny kamaranth.—Thorny amaranth. Same as spiny kamaranth.—Thorny amarantite (am-8-ran'tīt), n. [amarant, pro-

amarantite (am-a-ran'tīt), n. [amarant, proper form of amaranth, + -ite².] A hydrous ferric sulphate occurring in slender prismatic crystals and bladed masses of an amaranth-red

color. Also called hohmannite.

amargosa (ä-mär-gō'sä), n. [Sp. amargoso, bitter.] A name in Guam and the Philippines of the balsam-pear and the balsam-apple (Momordica Charantia and M. Balsamina), gourdlike plants with palmate leaves and warty, yellow fruit which bursts open when ripe, displaying the seeds surrounded by a red aril.

paying the seeds surrounded by a red and.

amaric (a-mar'ik), a. [L. amarus, bitter, +

-ic.] Of a bitter nature.— Amaric acid, an acid,

C₂₂H₂₂O₃ + H₂O, formed by boiling benzamarone with

alcoholic sodium hydroxid. It is crystalline and easily

forms an anhydrid.

amaril (am'a-ril), n. [L. amarus, bitter + -il.]
The hypothetical poison of the Bacillus icteroides, regarded by some as the cause of yellow

amaroid (am'a-roid), n. [L. amarus, bitter, + -oid.] A name proposed to designate those bitter substances which have a definite composition but do not belong to one of the recognized classes of compounds such as glucosides or alkaloids.

or alkaloids.

amaroidal (am-a-roi'dal), a. [amaroid + -al.]

1. Somewhat bitter in taste.—2. In pharm., resembling a bitter in properties.

Amasonia (am-a-sō'ni-ā), n. [NL., named for Thomas Amason, an early American traveler.]

A genus of greenhouse shrubs from tropical America, of the family Verboucke: sometimes grown for the long portional hairs, vellow grown for the long, persistent, hairy, yellow flowers. A. calycina is the only common species in the United States. There are about six species, but they are not much known in cul-

amastia (a-mas'ti-ä), n. [NL., ζ Gr. *άμαστία, $\langle \dot{a}\mu a\sigma roc,$ without breasts, $\langle \dot{a}$ - priv. + $\mu a\sigma roc,$ breast.] Congenital absence of the nipples or of the entire breasts.

amasty (a-mas'ti), n. Same as *amastia.
amaurosis, n. - Intoxication amaurosis, blindness due to the action of some systemic poison, such as alcohol or tobace.

or tobacco. Amaurotte family idiocy, a form of idiocy accompanied by constant and irremediable retinal lesions causing blindness. Lancet, June 25, 1904. amaxophobia (am-ak-sō-fō'bi-ä), n. [Prop. *hamaxophobia, \langle Gr. $\mathring{a}\mu a \xi a$, a wagon, $+ \phi o \beta \tilde{\epsilon} i v$, fear.] A morbid fear of vehicles. amazia (a-mā'zi-ā), n. [NL., \langle Gr. \mathring{a} - priv. $+ \mu a \zeta \acute{o}$ c, breast.] Congenital absence of the mammary glands.

μαζός, breast.] Congenital absence of the mammary glands.

Amazonian group, in geol., a term applied to rocks of Cretaceous age along the Rio Purús, Brazil, and regarded as equivalent in part to the Upper Chalk or Maestrichtian of Europe.

Amazonianism (am-a-zō'ni-an-izm), n. The state or condition of Amazons, Amazonian customs and conditions which develop in a certain state of society; particularly, the supposed Amazonian revolution of the women against prevailing hetærism. McLennan.

supremacy and rule of women in primitive society: an interpretation of the facts of de-scent traced in the female line, and the consequent supremacy of the male relatives of the wife over her husband. Ward, Pure Sociol., p. 338.

ciol., p. 338. Amazonomachia (am'a-zon-ō-mak'i-ä), n. [NL., \langle Gr. 'A μ a ζ ω r, Amazon, + μ a χ n, fight.] In Gr. antiq., a battle of Amazons. There were several of these mythic battles: (1) the invasion of Lycia by the Amazons; (3) the invasion of Phrygia by the Amazons; (3) the battle with Hercules, his 9th labor, in which Hippolyta, queen of the Amazons, was slain; (4) the battle with Theseus to liberate Antiope; (5) the battle at the close of the Trojan War, when the Amazons came to the assistance of Priam; (6) the invasion by the Amazons of the island of Leuce at the mouth of the Danube. Since it furnished many interesting arrangements of men, women, and horses in action, the Amazonomachia was a favorite subject with Greek artists. The finest representation of it now in existence is a series of



bas-reliefs, in the British Museum, which was found in the ruins of the Mausoleum at Halicarnassus. It was often represented in the decoration of vases.

A.M.B. An abbreviation of the Latin Artium Mechanicarum Baccalaureus, Bachelor of the Mechanic Arts, a title conferred by some col-

ambach, n. Same as *ambatch.

ambach, n. Same as *ambatch.
ambagiousness (am-bā'jus-nes), n. [ambagious + -ness.] The quality of being ambagious, roundabout, or indirect.
ambatch (am'bach), n. [See ambash.] The pith-tree of the Nile, *Eschynomene Elaphroxylon, a thorny shrub or small tree of extraordinarily quick growth: a characteristic plant of the waters of tropical Africa. Its uncommonly light, spongy wood is used for floats and small rafts. See ambash.
ambeer, ambier (am'bēr), n. [Perhaps due in some way to amber, in allusion to its color.] Tobacco-juice. Joaquin Miller. [Local, U. S.]
amber², n.—Drawn amber, amber which has been

Tobacco-juice. Joaquin Miller. [Local, U. S.]

amber², n.— Drawn amber, amber which has been dragged out of the sea with nets and rakes.— Pit amber, amber mined from pits or diggings. It usually has a frisble brown crust. Distinguished from strand and sea amber, from which this coating has been worn by the action of sea and sand.— Sea amber, amber washed up by the sea (from deposits under the sea or on the coast) or dredged from its depths. Also called sea-stone.— Strand amber, water-worn amber found on a coast or strand.

amber-beds (am'ber-bedz), n. pl. A deposit of glauconitic sands of Lower Oligocene age, developed along the coast of the Baltic Sea.

developed along the coast of the Barrier of which is near Königsberg, in the lower part of which is a band containing considerable quantities of amblyopia, n. Failing sight, as distinguished from amaurosis or total blindness.

[Gr. $\dot{a}\mu\beta\lambda\dot{\nu}_{5}$, developed along the coast of the Baltic Sea amber. The sands carry marine fossils, but the amber incloses insects, spiders, and centipeds, together with the fruit, flowers, seeds, and leaves of a large number of

amberiferous (am-ber-if'er-us), a. Amberbearing or amber-producing.

The west coast of Denmark . . . is included in this amberiferous region.

Buck, Med. Handbook, I. 208.

amberite (am'be-rīt), n. [amber + -ite².] One amblypod (am'bli-pod), n. [Gr. $\dot{a}\mu\beta\lambda\dot{v}$, blunt, of the modern explosives known as smokeless + $\pi\sigma\dot{v}$, foot.] A member of the order Am-blypoda, a group comprising a large number powders. It contains 40 per cent. of nitroglycerin, 56 per cent. of soluble guncotton, and 4 per cent. of camphor, vaseline, or some equivalent substance.

amber-jack (am'ber-jak), n. A name given to large species of the genus Seriola, as S. lalandi

and S. dumerili.

amberous (am'ber-us), a. Amber-colored; like

Its chambers paved with amberous lights.

The Century, Aug., 1890, p. 500.

amber-snail (am'ber-snal), n. A species of Succinea.

amber-tree, n. 2. The extinct tree Pinites succinifer, which yielded most of the amber of

ambiance (än-bi-äns'). n. [F. (Nouveau Larousse), (ambiant = E. ambient. The E. form would be *ambience.] Environment: in art, the arrangement of accessories and surroundings to support the main effect intended.

Amazonism (am'a-zon-izm), n. The supposed ambiciliate (am-bi-sil'i-āt), a. [L. ambi-, on supremacy and rule of women in primitive both sides, + NL. ciliatus, ciliate.] In ichth., society: an interpretation of the facts of deedged with minute teeth. [Rare.]

Ambicolorate flah appear to be always what one may call 'ambiciliate' also.

Proc. Zool. Soc. London, 1894, p. 439.

ambicolorate (am-bi-kul'or-āt). a. [L. ambi-on both sides, + coloratus, colored.] Having both sides of the body colored: applied specifi-cally to abnormal examples of flatfishes, colored on both sides, which are normally white beneath. *Proc. Zool. Soc. London*, 1894, p. 435.

neath. Proc. Zool. Soc. London, 1894, p. 435.

ambicoloration (am-bi-kul-q-rā'shon), n. [L. ambi-, on both sides, + coloration.] In zoöl., the property or fact of having both sides colored. Proc. Zool. Soc. London, 1894, p. 432.

Ambient vein. See *vein.

ambier, n. See *ambieer.

ambilation (am-bi-lā'shon), n. [ambi- + (re)-lation.] A relation in which every individual object of the universe of discourse stands to every other's a pene-coefficient.

every other; a pene-coexistence.

ambisinistrous (am-bi-sin'is-trus), a. [L. ambi-, on both sides, + sinister, left.] Same as ambital (am'bi-tal), a. [ambit + -al.] Of or pertaining to the ambitus or margin of the shell or test, as in echinoderms.

ambitty (am-bit'i), a. [Prob. a factory pron. of F. invitré (an'vi'trā'), unvitrified, < in-, L. in-, neg., + vitré, < L. vitrum, glass.] In glassmanuf., devitrified in the pot during the time it

ambitus, n. 6. In Gregorian music, the range or compass of a melody.—7. In the flat seaurchins or echinoids, the peripheral or equatorial area of the test which is not transsected

by the ambulacra.

Amblotheridæ (am-blō-thē'ri-i-dē), n. pl. [NL., < Amblotherium + -idæ.] A family of primitive mammals in which the molars bear a tritubercular blade and a posterior talon: from the Jurassic of North America and Great

Amblotherium (am-blō-thē'ri-um). n. [NL., for *Amblytherium, ⟨ Gr. ἀμβλίς, sluggish, + θηρίον, wild beast.] The typical genus of the family Amblotheriidæ: regarded by some authors as synonymous with Peraspalax, Phascolestes, and Stylodon.
Amblycephalidæ (am-bli-se-fal'i-dē), n. pl. [NL., ⟨ Amblycephalus + -idæ.] A family of harmless tropical snakes found in South America and Asia. The praygolds which are widely seen.

ica and Asia. The pterygoids, which are widely separated from the quadrates, do not reach beyond the plane of the occipital condyle. On account of the size of the head, the species (about 80 in number) bear some resemblance to venomous snakes.

amblychromatic (am-bli-krō-mat'ik), a. [Gr. $a\mu\beta\lambda^{\mu}$ c, dim, $+\chi\rho\bar{\omega}\mu a$, color.] Feebly staining: applied to certain myelocytes occurring in marrow. Opposed to *trachychromatic.

Amblygobius (am-bli-gō'bi-us), n. [NL., < Gr. αμβλύς, dull, blunt, + L. golius, goby.] A genus of gobies in the East Indies.

amblyoscope (am'bli- $\bar{\phi}$ -sk $\bar{\phi}$ p), n. [Gr. $d\mu\beta\lambda i\varphi$, dim, dull, obtuse, $+\sigma\kappa o\pi\epsilon i\nu$, view.] A stereoscope each lateral half of which has independent dent motion, whereby a fusion of the two images: can be effected under any conditions of divergence or convergence of the visual axes. Lancet, July 18, 1903.

of extinct ungulates.

of extinct angulates.

Amblypomacentrus (am'bli-pō-ma-sen'trus),

n. [NL., $\langle Gr. \dot{a}\mu\beta\lambda i c, dull, blunt, + (\dagger) Poma-centrus.$] A name given to a section of the genus Pomacentrus, small reef-fishes known as dam-sel-fishes or demoiselles.

sel-fishes or demoiselles.

Amblyrhiza (am-bli-rī'zā), n. [NL., \langle Gr. $\dot{a}\mu\beta\lambda\dot{i}\varsigma$, blunt. + $\dot{b}i\zeta a$, root.] An extinct genus of rodents, allied to Chinchilla, from the Post-tertiary of the Antilles.

amblystegite (am-blis'tē-jīt), n. [Gr. $\dot{a}\mu\beta\lambda\dot{i}\varsigma$, blunt, + $\sigma\dot{\epsilon}\dot{\gamma}\eta$, roof, chamber, + - ite^2 . The name alludes to the form of the crystals.] A variety of hypersthene from the andesite of the Laacher See in the Eifel, originally described as an independent species.

scribed as an independent species.

Amblystomatidæ (am'bli-stō-mat'i-dē), n. pl.

[NL.. (Amblystoma(t-) + -idæ.] Same as Am-

b̃lystomidæ.

amboceptor (am-bō-sep'tor), n. [L. ambo, both, + (re)ceptor.] A specific adaptation-product, the result of immunization, which unites the corresponding complement with the receptor of the cell or cellular product for which it has a special affinity. See *immunity. Also copula, desmon, fixator, immune body, intermediary body, preparator.

The excessive or lateral chains, being useless to the cells in which they are produced, are cast off and appear in the body juices as intermediary bodies or 'coptors,' which, according to their nature, are designated uniceptors (antitoxins, etc.) and amboceptors (intermediary bodies).

Science, July 3, 1908.

Ambocœlia (am-bō-sē'li-ä), n. [NL., < Gr. áμβων, a raised edge, + κοιλία, belly.] A genus of small spire-bearing brachiopods with smooth or spinous valves: abundant in the Devonian and Carboniferous rocks.

Ambonychia (am-bō-nik'i-8), n. [NL., \langle Gr. $\dot{a}\mu\beta\omega\nu$, a raised edge, $+\dot{b}\nu\nu\xi$, talon.] The typical genus of the family Ambonychiidæ.

Ambonychiidæ (am-bō-ni-kī'i-dē), n. [NL., Ambonychia + -idæ.] A family of pelecypod or acephalous mollusks. They have mytiliform shells with no auricle and with the anterior adductor nuscle obsolete, no hinge-teeth, ligament external, and byssal gape small. It is highly characteristic of the early Silurian faunæ and has a few Devonian representatives.

Amboyna button or pimple. See *button. ambroid (am'broid), n. The trade-name of a substance made from the inferior pieces of amber. See the extract.

The inferior pieces of amber are made into what is called ambroid. The pieces are washed and dried, coated on the outside with some chemical, and are then moulded with the aid of heat and pressure.

Scientific American, Sept. 16, 1899.

ambrosia, n. 3. The food of certain wood-boring beetles, consisting of various hyphomycetous fungi found associated with the beetles in their galleries, and said by some authors to be propagated by them, each species of beetle using a particular species of fungus.

Their [ambrosis-beetles'] food consists not of wood, but of a substance to which the name ambrosis has been given, and which is a coating formed by certain minute fungi and propagated on the walls of their galleries by the beetles. The action of the fungus produces the characteristic stain in the wood.

Yearbook U. S. Dept. Agr., 1896, p. 421.

ambrosia-beetle (am-brō'ziä-bē'tl), n. Anv one of a group of beetles of the family Sco-lytide, which burrow in the wood of different trees, and in their burrows cultivate certain fungi known as ambrosia. See *ambrosia, 3. Thirty species belonging to 6 genera in the United States are known to have this habit.— Cosmopolitan ambrosia-beetle, a scolytid beetle wide distribution, Xyleborus saxeseni.—Oak ambrosis beetle, an American scolytid beetle, Xyleborus afinis.

Ambrosiaces (am-brō-zi-ā'sē-ē), n. pl. [NL. (Reichenbach, 1828), \(Ambrosia + -aces. \)] A family of dicotyledonous, sympetalous plants of the order Campanulales, the ragweed family: chiefly distinguished from the Asteraces, in which it is included by many authors, by having the stamens (usually 5) separate, or the anthers merely connivent, so as not to be truly syngenesious. There are 8 genera and about 55 species, mostly American, coarse weeds, some bearing burs. Ambrosia, the ragweed, is the type, and the two other best-known genera are Iva and Xanthium.

ambrosial, a. 2. Pertaining to the senses of

ambrosial, a. 2. Pertaining taste and smell: a forced use.

While yet in the animal state man learns to enjoy the ambrosial senses in partaking of food and drink and in inhaling the air laden with many particles given off by natural bodies.

lies. J. W. Powell, Amer. Ethnol. Rep., XIX. lix.

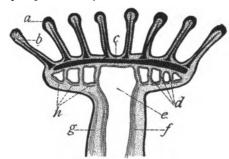
Ambrosian, a.—Ambrosian hymn, any hymn attributed to St. Ambrose (340-397) or his school. The title is generally considered as applying to twelve hymns characterized by their lack of rhythm and their austere simplicity. The 'Te Deum' commonly called 'Ambrosian' is thought now to be a translation of an ancient Casak business. Greek hymn.

ambrosine (am'brō-sin), n. [(amber + rosin.]
A resinous mineral found in the phosphate-beds near Charleston, South Carolina.

phate-beds near Charleston, South Carolina.

ambulacral, a. 2. Situated on the side which bears the ambulacra; hence, in Stelleroidea and Crinoidea, oral.—Ambulacral brush, in spatangoid sea-urchins, a structure consisting of an ordinary tube-foot of which the terminal disk is extraordinarily widened and carries a number of club-shaped or conical solid appendages, each supported by a calcarcous rod. The brushes occur near the mouth and anus, and are said to play an important part in the taking in of food by stirring up the sand.—Ambulacral fields, the areas or divisions of the surface of an echinoderm which are covered by the ambulacra.—Ambulacral foot, one of the hollow adhesive locomotive organs of an echinoderm;

a tube-foot or tentacle.



Longitudinal section through an ambulacral brush of a spatangoid (after Lovèn and Hamann). a, body epithelium; b, supporting ing-rod; c, supporting plate of the terminal disk; d, septa; c, canal of the water-wascular system; f, longitudinal muscles; g, nerve; A, circular muscle-fibers. Magnified. (Drawn from Lang S "Com-

fishes, or through the ambulacral plates in echinoids, for the passage of the canal which connects a tube-foot with its ampulla.

II. n. Same as ambulacral ossicle or plate.

II. n. Same as ambulacral ossicle or plate.

ambulance, n.— Veterinary ambulance, a substantial, heavy wagon with horizontal bottom and a false removable floor which can be rolled in and out, used for conveying invalid and disabled horses. The sides are high and are fitted with alings, etc.

ambulance-chaser (am'bū-lans-chā'ser), n.

A person, either a lawyer or the agent of a

lawyer, who follows up cases of accident in the streets and tries to induce the injured person to bring suit for damages. [Colloq.]

ambulancier (am-bū-lan-sēr'), n. [F. ambulancier, <ambulance, ambulance.] An ambulance surgeon or attendant. [Rare.]

Ambulatoria(am'bū-lā-tō'ri-ā), n.pl. [NL.] A group or suborder of orthopterous insects, corresponding to the Gressoria or walkers, and including out the Gressoria or walkers. cluding only the family Phasmidæ. See Gres-

ambulatory school, in Sweden, a method of education resorted to on account of the sparse population of the country. See the extract.

country. See the extract.

In so sparsely populated a country the organization of education (which is both free and compulsory) is a special difficulty, which has been partly overcome by ambulatory schools, in which the teacher shifts his quarters twice year or oftener within his district. The local management of education is part of the duties of the clergy, and this system seems to work without friction, though Sweden has her Nonconformists, perhaps because the latter are compelled to contribute to the support of the State Church.

Athenseum, March 18, 1905, p. 383.

ame (ä'mā), n. [Jap. ame, a kind of jelly made of flour.] A form of glucose or starch sugar made in Japan by the action of barley malt upon rice paste. It is melted and molded into numerous fanciful shapes for sale.

numerous fanciful shapes for sale.

amebic, a. See *amæbic.

amebocyte, n. See *amæbocyte.

ameed (a-mēd), v. t. [a-1 + meed.] To reward;

recompense. J. Barlow, Columbiad, vii. 611.

ameen (a-mēn'), n. [Ar. 'amin, faithful, trustworthy.] A person employed in a confidential capacity; a confidential servant or agent; an assistant; a bailiff, inspector, or intendant.

[Anglo-Indian.]

Ameiarchier (am-ē-lan'ki-èr), n. [NL. (Medicus, 1789), from Mespilus Ameiarchier, the Linnean name of the rock-mediar.] A genus of ornamental dicotyledonous shrubs or trees be-longing to the family *Malaceæ* and including about 12 species widely distributed in North America, Europe, northern Africa, and eastern and southwestern Asia. They have alternate, simple, entire or serrate leaves, and usually racemose, white flowers with persistent sepals and obovate-oblong or spatulate petals contracted at the base into slender claws. The fruit is small, globose or pyriform, with sweet and julcy flesh. The rock-mediar of central Europe is Amelanchier Amelanchier. See service-berry, 8.

lanchier Amelanchier. See service-berry, & amelification (a-mel'i-fi-ka'shou), n. [amel + L. -ficare, \(facere, \text{ make.} \] In embryol., the formation of enamel in the developing tooth.

Imeliorant (a - mēl'yo - raut), n. That which

ameliorant (a -mēl'yo-rant), n. ameliorates, betters, or improves.

amelioration, n. - Latentamelioration, unperceived Amerind (am'e-rind'), n. and a. [A backprogress due to natural causes, for example, increase of population and migration, which makes possible artificial amelioration through conscious effort. Ward, Dynamic Science 11 198

ctal amelioration through conscious effort. Ward, Dynamic Sociol., II. 209.

ameloblast (a.-mel'ō-blast), n. [amel + Gr. βλαστός, a germ.] In embryol., same as *adamantoblast.

amemasu (ä'mā-mä'sū), n. [Jap.] A Japanese name of Salvelinus kundscha, a trout com-mon in streams of Kamchatka and occasionally taken in northern Japan.

a tube-foot or tentacle.—Ambulacral pore, one of the Amen corner, a place in some Methodist openings between adjacent ambulacral ossicles in star-churches, usually at one side of the pulpit, where formerly sat the deacons who led the responsive 'amens' during the service.

amenomania, n. See amanomania.

Amentiflorm (a-men-ti-flo'rē), n. pl. [NL., \L. amentim (see ament) + flos (flor-), a flower (see flower).] In phytogeog., the catkin-bearing division of the ecological group Stigmatica,

consisting of Salix, Populus, and Betula.

amentulum (a-men'tū-lum), n.; pl. amentula (-15). [NL., dim. of amentum, ament.] The male inflorescence of Sphagnum compared to a diminutive catkin.

amenyl (am'en - il), n. The organic radical,

diminutive catkin.

amenyl (am'en - il), n. The organic radical, C₅H₉, derived from amylene, C₅H₁₀.

American blight. See *blight.—American class, a group of domesticated towls including those breeds which have originated in the United States. These are the Plymouth Rocks, wyandottes, javas, American dominiques, and Jersey blues.—American *cockroach, *copper, *copper hind-wing, *dagger, *lappet, *copper, *copper hind-wing, *dagger, *lappet, *locust, *pottery, etc. See the nouns.—American Protective Association. See *protective. American race, in anthrop., the primitive race of man inhabiting America. It is closely allied to the Mongol race, and is characterized by straight black hair, strong development of the malar bones and nose, and a skin which ranges from almost white to dark reddish brown in color. While the types of South and Central America are not well known, six fundamental types may be distinguished in North America and northern Mexico: (1) the Arctic type: short, with long and high head, very wide and flat face, and narrow nose, and of light color; (2) the Northwestern type: of moderate stature, with short head, wide face, broad and flat nose, and of darker color; (3) the Mississippi Valley type: tall, with moderately elongated head, wide face, broad and high hooked nose and of reddish color; (4) the Southeastern type: very tall, with rounded and high head, wide face, and of dark color; (6) the Mexican type: of moderate stature, with long, rather low head, delicate face, and of dark color; (6) the Mexican type: of moderate stature, with short head, moderately heavy face, and of dark color; (6) the Mexican type: of moderate stature, with short head, moderately heavy face, and of dark color; (6) the Mexican type: of moderate stature, with short head, moderately heavy face, and of dark color; (6) the Mexican type: of moderate stature, with short head, moderately heavy face, and of dark color; (6) the Mexican type: of moderate stature, with short head, moderately heavy face, and of dark color; (

Americana (a-mer-i-kā'nä), n. pl. [NL., neut. pl. of Americanus, American.] Books and papers

relating to America, particularly to its early history, geography, etc.

Americanism, n. 5. A name applied to a series of opinions at variance with the policy and practice of the Roman Catholic Church, supposed for a time to be held by some members of that church, especially in the United States, and condemned by Pope Leo XIII. in 1899 in an apostolical letter addressed to Cardinal Gibbons. The chief points were: that in order to attract those who differ from her the church should shape her teachings more in accord with the spirit of the age; that larger individual independence be allowed; that the church should relax some of her ancient severity and make concessions to new opinions; that points of teaching which are of minor importance be omitted and others toned down; that the monastic orders are out of date and their vows have no moral value; and that there should be a separation between church and state in all countries and under all conditions. supposed for a time to be held by some mem-

We are unable to give approval to these views which, in this collective sense, are called by some Americanism. But if by this name are to be understood certain endowments of mind which belong to the American people, just as other characteristics belong to various other nations, and moreover by it is intended your politic condition and the laws and customs by which you are governed, there is no reason to take exception to the name.

Pope Leo XIII. to Cardinal Gibbons, in Amer. Cath. Quar. Rev., April, 1899.

Americanistic (a-mer-i-kan-is'tik), a. Of or pertaining to an Americanist or to his science; carried on by Americanists: as, Americanistic research.

Americanitis (a-mer-i-kan-ī'tis), n. weening national conceit in citizens of the United States, especially when shown or ex-pressed by vulgar brag or noisy braggadocio.

The removal (from athletics, etc.) of the real dishonor so often revealed by the disqualification of men tainted with professionalism, less perfervid Americanitis at games and in celebrating victories, less newspaper exploitation, and a better regulation of the rapidly-growing pecuniary side of these spectacles—these yet remain to be accomplished.

G. S. Hall, Adolescence, II. 411.

formation from Amerindian for Amer(ican) Indian.] Same as *Amerindian (which see). The tribal fraternities of the Amerinds.
An. Rep. Bur. Amer. Ethnol., 1897-98, p. xlviii.

An. Rep. Bur. Amer. Ethnol., 1897-98, p. xivii.
Amerindian (am-e-rin'di-an), a. and n. [Americican) + Indian. Hence, by back-formation, Amerind. This word. with the associated forms Amerind, Amerindic, etc., was originally suggested by Dr. Charles P. G. Scott to Major J. W. Powell as a new but intelligible term

freed from the ambiguous and false associafreed from the ambiguous and false associa-tions of Indian and American Indian, and serving the need of a comprehensive term covering all the aboriginal tribes and languages of North and South America. The word was adopted by Major Powell and other ethnolo-gists at Washington in 1898, and has been much used since. The formation of the word is analogous with that of Eurasian, Eurasiatic, is analogous with that of Eurasian, Eurasian, Eurasian, Eurasian, etc., of aldehyde, albronze, chloroform, dyne, glycol, etc., of cosecant, cosine, cotangent, etc., and of innumerable names of genera in zoology and botany.] I. a. American Indian, in the widest sense; of or pertaining to the aboriginal inhabitants of North and South America (the Amerinds) or their languages; Amerind.

The four worlds of widespread Amerindian mythology.

An. Rep. Bur. Amer. Ethnol., 1897-98, p. 835.

II. n. One of the aboriginal inhabitants of North and South America; an 'Indian' (without the ambiguity of that term); a 'red man'; an Amerind.

Amerindic (am-e-rin'dik), a. Amerindian in

the most general sense, especially as applied to matters of ethnology or philology.

ameristic, a. 2. In bot., destitute of a meristem: applied to the prothalli of certain ferns which, being inadequately nourished, produce antheridia only.

Amerospora (am-e-ros'pō-rō), n. pl. [NL., \langle Gr. a- priv. + $\mu\epsilon\rho\sigma$, part, + $\sigma\pi\sigma\rho\dot{\alpha}$, seed.] A name applied by Saccardo to artificial divisions of various families and orders of fungi, especially those of the *Pyrenomycetes* and *Fungi* Imperfecti, to include the genera which have unicellular globose or short cylindric hyaline or colored spores.

amesial (a-mē'si-al), a. [a-18 + mesial.] In biol., not median. A median or unpaired biol., not median. A median or unpaired organ in a bilateral organism may be said to be amesial in origin if it arises by the union of two bilateral rudiments.

ametabole (a-me-tab'ō-lē), n. Direct development without metabole or metamorphosis.

amethenic (am-e-then'ik), a. Noting an acid, $C_7H_{14}O_2$, formed by the oxidation of diamylene. It is a liquid with weak acid properties. amethyst, n. 4. A trade-name for certain artificial dyes of the azine class, as tetramethyl safranine and tetra-amyl safranine.—Burnt amethyst, amethyst obtained by burning out the color of smoky quartz, which is occasionally combined with the amethystine quartz.

ametocious (a-me-tē'shius), a. [Gr. ά-priv. + μετά, beyond, + οἰκος, house. Cf. metœcious.] Not changing its host: applied to parasitic plants. Compare metæcious, heteræcious, heter-

amfibia, n. pl. A simplified spelling of amphibia.

amfibian, a. and n. A simplified spelling of

amfibious, a. A simplified spelling of amphib-10118.

Amharan (am-har'an), a. and n. Same as *Amharic. Geog. Jour. (R. G. S.), IX. 315.

Amharic, n. See *Abyssinian languages (a).

amic (am'ik), a. [am(ide) + -ic.] Having the properties of an amide and also of an acid: usually employed in composition: as, oxamic acid, CO₂H.CONH₂. Same as amidic.

A. M. I. C. E. An abbreviation of Associate Member of the Institute of Civil Engineers.

Member of the Institute of Civil Engineers.

Amici's telescope. See *telescope.

amicrobic (a-mi-krō'bik), a. [a-18 + microbic.]

Not related to or caused by microbes: as, an amicrobic disease.

Amicrovic disease.

Amicruræ (am'i-krö'rē), n. pl. [NL., ζ Gr. a-priv. + μκρός, small, + ουρά, tail. Cf. Micruræ.] A group of Nemertini, belonging to the family Lineidæ, characterized by the absence of a small filamentous tail: contrasted with Micruræ. The group includes the genera Lineus and Euborlasia.

amidah (a-me'dä), n. [Heb., < amad, stand.]

The most solemn prayer in the Jewish liturgy, also known as the shemonah 'esra' ('eighteen blessings'). It is repeated thrice daily, sotto blessings?). It is repeated thrice daily, sotto voce, while standing. The prayer is composed of eighteen short prayers and praises which treat principally of resurrection, the restoration of Jerusalem, and the coming of the Messiah. Nothing should disturb the pious worshiper while he is engaged in this prayer.

2. Amide, n.—Amide powder, an explosive mixture consisting of nearly equal parts of ammonium nitrate and niter, with a small amount of charcoal.

amidize (am'i-dīz), v. i.; pret. and pp. ami-

 $[amid(e) + -ize^{1}]$ dized, ppr. amidizing. cotton material (cellulose) with calcium chlorid and ammonia at a temperature of 100° C., in order to increase the affinity of the fiber basic colors: not widely used.

amidmost (a-mid'most), adv. and prep. [amid + most.] In the very middle; in the midst of. William Morris, Earthly Paradise, III. iv. 52.

amidoazobenzene (am'i-dō-az-ō-ben'zōn), n. [amide + azo- + benzene.] Same as *amino-azobenzene and aniline *yellow.

amidoazobenzene and anume "yeutow.

amidoazobenzene, (am'i-dō-az-ō-ben'zōl), n.

An azobenzene, CgH5.N=N.CgH5, into which
an amido-(NH2) group has been introduced:
CgH5.N=N.CgH4.NH2.

amidol (am'i-dōl), n. [amide + -ol.] A trade-

name for the hydrochlorid of diaminophenol, used as a developer in photography. Its formula is $C_6H_3OH(NH_2)_2.2HCl$. The free base is unstable.

amidothiolactic (am'i-dō-thi-ō-lak'tik), a.

Noting lactic acid which contains a thio (SH) and an amido (NH₂) group. Cystein (C₂H₃-(NH₂).(SH).COOH) is generally regarded as an acid of this order.

amidoxime (am-i-dok'sim), n. [amide + ox-ime.] The general name for a class of compounds formed by the union of a nitrile with hydroxyl amine. They have the general formula $R-C(NH_2)$:NOH. The amidoximes are usually crystal-line but unstable compounds and have both basic and acid properties.

amidoxyl (am-i-dok'sil), n. [amide + ox(y-gen) + yl.] The univalent group NHOH, as in isobutyric amidoxyl nitrile, (CH₃)₂C(NHOH)-CN, which is formed by the addition of hydroevanic acid to acetoxime.

A. M. I. E. E. An abbreviation of Associate Member of the Institute of Electrical Engineers. amigo (ä-mē'gō), n. [Sp., < L. amicus, a friend.] A friend: used specifically, in the Philippine Islands, for a native who is not hostile to the United States.

Amiichthys (am-i-ik'this), n. [NL., $\langle Gr. a\mu la,$ a kind of tunny, $+ i\chi\theta i\varsigma$, fish.] A genus of small cardinal fishes, of the family Apogonidæ, in Cuba.

amildar. n. Same as *amaldar.

amimetic (a-mi-met'ik), a. [a-18 + mimetic.]Not mimetic: applied to animals, especially insects, which do not mimic or resemble other species in coloration or behavior.

amimia, n.—Amnesic amimia, loss of appreciation of the significance of gestures.—Ataxic amimia, aphasia with inability to make gestures.

amin (am'in), n. Same as amine. aminic (a-min'ik), a. [amine + -ic.] Pertaining to an amine or to the amino group: as, aminic nitrogen.

amino (am'i-nō), a. [Orig. combining form of amine.] Containing the group NH₂: as, aminoacetic acid. The word is also used as a prefix or in compound words with the same meaning. Often written, incorrectly, amido.—Amino explosive, an explosive containing an amino compound, usually in the form of a nitrate, as the nitrate of aminoacetic acid, CH₂NH₂CO₂-

aminoazobenzene (am'i-nō-az-ō-ben'zēn), [amine + azo- + benzene.] A yellow crystal-line compound, C₆H₅N:NC₆H₄NH₂, formed by warming diazoaminobenzene with aniline hy-drochlorid and aniline. Some of its derivatives are valuable dyes. Also called, less correctly, **≠ami**doazobenzene.

aminoform (a-min'ō-fôrm), n. [amine + -form.] Hexamethylene tetramine. Same as *cysto-

gen, *urotropin, and *formin.
aminoglutaric (am'i-nō-glö-tar'ik), a. [amine iminoglutaric (am'i-nō-glō-tar'ik), a. [amine + glutaric.] Pertaining to glutamic acid in a relation indicated by the specific prefix.—Aminoglutaric acid a colorless, dextrorotatory compound, HOOCCH(NH₂)CH₂CH₂COOH, prepared by the action of dilute sulphuric acid on certain constituents of wheat gluten. It crystallizes in trimetric tetrahedra, melts at 202° C., and is also called a-aminoglutaric acid or a-glutamic acid.

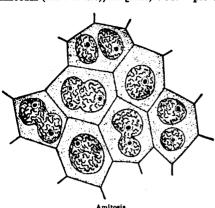
aminolysis (am-i-nol'i-sis), n. [amine + Gr. $\lambda \delta \sigma v_c$, dissolving.] In chem., the decomposition of a substance when involving a taking up of the elements of ammonia.

Amish (am'ish or i'mish), a. and n. [Also Omish; < *Ammisch, < Amman (see def.), < amman, dial. form of amimann, officer: see amman.] I. a. Pertaining to Jacob Amman (see

next) or to his followers or their sect.

II. n. A sect of the Mennonites which arose in the 17th century in Switzerland, named from its leader, Jacob Amman. He insisted on the strict use of the ban, and went so far as to repudiate the use of buttons and shaving as things of the world. The Amish Church in the United States numbers about 1,200 followers. They are also called *Hookers* from their use of hooks in their clothing.

Amishman (am'ish-or a'mish-man), n. [Amish man. 1 A member of the Amish sect of the Mennonites. See *Amish. amitosis (am-i-tō'sis), n. [NL., < Gr. a-priv. +



Group of cells with amitotically dividing nuclei; ovarian follicular epithelium of the cockroach. (Wheeler.)

μίτος, thread, + -osis.] In cytol., direct celldivision, akinesis or karyostenosis, as opposed to the indirect form of division (mitosis, karyokinesis, which see): so called from the absence of thread-like figures in the nucleus.

amitotic (am-i-tot'ik), a. Exhibiting amitosis;

relating to amitosis.

amitotically (am-i-tot'i-kal-i), adv. By ami-

tosis or direct division of cells without prelimtosis or direct division of cells without preliminary karyokinesis. $Encyc.\ Brit.,\ XXXI.\ 514.$ Amitra (am'i-trä), $n.\ [NL.,\ \langle Gr.\ \dot{a}\mu\tau\rho\sigma\varsigma,\ without girdle or head-band,\ \langle\ \dot{a}$ -priv. + $\mu\dot{\tau}\rho\sigma$, a girdle, a head-band: see miter.] A genus of deep-sea snail-fishes, of the family Liparididæ,

lacking ventral fins.

Amitrichthys (am-i-trik'this), n. [NL., \langle Gr. $\dot{a}\mu\tau\rho\sigma_{c}$, without girdle, $+i\chi\theta i\varsigma$, fish.] A subgenus of deep-sea snail-fishes of the family Liparididæ.

Amitrinæ (am-i-tri'nē), n. pl. [NL., < Amitra + -inæ.] A subfamily of Liparididæ, lacking ventral fins: typified by the genus Amitra.

amixia (a-mik'si-ä), n. [NL., < Gr. ἀμεῖα, < ἀμετος, unmingled, < ἀ-priv. + μικτός, < μιγνίναι, mix.] In biol., cessation of interbreeding between races or varieties.

amixis (a-mik'sis), n. [NL., < ά- priv. + μιξις, mingling.] Same as *amixia.

When we reflect that species extinct elsewhere must have survived locally, and add to these those local forms which owe their origin to amixis, we cease to be astoniahed at the enormous number of species of Lepidoptera which we find on the earth at the present day.

Eimer (trans.), Organic Evolution, p. 131.

amly (am'li), n. [Origin unknown.] The larva of the hellgrammite-fly, Corydalis cornuta (Corydalis cornutas). [Rhode Island.]

A. M. M. An abbreviation of Artium Mechanicarum Magister, Master of Mechanic Arts: a degree conferred by some institutions.

ammelide (am'e-lid), n. [ammel-in + -ide.] A monamide of cyanuric acid having the formula (CN)₃(OH)₂NH₂. It is formed from ammeline by heating the latter with sulphuric acid. Also called melanurenic acid. called melanurenic acid.

ammeline (am'e-lin), n. [Metathetic form of melamine.] The diamide, (CN)₃OH(NH₂)₂ of cyanuric acid. It forms microscopic needles which are very difficultly soluble in water. It is a weak base.

ammine (am'in), n. See metal-ammonia compounds, under *ammonia.
ammiolite (am'i-ō-līt), n. [Gr. ἀμμον, cinnabar in its sandy state (⟨ ἀμμος, sand), + λίθος, stone.] A mineral from mines in Chile, earthy in texture and of a red color: supposed to be an impure antimoniate of copper mixed with cinnabar.

ammodyte, n. 3. In bot., a plant growing

habitually in sandy places.

ammonal (am'ō-nal), n. A high explosive mixture consisting of 3 parts of ammonium nitrate and 1 part of aluminium.

ammonia, n. The great value of ammonia as a fertilizer, chiefly in the form of ammonium sulphate, renders the question of its supply on a large scale one of much importance. Until recent years it was obtained mainly from the watery ammoniacal liquor which is a by-product of the manufacture of coal-gas for illuminating purposes.

This source of supply has been seriously threatened by the extension, especially in the United States, of the use of carbureted water-gas, in making which little or no ammonia is obtained. Notable improvements, however, have been made in methods for the recovery of ammonia from the waste gases of coke-ovens, shale-works, and blast-furnaces, and very considerable amounts are now obtained from these previously neglected sources. One of the most interesting results secured with the aid of the high temperature of the modern electric furnace is the synthetical production of ammonia from the nitrogen of atmospheric air and the hydrogen of water. Carbon in the form of coke is mixed with lime and the nixture intensely heated in the presence of atmospheric nitrogen, giving rise to carbon-monoxid gas and calcium cyanamide (CaCN₂). The latter, heated with water under pressure, yields calcium carbonate and ammonia (CaCN₂ + 8H₂O = CaCO₃ + 2NH₃). It appears that cyanamide itself may serve, when used directly as a fertilizer, to furnish assimilable nitrogen to growing plants.—Albumindd ammonia, the animonia formed by the decomposition of organic matter when water, sewage, or other substances are distilled with an alkaline solution of potassium permanganate. The determination of albuminoid ammonia is used to secure information as to the amount of nitrogenous organic matter in potable waters or in sewage.—Ammonia coll, in refrigeration, a special kind gas-piping bent into a coil and used in conveying and cooling ammonia.—Ammonia condenser, a large coil of pipe built up with the proper fittings, used in cooling and condensing hot ammonia gas as it comes from the compressor. Two types are in use. In one, called a surface condenser, the gas passes through the coil while coid water flows in a film over the outside surface of the pipes. In the other, called a pipe condenser, double pipes, one within the other, are built up as a coil, the ammonia gas travelling through the smaller inside pipe and the coil water flowing in t

for these substances.

ammoniator (a-mō'ni-ā-ter), n. [*ammoniato,
v. (< ammonia), + -er¹.] A substance which
supplies ammonia to a compound fertilizer.

ammonioplatinic (a-mō'ni-ō-pla-tin'ik), a.

Derived from ammonium and platinum.—Ammonioplatinic chlorid, ammonium chloroplatinate
(NH₄)2rtCl₆, the double chlorid of platinum and ammonium: a sparingly soluble yellow crystalline precipitate often used as the form in which to determine, in
chemical analysis, ammonia or its constituent nitrogen. chemical analysis, ammonia or its constituent nitrogen.

ammonite² (am'o-nit), n. [ammon(ium) + -ite².] A name applied to certain explosive materials, patented by Favier, containing ammonium nitrate with other substances, chiefly nitro- or dinitro-naphthalene.

ammoniticone (am-mō-nit'i-kōn), n. and a. [Ammonites + cone.] I. n. A cone-shaped shell coiled in one plane, as in an ammonite; the shell of an ammonite, ceratite, or gonia

tite. II. a. Having a close-coiled symmetrical shell, as the ammonoid cephalopods.

ammonitiform (am-o-nit'i-form), a. [NL. ammonites, ammonite, + L. forma, form.] Resembling an ammonite in shape, as the young of certain Gusteropoda.

ammonitoid (a-mon'i-toid), a. and n. [ammo-

nit(e) + -oid.] I. a. Related or belonging to the ammonites or Ammonoidea; resembling an ammonite. Zittel (trans.), Textbook of Paleon., I. 547.

n. An ammonite (which see) or amomnoid.

noid.

ammonium, n.—Ammonium bichromate, ammonium pyrochromate ($(NH_4)_2Cr_2O_7$). By heating this sait nitrogen gas may be obtained, in accordance with the reaction ($(NH_4)_2Cr_2O_7$) = $Cr_2O_3 + 4H_2O + N_2$.—Ammonium carbonate, $(NH_4)_2CO_3$, a commercial sait valuable in wool-scouring and also used in medicine and in common smelling-saits.—Ammonium chlorid, sail ammoniac, NH_4Cl . It is usually prepared from ammonium sulphate by heating with common sait, the ammonium chlorid subliming, and is used to some extent in the exciting fluid of the Leclanché galvanic cell, in the production of mordants, etc. It is obtained on a great scale as a by-product of the Solvay or ammonia

process for making soda from common salt—in this case used to recover ammonia, which is again applied in a renewal of the process.—Ammonium chloroplatinate. See *ammonioplatinic chlorid.—Ammonium hydraxid, in chem., the form in which ammonis is assumed to exist when dissolved in water, NH₄.HO, resulting from the action of NH₃ and H₂O upon each other. The solution, the ordinary liquid ammonia of commerce, behaves in many respects like the solution of caustic soda (NaHO) or caustic potash (KHO), but decomposes, on being heated, into gaseous ammonia and water. Recent investigations of the physical properties of the solution make it very doubtful whether the hydroxid has any real existence. Often improperly called ammonium hydrate.—Ammonium magnesium phosphate, in chem., a slightly soluble crystalline salt (NH₄MgPO₄.6H₂O) frequently resorted to in chemical analysis as the form in which to separate magnesium from other substances. It is often met with as a constituent of urinary calculi.—Ammonium nitrate, in chem., the salt formed by the union of ammonia and nitric acid (NH₃+HNO₂=NH₄NO₃), chiefly noteworthy as the source from which, by cautiously heating it somewhat above its melting-point, nitrogen monoxid or nitrous oxid, the so-called laughing-gas, is prepared for use as a gaseous anesthetic, most commonly by dentists.—Ammonium persulphate, a salt (NH₄)₂So₂O₃ sparingly used in the development of photographic pictures.—Ammonium phosphomolybdate, in chem., a salt of the composition (NH₄)₂PO₄+12Moogs, appearing as a bright-yellow crystalline precipitate insoluble in a nitric-scid solution of ammonium molybdate. It is very commonly used in analytical processes as the form in which to separate the radical of orthophosphoric acid, for the determination of this radical or of the phosphorus to contains, and is of great value in connection with the analysis of fertilizers and of steel.—Ammonium picrate, a substance crystallizing in bright-yellow needles, burning on the application of fiam

ammono-acid (a-mo"no-as'id), n. A compound which in solution in liquid ammonia conducts itself in a manner analogous to the conduct of ordinary acids in water: as, acetamide, CH₃-CONH₂, which reacts with the ammono-base, KNH₂, giving potassium acetamide, CONHK, and ammonia. ammono-base (a-mō'nō-bās'), n. A com

A compound which conducts itself in a solution in liquid ammonia as an ordinary base conducts itself in aqueous solution and which contains the group —NH₂ in place of the hydroxyl, OH, of an ordinary base: as, potassium amide, KNH₂.

ammono-basic (a-mō-nō-bā'sik), a. Designating a compound related to an ammono-salt in a manner analogous to the relation of a basic salt to the salt from which it is derived: that is, an ammono-salt in which a part of the acid groups have been replaced by NH₂ as OH replaces acid groups in the formation of

ordinary basic salts.

ammonoid, n. II. a. Pertaining to or having the characteristics of the Ammonoidea.

ammonol (am'ō-nōl), n. The trade-name of a remedy said to consist of acetanilid, sodium bicarbonate, and ammonium carbonate. It is

antipyretic and analgesic.

ammonolysis (am-ō-nol'i-sis), n. The decomposition of an ammono-salt in liquid ammonia in a manner analogous to the hydrolysis of salts in water.

ammono-salt (a-mō'nō-sâlt'), n. A compound formed together with ammonia by the action of an ammono-acid on an ammono-base in a solution in liquid ammonia.

Ammon's horn. Same as cornu Ammonis. ammotherapy (am- $\bar{0}$ -ther a-pi), n. [Gr. $\check{a}\mu\mu\rho\varsigma$, sand, + $\theta\epsilon\rho a\pi\epsilon ia$, medical treatment.] The employment of sand-baths in the treatment of disease

ammunition-conveyer (am -ū-nish on-kon-vā on, n. In a man-of-war, a mechanical appliance, moved by power, for transporting ammunition horizontally from the magazines to the bottom of the ammunition-hoists.

ammunition-hoist (am-ū-nish'on-hoist), n mechanical contrivance, worked by hand or power, by means of which ammunition is lifted from the magazines or passages in the lower parts of a war-ship and delivered in the vicinity of the guns, or on the decks upon which they are placed.

ammunition-passage (am-ū-nish'on-pas'āj), n. A passage arranged in the lower parts

of a war-ship, beneath the protective deck, through which ammunition is transported from the magazines to the places from which it is

sent up through the decks to the guns above.

mmunition-room (am-ū-nish' on-röm), n.

Any compartment on a war-ship in which ammunition is stored for use: usually made water-tight and provided with means for flooding with water in case of fire on board. The term includes magazines, shell-rooms, and fixedammunition rooms.

ammunition-scuttle (am-ū-nish'on-skut'l), n. In a man-of-war, a scuttle in a deck or in the bulkhead of a magazine through which ammunition is passed on its way to the guns. scuttle², n., 1.

Amnemonic agraphia. See *agraphia.

Amnesia, n.— Auditory amnesia, word-deafness.

Amnesic amimia. See *amimia.

Amnigenia (am-ni-jē'ni-ä), n. [NL., < L. amnis, a river, + -genus, -born.] A genus of extinct pelecypod mollusks or clams allied to the family Unionidæ and believed to be of freshamments. raminy Cnioniae and believed to be of fresh-or brackish-water habitat. Amnigeniae Catakili-ensis is a characteristic fossil in the brackish-water One-onta sandstones lying at the base of the Catakill formation. amnio-allantoic (am'ni-ōal-an-tō'ik), a. Con-cerning or pertaining to the presence of an amnion and an allantois.

amnion and an aliantois.

amnion, n. 5. In echinoderms, the sac in the pluteus larva inclosing the developing echinus.

—True amnion, the inner of the two embryonic envelops in reptiles, birds, and mammals, as opposed to the outer of false amnion.

amniote (am'ni-ōt), a. and n. [NL. amniotus, < amnion, amnion.] I. a. Possessing an amnion.

nion; amniotic.

nion; amniotic.

II. n. A member of the Amniota.

Amniotic band, acord-like formation on the inner surface of the amnion, sometimes constricting a limb of the fetua.—Amniotic cord, in ruminants, a band of tissue persisting for a time after the closure of the amnion and chorion, and connecting these two structures.—Amniotic dropsy. See *dropsy.

amniotitis (am'ni-ō-ti'tis), n. [NL., irreg. (after amniote) < Gr. aμνίον, amnion, + -itis.] Inflammation of the amnion.

Amœba coli or dysenteriss, an amœboid organism believed to be causative of one form of dys-

amœbiasis (a-mē-bi-ā'sis), n. Morbid condition induced by the presence of amæbæ.

mæbic (a-mē'bik), a. [amæba + -ic.] Of, pertainamœbic ing to, or characterized by presence of amæbæ.

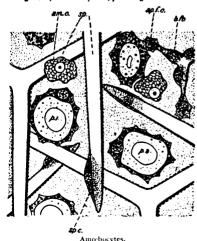
the presence of amæbæ.

Also amebic.—Amobic colitis, inflammation of the large intestine caused by the presence of Amæba coli or dysenteriæ; amæbic dysentery. Jour. Exper. Med.,

VI. 167.—Amæbic dysentery, Amæba coli. (Magnified.) a form of dysentery due to the presence of Amæba coli or dysenteriæ in the intestine. See dysentery. Jour. Exper. Med., VI. 89.

Amæbida (a-mē'bi-dā), n. pl. [NL., Amæba + -ida.] An order of Rhizopoda. They have lobose pseudopodia, are with or without a shell, have one or more nuclei, and usually have a contractile vacuole. It includes the families Amæbidæ, Arcelidæ, and Euglyphidæ.

amœbocyte (a-mē'bō-sīt), n. [NL. amæba +



Amerbocytes.

Body wall of Clathrina coniscea, Mont., seen from the inside in the region of the oscular rim, showing pores (p, 1, p, 2),—the collar-cells removed to show the underlying parenchyma. am.c, amerbocyte: ap.f.c, apical formative cell; s.f.c, apical formative cell; s.f.c, apical committee cells and committee cells are committee cells.

Gr. κύτος, a hollow (a cell).] An amoeboid cell or corpuscle, usually of rounded or lobose shape (frequently packed with granules or sometimes with particles of pigment), found everywhere among the cells and tissues and in the cavities of various invertebrate animals. Such cells are known also, from their vagrant habits, as vandering cells. In some organisms, as sponges, they give rise to the genital products, and they are also probably concerned with the functions of nutrition and excretion. Also spelled amelocyte.

cretion. Also spelled amebocyte.

amœbocytogenous (a-mē'bō-sī-toj'e-nus), a.

[NL., < amæba + Gr. κύτος, a hollow (a cell), +
γενης, -producing.] In pathol., relating to or
producing amœbocytes.

Amœbogeniæ (a-mē-bō-jen'i-ē), n. pl. [NL.,
< amæba + -genus, producing.] A group of
Sporozoa having amœboid sporozoites: equivalent to Myxosporidia.

Amœbognoridia (a-mē'hō-spō-rid'i k) - c'

Amœbosporidia (a-mē'bō-spō-rid'i-ä), n. pl. [NL., < amæba + Gr. σπορά, seed, + -idia.] A group of Gregarinida which have a multi-

nucleate amœboid form and increase by direct division or by falciform young coming from spores. They are found in the Malpighian tubules of some beetles. Same as *Schizogregarinæ.

amok (š'mōk), a. and n. [Malay āmok, āmoq, pron. š'mōk) or š'mōh: see amuck.] I. a. Same as amuck (but a form nearer the original).

See amuck.
II. n. An affray in which one or more persons (Malays) run amuck. See the quotation.

An amok took place last night, by a Malay, which resulted in the loss of his own life and the wounding of 16 persons.

Straits Times, quoted in Giles's Glossary of Reference.

amok (ä'mok), v. i. To run amuck (which see). amora (a-mō'rš), n.; pl. amoraim (am-ō-rš'im). [Heb. 'amōra, expounder, < Heb. Aram. 'amar, say, speak.] 1. An officer who stood beside say, speak.] 1. An officer who stood beside a public teacher or lecturer and announced in a loud voice, in popular language, what the teacher had just uttered in a low voice in academic language: otherwise called 'translator' or 'interpreter.'—2. One of the expounders of or interpreter.—2. One of the expounders of the Mishnah, successors of the tannaim. The expositions of these rabbis and the Mishnah constitute the oral law called *Talmud*. The period of the amoraim began after the death of Rabbi Judah ha.Nasi (the Prince Judah), about 200 A. D., and extended to about 500 A. D.

amoral (ā-mor'al), a. [a-18 + moral.] Devoid of moral quality; neither moral nor immoral; non-moral. R. L. Stevenson, in Longman's Mag., I. 70. N. E. D.
amorfous, a. A simplified spelling of amornhous.

Amorgan (a-môr'gan), a. [L. Amorgus, Amorgos, ⟨Gr. 'Αμοργός.] Of or pertaining to Amorgos, one of the Cyclades, a group of islands in the Ægean Sea, or to an ancient civilization, preceding that of Mycenæ, shown by numerous remains which have been found by recent expensions. Amorgan (a-môr'gan), a. [L. Amorgus, Amorgos, Gr. 'Aμοργός.] Of or pertaining to Amorgos, one of the Cyclades, a group of islands in the Ægean Sea, or to an ancient civilization, preceding that of Mycenæ, shown by numerous remains which have been found by recent excavators. Amorgos is noted as the residence of the greek poet Simonides (7th century B. c.) and for the production in ancient times of a very fine kind of flax which was woven into garments and dyed red.

The material employed, and the simple form of the vase, seem to show that it belongs to the later praemycenean or Amorgan period.

A. J. Evans, in Jour. Hell. Studies, XVII. 350.

Amorgian (a-môr'gi-an), a. Same as Amorgan electrical current measured in amperes. amorism (am'ō-rizm), n. [L. amor.] ove, +

Amorgian (a-môr'gi-an), a. Same as Amorgan. amorism (am'ō-rizm), n. [L. amor, love, + -ism.] Love-making tendencies or disposition; amatory intrigue; gallantry.

Full of the romance and colour and sparkle of that curious life—half old-world Spanish, half topsy-turry Oriental in its fatalism and passionate amorism—which was to be found in California.

Athenæum, Jan. 17, 1908, p. 77.

amorist, n. 2. One who is given to writing love-sonnets or -songs.

The Angel determines all conceptions of the poet, who is imagined as a mild and amiable amorist.

Athenæum, April 1, 1906, p. 890.

amoristic (am-ō-ris'tik), a. [amorist + -ic.] Amatory. The Academy, April 9, 1881. Amorphophallus (a-môr-fō-fal'us), n. [NL., < Gr. ἀμορφος, shapeless, + φαλλος, phallus.] A giant plant of the family Araceæ from the eastern tropics, grown as a curiosity in hothouses. It has immense spathes containing many ill-smelling flowers. The three most commonly cultivated species are A. Rivieri (commonly called *devil's-tongue), A. campanulatus, and A. giganteus. See cut in next column

amorphophyte (a-môr'fō-fit), n. [Gr. ἀμορφος, shapeless, + φυτόν, a plant.] A plant with flowers of irregular or anomalous form. Necker. amorphose (a-môr'fos), a. Amorphous. [Rare.]



Amorphophallus campanulatus. (After figure in Engler and Prantl's "Pfianzenfamilien.")

Amorphozoary (a-môr-fō-zō'ā-ri), n. [Gr. ἀμορφος, formless, + NL. zoarium, q. v.] An irregular or shapeless animal growth, as a sponge or a colonial colenterate.

amorphus (a-môr'fus), n.; pl. amorphi (-fī). [NL., ⟨Gr. ἀμορφος, shapeless.] In teratol., a mole or shapeless monster.

amortisseur (ā-môr-ti-ser'), n. [F., ⟨amortir, amortiseur's amortize.] In elect., an induction in the pole
amortize. A fossil marked by tracks of amphibia.

amphibole, n.—Soda amphibole, a variety of amphibole, or a species of the amphibole group, characterized by the presence of sodium as a prominent constituent the species riebeckite, glaucophane, artvedsonistic amphibolic fistula, an opening made amphibolic fistula, an opening made amphibolic fistula, an opening made mole or shapeless monster.

amortisseur (ä-mör-ti-ser'), n. [F., < amortir, deaden: see amortize.] In elect., an induction motor secondary winding located in the pole-faces of the magnet-field of electric machines to dampen any tendency to oscillation. It usually consists of a 'squirrel cage,' or number of copper bars passing through the field-iron and connected with each other by end-rings.

amortizable (a-mör'ti-za-bl), a. That can be or is intended to be amortized or extinguished:

amortizable (a-môr'ti-za-bl), a. That can be or is intended to be amortized or extinguished:

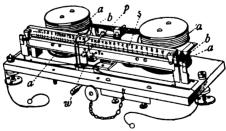
amortizable in ten years.

amortion, n. 3. In law: (a) An unlawful taking of chattels (b) The act of turning out on owner.

of chattels. (b) The act of turning out an owner of an estate in land before the termination of his estate. (c) In corporations, removal of an official of a corporation before the expiration of the term for which he was appointed.

amoyong (ä-mō'yong), n. [Tagalog *amoyong, Bisaya amoyon, < Tagalog amoy, scent.] A name in the Philippines of Fissistigma fulgens

ampere-balance (am-pār'bal"ans), n. An instrument for measuring electric currents by



Ampere-balance.

a, a, fixed coils, between which are moving coils, b, b, brought to a balance by sliding weight, w, on which is index, p, indicating on cale, s.

means of the attraction between a fixed coil, through which the current flows, and a movable balanced coil which forms a part of the same circuit.

ampere-hour (am-par'our), n. In elect., a unit of quantity, the electricity transferred by a current of one ampere in one hour. It is equal

Ampère's frame, rule. See *frame, *rulc. ampère-turns (am-pār'tèrnz'), n. pl. A mea-sure of the magnetizing power, or magnetomo-tive force, of a current of electricity in a con-

tive force, of a current of electricity in a conducting-coil, equal to the product of a number of turns in the coil by the current (in amperes) passing through it.

ampharkyochrome (am -fär'ki -ō -krōm), n.

[Gr. ἀμφί, on both sides, + ἀρκιχ, net, + χρῶμα, color.] In neurol., a cell in which the nodal points of the nucleus are connected by descriptions.

deeply staining bands or bridges.

ampheclexis (amf-ek-lek'sis), n. [Irreg. < Gr. ampheciexis (ami-ek-lek'sis), n. [Irreg. (Gr. ἀμφί, on both sides, + ἐκλεξις, selection: see eclectic.] Sexual selection on the part of both male and female. Compare *gyneclexis and *andreclexis. Ward, Pure Sociol., p. 361.

amphiaster, n. 3. [l.c.] A sponge-spicule consisting of a straight axis with a whorl of rays near each end.

rays near each end.

amphibia, n. pl., 2. Boulinger divides the Amphibia, n. pl., 2. Boulinger divides the Amphibia into four orders, Stegocephalia, Apoda, Caudata, and Bcaudata, the last three being the same as the Gymnophiona, Urodela, and Anura of other writers, but bearing the names originally applied to them. Recent researches emphasize the distinctness of the Stegocephalia and show that they approach reptiles in some structural features. On this account it has been proposed by Seeley to place the two in one class, while Credner would unite the Stegocephalia with the Rhynchocephalia. The order Stegocephalia is variously divided into from 2 to 5 suborders, mainly on characters furnished by the vertebres.

ful nature.— Amphibolic fistula, an opening made in the gall-bladder of an animal for the purpose of obtaining bile for physiological study. The common bile duct is left intact, so that when the external opening i plugged the bile may flow away through the duct.

philolize + -ation.] In geol., the metamorphic process by which minerals of the amphibole group are produced in rocks by the alteration of other minerals.

amphibrachic (am-fi-brak ik), a. [amphibrach + -ic.] Of or pertaining to the amphibrach; characterized by amphibrachs. Scripture, Elements of Experimental Phonetics, p. 510.

amphicarpium (am-fi-kär'pi-um), n.; pl. amphicarpia (-ä). [NL., \langle Gr. $a\mu\phi i$, on both sides, $+\kappa a\rho\pi\delta c$, fruit.] In bot., an archegonium that persists after fertilization as a fruit-envelop.

amphicarpogenous (am-fi-kär-poj'e-nus), a. [Gr. aμφί, on both sides, + καρπός, fruit, + -γενής, -producing.] In bot., developing the fruit above ground and subsequently burying it, as the peanut.

Amphicerus (am-fis'e-rus), n. [NL. (Le Conte, 1861), ζ Gr. αμφικερως, two-horned.] A genus of bostrychid beetles peculiar to North Amer-Ca. A. bicaudatus is known in the United States as the apple-twig borer. It frequently injures apple-orchards by boring into the small twigs and causing them to break off. It also injures the canes of the grapes.

Amphichelydia (am" fi-ke-lid'i-ä), n. pl. [NL., \langle Gr. $\dot{a}\mu\phi i$, on both sides, $+\chi\dot{\epsilon}\lambda\nu_{\epsilon}$ (stem $\chi\dot{\epsilon}\lambda\nu_{\epsilon}$, assumed to be $\chi\dot{\epsilon}\lambda\dot{\nu}\dot{\epsilon}\lambda\nu_{\epsilon}$), a tortoise.] A name introduced by Lydekker and redefined by Baur as a suborder to include fossil turtles or chelonians having free nasals, a squamosoparietal arch, pelvis not ankylosed to the carapace or plastron, and an intergular shield. At present it embraces only a single family, the Pleurosternias, containing several generalized forms from the Jurassic, Cretaceous, and Tertiary rocks.

the Jurassic, Cretaceous, and Tertiary rocks.

amphicondylous (am-fi-kon'di-lus), a. [Gr. ἀμφί, on both sides, + κόνδυλος, a joint or knob (see condyle).] Having two condyles or articular facets, as the skull of mammals and batrachians: contrasted with *monocondylous.

amphicotyledon (am'fi-kot-i-lē'don), n. [NL.. ⟨ Gr. ἀμφί, on both sides, + NL. cotyledon.]

The cotyledons when united so as to form a cup. De Vries

De Vries.

amphicreatinine (am-fi-krē-at'i-nin), n. [am-phi-+ creatinine.] A base, C₈H₁₉N₇O₄, found in small amount in lean meat. It forms brightvellow crystals and resembles creatine in its properties.

amphictyonian (am-fik-ti-ō'ni-an), a. Same

as amphictyonic.

Amphicyonidæ (am'fi-si-on'i-dē), n. pl. [NL.,

Amphicyon + -idæ.] A family of Carnivora
in which the characters of the teeth and base of skull are those of the dogs, while the structure of the limbs and the plantigrade feet are like those of the bears: found in the Tertiary rocks of North America, Europe, and Asia.

amphidepula (am-fi-dep'ū-lā), n.; pl. amphidepulæ (-lē). [amphi- + depula.] In embryol., a phase of the metadepula stage characteristic of the cyclostomes, ganoids, Dipnoi,

and Amphibia among vertebrates. Hackel. amphidesmous (am-fi-des'mus), a. [Gr. $\dot{a}\mu\dot{\phi}i$, on both sides, + $\dot{d}\epsilon\sigma\mu\dot{\phi}s$, a band.] Having a ligament on each side.

ligament on each side.

amphidetic (am-fi-det'ik), a. [Gr. ἀμφί, on both sides, + *δετός, bound, ⟨ δεῖν, bind.] In the pelecypod mollusks, extending on both sides of the beak: noting a type of ligament.

amphidetically (am-fi-det'i-kal-i), adv. In an amphidetic manner; with the ligament on both sides of the beak, as in some mollusks.

Amphidiscophora (am'fi-dis-kof'ō-rā), n. pl. [NL., < *amphidiscus, amphidisk, + Gr. -φορος, < φέρειν, bear.] An order of lyssacine, hexactinellidan sponges having amphidisks always present in the limiting membranes and no hexasters in the parenchyma. It includes the family Hyalonematidæ.

amphidiscophoran (am'fi-dis-kof'ō-ran), a. and n. I. a. Pertaining to or having the char-

acteristics of the Amphidiscophora.

Any member of the Amphidiscophora.

II. n. Any member of the Amphidiscophora.

Amphidozotherium (am'fi-dō-zō-thē'ri-um),

n. [NL., appar. a misprint for *Amphidoxo-therium, ⟨ Gr. ἀμφίσοςος, uncertain, + θηρίον,

a wild beast.] A genus of fossil moles from the Tertiary phosphorites of Quercy, France, supposed to be allied to the existing Urotrichus of Japan and North America.

amphidromic (am-fi-drom'ik), a. [Gr. ἀμφίδρομος, running around: see amphidromia.] Pertaining to cotidal lines arranged radially about

a no-tide point.
amphigean, a. 3. In bot., bearing flowers from a rootstock

amphigenetic (am'fi-jē-net'ik), a. on both sides, + genetic.] By means of both sexes. Amphigenetic reproduction is sexual

reproduction.

reproduction.

Amphigenia (am-fi-jē'ni-ä), n. [NL.: see amphigenous.] A genus of extinct brachiopods belonging to the family Pentameridæ. The shells are of large size, and the ventral valve has a small spondylium or pedicle-pit resting on a very short vertical septum. These shells abounded in Devonian seas.

amphigenic (am-fi-jen'ik), a. [Gr. αμφιγενής, of both kinds, +-ic.] In petrog., a term applied to sedimentary rocks which are partly of organic and partly of inorganic origin, such as numerous silicious and calcareous deep-sea

deposits. Also amphogenic. amphigenite (am-fij'e-nīt), n. [amphigene + -ite².] In petrog., a name sometimes given, especially in France and Italy, to igneous rocks rich in leucite.

amphigonia (am-fi-gō'ni-ä), n. [NL.] Same

as amphigony.

as amphigonic heredity. See *heredity.
amphigonium (am-fi-gō'ni-um), n.; pl. amphigoniu (-a). [NL., < Gr. ἀμφί, on both sides, + γόνος, generation.] That stage of the malarial parasite which is passed in the mosquito. Grassi. Compare *monogonium.

amphilepsis (am-fi-lep'sis), n. [NL., \langle Gr. $a\mu\phi_i$, on both sides, $+\lambda\bar{\eta}\psi_i$, a taking, \langle $\lambda a\beta\epsilon i\nu$, take.] The transmission to an offspring and to its descendants of characteristics of both parents: contrasted with *monolepsis.

amphimesodichotrisme (am-fi-mes-ō-dī-kō-trī en), n. [Gr. $\dot{a}\mu\phi$ i, at both ends, + $\dot{\mu}\epsilon\sigma\sigma$ c, middle, + $\delta\epsilon\chi$ a, in two, + $\tau\rho\epsilon\alpha\nu$ a, a trident.] In the nomenclature of the spicular elements of sponges, a form of trieene having a thick shaft or rhabd from near the middle of which arise symmetric sets of branches by threes. It is derived from the tetraxial type of spicular

structure. Also called amphiaster. See *amphiaster, 3, and sponge-spicule.

amphimixis (am-fi-mik'sis), n. [NL., \langle Gr. $\dot{a}\mu\dot{\phi}i$, on both sides, $+\mu i\xi\iota c$, a mingling.] In biol., the mingling of the hereditary tendencies of the two parents in sexual reproduction, considered abstractly, as distinct from Amphisorex (am-fi-sō'reks), n. [NL., Gr. àµφi, amphigory or the reproductive process.

Amphisorex (am-fi-sō'reks), n. [NL., Gr. àµφi, about, near, + L. sorex, a shrew.] A genus rep-

Although the study of heredity is greatly complicated by amphimizis, this mingling of the hereditary tendencies of two parents, and even the process of sexual reproduction which accompanies it, afford us a much deeper insight into the process of heredity than we could ever have obtained in any other way.

Weismann (trans.), Germ-plasm, p. 21.

Amphinesian (am-fi-ne'sian), a. and a. [Gr. $a\mu\phi$, on both sides, $+\nu\eta\sigma\sigma$, island.] I. a. Of or pertaining to the aborigines of Indonesia, Polynesia, and Micronesia, considered as one

racial division of mankind.

racial division of mankind.

II. n. A member of the Amphinesian race.

Amphineura, n. pl. 2. A class or order of marine Mollusca. They have a bilaterally symmetrical elongated body, with terminal month and anus; the shell either lacking or consisting of 8 median pieces; mantle not divided into paired lobes; ctenidia absent or variously arranged; and the odoutophore either present or lacking. The class includes the Chitonide, Neomenicies, and Checodermatides.

Amphineurous (am-fi-nū'rus), a. [Gr. aupi.

menicies. and Chestodermatides.
amphineurous (am-fi-nu'rus), a. [Gr. ἀμφί, on both sides, + νεῦρον, sinew, nerve.] Having two lateral and two ventral nerve-cords, as the chitons; having the characteristics of the

amphiodont (am'fi-ō-dont), a. [Gr. ἀμφί, on both sides, + ὁδοίς, tooth.] In entom., having the dentition of the jaws intermediate between the teleodont and priodont forms: applied to certain stag-beetles of the family Lucanids. amphicatious (am-fi-ō'shus), a. [Gr. ἀμφί, on both sides, + οἰκος, a dwelling.] In ichth., capable of living in either salt or fresh water.

Amphion (am-fi'on), n. [NL., < Gr. Ἀμφίων, a name in poetic myth.] A generic name introduced by Pander for trilobites characterized by their broad and short cephalon, 15 to 18 there is accomments, and precidial riba

to 18 thoracic segments, and pygidial ribs extended into spines. These trilobites are

of Silurian age.

amphiont (am'fl-ont), n. [Gr. $\dot{a}\mu\phi i$, on both sides, $+\delta \nu$ (o $\nu\tau$ -), a being.] A zygospore or sporont formed by the union of two individuals: specifically applied to one of the two stages of alternation of generations in the life-history of *Coccidia*. *Haeckel*. Compare Compare *monont.

amphiox (am'fi-oks), n. [Gr. αμφί, at both ends, + οξίς, sharp.] In the nomenclature of the spicular elements of sponges, a slender spindle-shaped rod of monaxial type, sharp at both ends.

both ends.

Amphioxides (am-fi-ok'si-dēz), n. [NL., (Amphioxus + Gr. -dng (see -ides).] A genus of lancelets, of the family Branchiostomatidæ, characterized by the absence of cirri about the mouth. A. pelagicus, found in the open sea off Hawaii, is the typical species.

amphipeptone (am-fi-pep'ton), n. [amphi-peptone.] In the sense of Kuehne, the end-product of peptic digestion, a hypothetical mixture of auti- and hemi-peptone. Also ambapartone

phopeptone.

amphiplatyan (am-fi-plat'i-an), a. [Gr. $a\mu\phi i$, on both sides, $+\pi\lambda arv_{5}$, flat, +-an.] Of vertebræ, having both of the articular faces of the

tebræ, having both of the articular faces of the centra flat or plane. Owen.

amphipneustic (am-fip-nūs'tik), a. [Gr. ἀμφί, on both sides, + πνευστός, breathing.] Breathing at both ends: applied to certain dipterous larvæ having spiracles at each end of the body connected by large tracheal trunks. Cambridge Nat. Hist., VI. 450.

amphipositive (am-fi-poz'i-tiv), a. In photog., noting a process invented by Sabatier in which the picture is the result of a superposition or entangling of two images, one negative and

the picture is the result of a superposition or entangling of two images, one negative and the other positive. It is based upon the fact that certain substances, when poured in solution upon a negative which is in course of formation, exercise upon it, whatever be the developing agent otherwise employed, a disturbing and substituting action such that the development of the negative is stopped at the moment of contact, and the chemical combination which follows this contact gives rise to a positive. The substances which exercise this power are probably numerous. Lime-water, solutions of ammonia, and silver nitrate possess it in the highest degree. They may be applied after the use of pyro-developer.

Amphiprion (am-fip'ri-on), n. [NL., \langle Gr. $a\mu\phi$, on both sides, $+\pi\rho i\omega v$, a saw.] A genus of damsel-fishes of the family Pomacentridæ: found on the coral reefs of the Pacific, and re-

markable for their varied coloration. amphipyrenin (am-fi-pī-rē'nin), n. [Gr. $\dot{a}\mu\phi i$, on both sides, $+\pi\nu\rho\dot{\eta}\nu$, stone of a fruit (nucleus), +-in.] In bot., a substance, related to pyrenin. forming the nuclear membrane in the cell. Schwarz, 1887.

resenting the Soricidæ, or shrews, found fossil in the Quercy phosphorites of Oligocene age. amphispermous (am-fi-sper'mus), a. [Gr. $a\mu\phi i$, on both sides, $+\sigma\pi\ell\rho\mu a$, seed.] In bot., having the seed closely invested by the pericarp without modification of its form, as in an achenium.

achenium.

Amphisphæria (am-fi-sfē'ri-ā), n. [NL. (Cesati and De Notaris, 1863). < Gr. ἀμφί, on both sides, + σφαίρα, sphere.] A genus of sphæriaceous fungi having mostly superficial scattered perithecia. The speres are two-celled and dark-colored. The species are numerous and occur ahiofir on dead wood. chiefiy on dead wood.

Amphisphæriaceæ (am'fi-sfē'ri-ā'sē-ē), n. pl. [NL., < Amphisphæria + -aceæ.] A family of pyrenomycetous fungi, typified by the genus

Amphisphæria.

amphispore (am'fi-spōr), n. [Gr. αμφί, on both sides, + σπορά, a spore.] A unicellular spore occurring in certain species of Puccinia, resecurring in certain species of Puccinia, resembling a uredospore in its mode of germination, but requiring a period of rest before it will germinate. Amphispores are found in Puccinia vexans and P. Tripsaci.

Amphistegina (am fi-stē-jī'nä), n. [NL., ⟨Gr. aμφi, on both sides, + στέγη, a roof, + -ina.]

A genus of calcareous foraminifers, of the family Nummulitidæ, having a lenticular test spirally enrolled and chambered: very abundant

in the Miocene Tertiary

in the Miocene Tertiary. **Amphistichus** (am-fi-stik'us), n. [NL., \langle Gr. $\dot{a}\mu\phi\hat{i}$, on both sides, $+\sigma\tau\hat{i}\chi\sigma$, a line.] A genus of surf-fishes, of the family *Embiotocidæ*, found off the coast of California. A. argenteus is the common species.

amphistrongyle (am-fi-stron'jīl), n. [Gr. ἀμφί, at both ends, + στρογγύλος, round.] In the nomenclature of the spicular elements of sponges, a short monaxial rod with rounded

ends. See sponge-spicule.

amphistyly (am-fis'ti-li). n. [amphistyl(ic) + -y3.] The state or condition of being amphistylic, or of having (as some sharks) the mandibular arch attached to the skull by a liga-

ment and but slightly supported by the hyoid. amphithecium (am-fi-the sium), n:, pl. amphithecia (-siä). [NL., \langle Gr. $\dot{a}\mu\phi i$, on both sides, $+\theta / \kappa n$, case.] In bot., the layer of cells at first surrounding the endothecium in the capsule of a most

sule of a moss.

amphiton (am'fi-ton), n. [Said to be < Gr. αμφί, at both ends, + τόνος, a rope.] In the nomenclature of the spicular elements of sponges, a monaxial pencil-like rod with abruptly sharp-

a monaxiai pencii-like rod with abruptly sharpened ends. See sponge-spicule.

amphitriæne (am-fi-tri'ēn), n. [Gr. $\dot{a}\mu\phi i$, at both ends, $+\tau\rho iauva$, a trident.] A name given to a form of skeletal element in the silicious sponges which presents the appearance of a vertical rod bearing a trident at each end: regarded as a modification of the tetraxial type of spicule.

regarded as a modification of the tetraxial type of spicule.

amphitriænic (am'fi-trī-ē'nik), a. [Amphitriæne + -ic.] Of the nature of an amphitriæne.

amphitrichous (am-fi-trī'kus), a. [Gr. $\dot{a}\mu\phi i$, on both sides, $+\theta\rho i\xi$ $(\tau\rho\iota\chi_{-})$, hair.] Provided with a flagellum at each extremity.

amphitrider (am-fi-trī'der), n. [Gr. $\dot{a}\mu\phi i$, at both ends, $+\tau\rho i\delta\epsilon\iota\rho\sigma$, three-necked (see trider).] In the nomenclature of the spicular elements of sponges, a trider in which the end of the principal axis is developed into a cladome. Analogous to *amphitriæne (which see). See also sponge-spicule.

amphitrochal (am-fit'rō-kal), a. [amphitrocha + -al.] Pertaining to or resembling amphi-

+ -al.] Pertaining to or resembling amphi-

trocha

amphityle (am'fi-til), n. [Gr. $\dot{a}\mu\phi i$, at both ends, $+\tau i\lambda o$, a knob.] In the nomenclature of the spicular elements of sponges, a slender, straight, monaxial rod with swollen ends. See

sponge-spicule.

amphitypy (am'fi-ti-pi), n. The character of exhibiting both types. See the extract.

In the arrangement of the reproductive organs one finds the double condition designated sexual amphitypy, in which one individual is, as it were, the mirror image of the other. Usually one can be designated as having the normal arrangement, but the relative frequency may be such that neither can be said to be more typical than the other. Buck, Handbook of Med. Science, VII. 863.

amphivasal (am-fi-vā'sal), a. Of or pertaining to the presence of concentric fibrovascular

Among the Cyperacese it has been found that amphirasul bundles occur in practically all the nodes of plants bearing well-developed leaves. Science, Jan. 27, 1905, p. 140.



amphopeptone (am-fō-pep'tōn), n. See *amphipeptone.

amphophil (am'fōfil), a. [Gr. $\delta\mu\phi\omega$, both, + $\phii\lambda\sigma\varsigma$, loving.] Noting granules, in certain leucocytes, which have an affinity for both acid and basic dves

basic dyes.

amphophilic (am-fōfil'ik), a. [Gr. ἀμφω,
both, + φιλεῖν, love.]
In cytol., capable of
being dyed with both
acid and basic stains: said of certain cells or parts of cells.

amphophilous (amfof'i-lus), a. Same as *amphophilic.

amphoriskos (am-fō-ris'kos), n. [NL., ζ Gr. ἀμφορίσκος, dim. of αμφορεύς, amphora.] A type of Greek vase resembling the amphora but much smaller, being about 3 or 4 inches high.

Panathenaic Amphoriskos. (From "Journal of Hellenic Studies," by permission of the Council.) amphoteric, a. 2. In chem., capable, in different reactions, of exhibiting both acid and basic character, as, for example, glycocoll or amidoacetic acid. amphoterite (am fot e rit), n. [As amphoter(ic)

amphoterite (am-fot'e-rit), n. [amphoterogenic (am-fō-ter'ō-jen'ik), a. [Gr. αμφότερος, each of two, + γένος, kind.] In petrog., a term applied to sedimentary rocks resulting from the mixture of chemical and mechanical deposits, as marl and loess.

amphoterotoky (am-fō-te-rot'ō-ki), n. [Gr. amphoterotoky (am-fō-te-rot'ō-ki) amphoterotoky (am-fō-te-rot'ō-ki), n. [Gr. αμφότερος, each or both, + τόκος, production.]
The production of both males and females from unfertilized eggs; *heteroparthenogenesis (which see). See also normal *parthenogen-

amphotoky (am-fot'ō-ki), n. [Gr. ἀμφω, both, + τόκος, production.] Same as *amphoterotoky. amplexicauline (am-plek-si-kâ'lin), a. [am-plexicaul +-ine¹.] In bot., same as amplexicaul. Syd. Soc. Lex.

Amplexopora (am-plek-sop'ō-rā), n. [NL., \langle L. amplexus, embraced, + Gr. $\pi \acute{o} \rho o \varsigma$, L. porus, pore.] The typical genus of the family Am-

Amplexoporidæ (am-plek-sō-por'i-dō), n. pl. [NL., < Amplexopora + -idæ.] A family of cryptostomatous Bryozoa which assume a variety of forms having simple zocecial tubes, no mesopores, and abundant acanthopores. The species occur fossil in the Silurian and Devonian rocks.

Amplexus (am-plek'sus), n. [NL., \langle L. am-plexus, pp. of amplecti, embrace.] A genus of Paleozoic tetracorals of the family Zaphrentidx, having simple subcylindrical coralla with shallow calice, well-marked septal fossula, and septa not reaching to the center.

ampliation, n. 2. (b) In French law: (1) A duplicate of an acquittance or other instrument. (2) A notary's copy of acts passed before him, delivered to the parties. Bouvier, Law Dict.—4. In med., dilatation or distention of a corollar activities. tion of a canal or cavity.

amplitude, n. 4. (c) In function theory, if $x = \xi + i\eta$, let the polar coördinates of (ξ, η) be ρ, θ , then any one of the angles θ or $\theta + 2n\pi$, where n is any positive or negative integer, may be called the amplitude of x.— 6. In meteor., the range or difference between the maximum and minimum values of the temperature, pressure, or other meteorological element within a definite time, such as a day, a month, or a year.—Chief amplitude, the vectorial angle θ_0 , when a year.—Chief amplitude, the vectorial angle θ_0 , when $-\pi < \theta_0 \le \pi$: abbreviated Am x, while any amplitude is am x—Periodic amplitude, the difference between the maximum and minimum values computed by a Fourier-Bessel series, as distinguished from the non-periodic amplitude, which is the difference between the absolute maximum and minimum values, or the means of all the maxima and minima. Observations made with maximum and minimum thermometers give the non-periodic amplitude; hourly observations can give the periodic amplitude in temperature.

amphogenic (am-fō-jen'ik), a. Same as *am- ampulla, n. 6. In Hydrocoralline, a pit formed in the connechyma for the reception of gonophores

ampullation (am-pul-a'shon), n. An ampullary process or condition.

In Callicthys the ampullation of the main canal is described as a remarkable phenomenon hitherto unrecorded in any other animal.

Linnean Zoöl. Soc. Lond., Oct., 1896, p. 184.

amputating-knife (am'pū-tā-ting-nīf'), n. A knife with a long narrow blade, used to divide the muscular tissues in the amputation of a

the muscular tissues in the amputation of a limb.

Amputation in continuity, amputation through the segment of a limb and not at a joint.—Dry amputation, an amputation performed with a minimum loss of blood.—Gritti's amputation, amputation at the knee-joint, the end of the stump being terminated by the patella, which is turned under the femur, and the opposing surfaces of the bones are denuded of cartilage, so that union occurs between them.—Intermediary amputation, amputation of a limb during the period of reaction following the shock caused by the injury, but before the occurrence of suppuration in the wound.—Primary amputation, amputation of a limb within a very short time after the receipt of the injury necessitating operation—after the shock has subsided, but before the establishment of infiammatory symptoms.—Secondary amputation, amputation performed some time after the receipt of the injury, when suppuration in the wound has begun.—Spontaneous amputation, separation of the dead portion of a limb in case of gangrene; also, the division of a limb by constricting bands formed during intra-uterine life. Jour. Exper. Med., V. 106.

ampyx, n. 3. In the anatomic structure of the Devonian fish Palæospondylus, an element of the anterior part of the skull.

the anterior part of the skull.

So far as it contributes to the floor of the skull it may be described as a transverse bar or fillet, somewhat higher in front than behind, providing a support on each side for the terminal half of the low anterior cranial walls. The thickness of the bar, which for brevity may be called the 'ampyz,' is considerable and it is extended downwards to the ventral face of the skull where it is seen as a very considerable and it is extended to the ventral face of the skull where it is seen as a very considerable and it is extended to the ventral face.

A name in the Philippines of Koordersioden-dron pinnatum, a valuable timber-tree belongting to the cashew family. It occurs also in Celebes and New Guinea. Its wood, which is also called palosanto, is lightred sometimes marked with lead-colored spots. It is used in ship-building and for the construction of buildings, but it does not resist the attacks of

amusement, n. 4. In music, a brief enter-taining piece, often one intended to give va-riety to technical exercises.

amusia (a-mū'si-ā), n. [NL., \langle Gr. $\dot{a}\mu o v \sigma o \varsigma$, not musical, \langle \dot{a} -priv. + $\mu o \bar{v} \sigma a$, muse: see muse, music.] Loss, through disease, of the ability to express musical sounds either vocally or instrumentally, to write musical notation (the **amylocoagulase** (am'i- $l\bar{o}$ - $k\bar{o}$ - $ag'\bar{u}$ - $l\bar{a}s$), n. power of ordinary writing being retained), or [amyl + coagul(ate) + -ase, as in diastase.] A to appreciate musical sounds mentally. See ferment which coagulates soluble starch: **★**tone-deafness.

amusingness (a-mū'zing-nes), n. Amusive quality or effect; the quality of affording amusement.

amusement.

amutter, (a-mut'er), adv. phr. [a-2+ mutter.]

Muttering; in a muttering state. Mrs. Browning, Aurora Leigh, p. 28. N. E. D.

Amyaria (am'-i-ā'ri-ā), n. pl. [NL., < Gr. ā-priv. + μῦς (μυ-), musele, + -aria.] A group of acephalous mollusks having no adductor museles. It includes the genus Chlamydocon-Dall.

amyarian (am-i-ā'ri-an), a. [Amyaria + -an.]
Pertaining to or resembling the Amyaria; hav-

ing no adductor muscles.

Amycteridæ (a-mik-ter'i-dē), n. pl. [NL., <
Amycterus + -idæ.] A family of Australian short-beaked rhynchophorous beetles, of which

Amycterus is the type.

Amycterus (a-mik'te-rus), n. [NL. (Schönherr, 1826), < Gr. ἀμυκτηρ, without a beak or nose, < ά- priv. + μυκτήρ, beak.] A genus of rhynchophorous beetles of the family Curculionidæ, or typical of the Amycteridæ, containing several Australian species characterized by an

excessively short beak. amyelinic (a-mi-e-lin'ik), a. [Gr. ά- priv. + μυελός, medulla, + in + ic.] In neurol., without a medullary sheath: said of nerve-endings and embryonic nerves in vertebrates.

Amygdalaceæ (a-mig-da-lā'sē-ē), n. pl. [NL. (Reichenbach, 1828), < Ämygdalus + -aceæ.] A

family of dicotyledonous, choripetalous plants of the order *Rosales*, the almond family, called by De Candolle *Drupaces* (which see), and included by many authors in the Rosacese as a Subfamily. It embraces 7 genera, of which Amygdalus (almond, peach) and Prunus (plum, cherry) are the only important ones, and about 110 species, mainly of the north temperate zone of both hemispheres, with a few in the tropics. See Amygdalus, Prunus, and Rosaces.

amygdalectomy (a-mig-da-lek'tō-mi), n. [Gr. àμυγδαλα, tonsils, + ἐκτουῆ, a cutting out, excision.] Same as amygdalotomy.

amygdaliform (am-ig-dal'i-fōrm), a. [Gr. àμυγδάλη, almond, + L. forma, form.] Almondahand

shaped.

shaped.

Amygdaline fissure. See *fissure.

amygdalolith (a-mig'da-lō-lith), n. [Gr. ἀμυγ
δά/η, an almond, + λίθος, stone.] A concretion in the substance of a tonsil. Buck, Med.

Handbook, III. 232.

amygdalotome (a-mig'da-lō-tōm), n. [Gr. αμυγόαλα, tonsils, + -τομος, ζταμείν, cut.] Same as tonsillotome.

amygdophenine (a-mig-dō-fē'nin), n. [L. amygd(ala), almond, + phen(yl) + -ine.] Phenylglycolyl phenetidine, $C_6H_4(OC_2H_5)$ -NHCOCH(OH) C_6H_5 . Its acetyl derivative is a febrifuge; it is also antiseptic in its propostical properties. erties.

Amyl acetate, a compound, $C_2H_3O_2$, C_5H_{11} , prepared from fusel-oil or amyl alcohol and acetic acid. It is much used in the manufacture of lacquers, and is also used in a lamp for a primary standard in photometry.—Amylacetate standard, in photom., a standard of light consisting of the flame of an amylacetate lamp. The accepted form is that devised by Von Hefner Alteneck, See *kight standard.

Amylaceous bodies, Same as corpora amylacea (which see, under corpus).

amylan (am'i-lan), n. [amyl + -an.] The name given to two compounds, known as a- and β -amylan, found in wheat, rye, and oats. In composition and properties they somewhat resemble dextrine.

amylase (am'i-lās), n. [amyl +-ase, as in diastase.] A ferment which will convert starch into dextrose: it occurs widely distributed in both the animal and the vegetable world. Same as diastase or amylolytic ferment.

amylate, n. 2. A metallic derivative of amyl alcohol: as, sodium amylate, C₅H₁₁ONa.

amylobacter (am'i-lō-bak'ter), n. [Gr. ἀμυλον, starch, + βακτήριον, à little rod.] See *amylobacterium.

amylobacterium (am'i-lo-bak-te'ri-um), n.; pl. amylobacterium (am'i-lō-bak-tē'ri-um), n.; pl. amylobacteria (-ä). [NL., < Gr. ἀμνλον, starch, + βακτήριον, a little rod.] A micro-organism which has the power of producing butyric acid from a large number of substances, including lactic, citric, malic, and other acids, as well as of splitting up certain pectic compounds associated with the cell-walls of many tissues.

found in cereals.

amyloid, a. and n. I. a. 2. In pathol., noting a degenerative change characteristic of lardaceous disease (which see, under lardaceous). Encyc. Brit. XXXI. 548.— Amyloid bodies. Same as corpora amylacea (which see, under corpus).— Amyloid kidney. See *kidney.

Amyloid kidney. See *kidney.

II. n. 2. A precipitate obtained from a gelatinous solution of cotton which has been treated with concentrated sulphuric acid. Vegetable parchment is due to the partial transformation of the vegetable fibers into this substance.—3. In pathol., same as lardacein.

amyloin (a-mil'ō-in), n. [Gr. ἀμυλον, fine flour, +-in².] A name given by Brown and Morris to a class of substances formed by the action of diastase upon starch. They have the properties of both maltose and dextrine.

amylome (am'i-lōm), n. [amyl+-ome (see -oma).] Xylem parenchyma which contains starch.

amyloplastic (am'i-lō-plas'tik), a. [Gr. ἀμν-λον, fine meal (starch), +πλαστός, < πλάσσειν, form.] Starch-forming. amyloplastid (a-mil-ō-plas'tid), n. [Gr. ἄμν-λον, starch, +πλαστός, formed, +-id².] A col-orless plastid which produces starch in plart cells.

amylotype (a-mil'ō-tīp), n. [Gr. ἀμυλον, fine meal, + τύπος, type.] In photog., a picture printed by the action of light on paper which has been washed in juice extracted from

ing substance. See *anthotype.

Amylum body. Same as *amyloplastid.—Amylum center. Same as pyrenoid.

center. Same as pyrenoid.

Amynodon (a-min'ō-don), n. [NL., irreg. (Gr. àµivev, ward off, + òōoiç (òōovr-), a tooth.] A genus of rhinoceros-like ungulates from the Eocene of North America.

Amynodontidæ (am'i-nō-don'ti-dō), n. pl. [NL. (Amnodon ((Gr. àµivev, ward off, + òōoic, tooth + -idæ.] A family of ungulates, related to Rhinoceros, from the Tertiary rocks of North America. They have on each ramus of the jaw 3 incisors, 1 canine, 4 premolars, and 3 molars. The manus is regarded as having had 4 digits and the pes 3.

amyotrophia (a'mi-ō-trō'fi-ā), n. [NL., (Gr.

amyotrophia (a'mi-ō-trō'fi-ä), n. [NL., < Gr. a- priv. + μῦς, muscle, + τροφή, nourishment, < τρέφειν, nourish.] Same as amyotrophy.

Amyotrophic paralysis, paralysis resulting from muscular atrophy.

Amyotrophic paralysis, paralysis results and a dextrorotatory β -amyrilene have been described.

The Amyotrophic paralysis, paralysis results and a dextrorotatory β -amyrilene have been described.

The Amyrilene (a-mir'i-len), n. [amyr (in) + -il simpler type than the *Acrogynæ (which see). the the thalloid genera of the *Acrogynæ (which see). the thalloid genera of the *Acrogynæ (which see). anacrogynous (an-ak-roj'i-nus), a. [Gr. av-priv. + akpov, apex. + $\gamma vv\theta$, female, + -ous.] In bot., having the archegonia formed at a point below and remote from the apex, as in the *Anacrogynæ.

Anacortus (an-a-sèr'tus), n. [NL., \langle Gr. av-avartus (an-a-sèr'tus), n-avartus (an-a-sèr'tus), n-avartus (an-a-sèr'tus), n-avartus (an-a-sèr'tus), n-avartus (an-a-sèr'tus).

irreg. (Gr. avaβaivew, to go up: see anabasis.
The name alludes to the habit of the plants in coming to the surface of the water.] the blue-green alge (Schizophyceæ), consisting of numerous oval or circular cells united into a filament, with intercalary heterocysts. It is distinguished from Nostoc by the absence of an enveloping gelatinous mass which incloses a number of filaments. This genus is responsible for some of the bad odors and tastes frequently noticeable in water during the warmer months.

anabix (an'a-biks), n.; pl. anabices (a-nab'i-sēz). [NL., an arbitrary or mistaken formation, based, according to some, on Gr. αναβιούν, rebased, according to some, on Gr. avapuov, revive, but perhaps on ἀνάβασις, a going up.]

The part of certain cryptogamic plants, as lichens, liverworts, and club-mosses, that perishes below while vegetating above.

anabo (ä-nä-bō'), π. [Tagalog f] A name in anadipsic (an-a-dip'sik), α. Pertaining to or characterized by anadipsia.

anabo (ä-nä-bō'), n. [Tagalog f] A name in the Philippine Islands of Abroma augusta and allied species, the twigs of which yield a strong, white bast-fiber which is easily separated and is superior to sunn-hemp. The plant is readily cultivated and yields three crops a

is readily cultivated and yields three crops a year. See devil's-cotton.

anabolergy (an-ab'ō-ler-ji), n. [Gr. ἀναβολή, a striking up (see anabolism), + ἐργον, work.] Energy expended in anabolism.

anabolistic (an-ab-ō-lis'tik), a. [anabol(ism) + -ist + -ic.] Relating to or consisting in anabolism or constructive metabolism. Phil.

med. Jour., Jan. 31, 1903.

anabranch (an'a-brànch), n. [ana-, in anastomosing, + branch.] A branch of a river which reunites with it lower down, thus forming an island known as a branch-island. Called by the aborigines billabong. [Australian.] by the aborigines billabong. [Australian.]

A curious history is given of the word "Anabranch," which was applied by Colonel Jackson in the R. G. S. Journal of 1884 to the branch of a river which reunites lower down with the main stream.

Geog. Jour. (R. G. S.), XI. 819.

anabrosis (an-a-brō'sis), n. [NL., < Gr. avaβρωσις, an eating up, ζ ἀναβιβρώσκειν, eat up, ζ ἀνά, up, + βιβρώσκειν, eat.] In med., erosion of the surface; ulceration.

anabrotic (an-a-brot'ik), a. [anabrosis (-ot-) + -ic.] In med., relating to or consisting in anabrosis or superficial erosion of the surface. anacampsis (an-a-kamp'sis), n. [Gr. ἀνακαμψις, ⟨ ἀνακάμπτειν, bend back, ⟨ ἀνά, back, + κάμπ-τειν, bend.] Reflection as of light or sound;

reaction; reciprocation.

anachlorhydria (an-a-klōr-hi'dri-ä), n. Absence of hydrochloric acid in the gastric juice. anachoresis (an-a-kō-rē'sis), n. [NL., ⟨ Gr. aναχωρρους, withdrawing, retreating, ⟨ dva-χωρείν, withdraw, ⟨ ἀνά, back, + χωρείν, give way.] In bot., retrograde change in an organ

or whorl.

anachromatic¹ (an'a-krō-mat'ik), a. [Gr. $a\nu\dot{a}$, up, $+\chi\rho\ddot{\omega}\mu a$, color.] Relating to an ascending color scale. Buck, Med. Handbook, III. 208.

anachromatic² (an-ak-rō-mat'ik), n. [an-³ + achromatic.] In photog., a corrective for achromatism. Woodbury, Diet. of Photog., p. 33.

anachronismatical (an-ak'ron-iz-mat'i-kal),
a. [Irreg. < anachronism + -at-ic-al.] Same
as anachronous. Barham, Ingoldsby Legends,
p. 182. [Rare.] N. E. D.

plants or from flowers or in an artificial coloring substance. See *anthotype. E. acidity.] Reduced or abolished acidity of the gastric juice or other fluid.

anaclete (an-a-klēt), n. [Gr. ἀνά, back, + κα-λειν, call.] Öne who is called back.

anacies (al-g-riet), n. [Gr. ana, back, + λα-λειν, call.] One who is called back.

anaclinal (an-g-kli'ngl), a. [Gr. άνά, back, + κλίνειν, bend.] In geol., transverse to the dip:

said of a valley or a river which descends against the dip.— Anaclinal valley, a valley whose axial direction is not in accord with the dip of the underlying rocks.

anacostia (an-a-kos'ti-ä), n. anacostia (an-a-kos'ti-ä), n. A twill-woven fabric with a worsted warp and a woolen weft.

Anacrogynæ (an-ak-rō-jī'nō), n. pl. [NL., < Gr. άν- priv. + ἀκρον, apex, + γννή, female.]

In bot., a suborder of cryptogamic plants of the order Jungermanniales, class Hepaticæ, in which the archegonia are formed at a point below and representations.

Anacrytus (an-a-ser'tus), n. [NL., < Gr. ἀνά-κυρτος, curved upward or backward, < ἀνά, up, + κυρτός, curved.] A genus of South American toothed shiners of the family Characin-

anadenia (an-a-dē'ni-ā), n. [NL., < Gr. ἀν-priv. + ἀδην, a gland.] Insufficiency or ab-sence of glands, especially of the gastric glands. anadisme (an-a-dī'ēn), n. [Gr. ἀνά, up, back, + "δίαινα, an assumed form ('two-pronged staff'), from δι-, two, parallel to τρ.αινα, a tri-dent.] In the nomenclature of the spicular elements of sponges, a hexactine spicule hav-ing a straight rhabd or shaft and an anchor-shaped hand. Son sponge spicule

ansërobe, n.— Facultative ansërobe, an organism usually requiring oxygen, which has become capable of living in either the presence or the absence of oxygen.

ansërobia² (an-ā-e-rō'bi-ā), n. [NL., abstract noun, fem. sing. of anaërobius: see anaërobious.]

anaërobism (an-ā'e-rō-bizm), n. [anaërobe + -ism.] That faculty or power of living without oxygen which is possessed by some micro-or-

ganisms, particularly certain bacteria. anaëro-oxydase (an-ā'e-rō-ok'si-dās), n. [Gr. ἀν-priv. + άηρ, air, + oxydase.] Same as *peroxydase.

anesthesia, n.—Crossed anesthesia, a condition in which anesthesia exists on one side of the face and on the opposite side of the body.—General anesthesia, total anesthesia, with loss of consciousness, induced by the inhalation of an anesthetic gas or vapor, such as chloroform, ether, or nitrous oxid.—Infiltration anesthesia, local anesthesia induced by the injection into the subcutaneous tissues, in and about the seat of operation, of large quantities of a very weak solution of co-caine or other local anesthetic.—Local anesthesia, anesthesia, anesthesia anesthesia induced by the injection of a solution of covaine, or other substance of similar action, or by the application of cold.—Medullary amesthesia, anesthesia induced by injection beneath the membranes covering the spinal cord of a solution of cocaine or other substance with similar action. The anesthesia so produced is very wide in its extent, but there is no loss of consciousness, as in general anesthesia induced by one agent, as nitrous-oxid gas, and maintained by another, as chloroform or ether.—Primary anesthesia, insensibility to pain occurring soon after the administration of ether is begun. It is of brief duration, but is usually long enough to permit of the extraction of a tooth or for the incision into a boil.—Spinal anesthesia is a circumscribed portion of the body due to a lesion of the spinal cord. (b) Same as medullary *anesthesia.—Surgical anesthesia. (c) anesthesiant, a. and n. See anesthesiant.

**anesthesiant*, a. and n. See anesthesiant.
**anesthesiant*, a. and n. See anesthesiant.
**anesthesiant*, a. and ethyl chlorid recommended as an anesthetic in place of the mixture of alcohol, chloroform, and ether.

**Anagallis* (an-a-gal'is), n. [NL., < L. anagallis,

Anagallis (an-a-gal'is), n. [NL., < L. anagallis,

 ⟨Gr. ἀναγαλλίς, pimpernel.] An annual, biannual, or perennial herb, cultivated in the open, a member of the family Primulaceæ and open, a memoer of the family resumence and sometimes called pimpernel. Only the annual species are known in America. A. arcensis is commonly known as poor man's weather-plass. Twelve species are known in the temperate zones of Europe, Africa, east Asia, and South America.

anagap (ä-nä-gäp'), n. [Philippine Sp. anagap, anagat, from a native dialect.] In the Philippine islands, a tree, Pithecolobium lobatum, belonging to the mimosa family, having bipin-nate leaves with a single pair of leaflets and a large pod deeply lobed along its lower suture into round divisions. The wood is durable, fine-grained, brittle, and of a yellowish-gray color. It is used in construction and for furniture.

nture.

anagenesis (an-a-jen'e-sis), n. [Gr. avá, up, + > ενεσις, origin: see genetic.] Evolution by means of the acquiring of characters and of increasing complexity and differentiation. Hyatt. anagenetic (an'a-je-net'ik), a. Tending to the advancement or progressive development of organisms. Hyatt, Biol. Lect., p. 146. [Rare.] anagerontic (an'a-je-ron'tik), a. [Gr. avá, up. + ενων (νεων-), an old man: see gerontic.] + γέρων (γεροντ-), an old man: see gerontic.]
Noting the early portion of the gerontic or senile period in the development of an organism. Hyatt.

ism. Hyatt.
anaglyph, n. 2. In photog., a kind of picture, invented by Ducos du Hauron, with two images invented by Ducos du Hauron, with two images printed nearly in superposition, one in red and the other in greenish blue. On viewing this double image through a pair of eye-glasses, one blue and the other red, the image is seen stereoscopically. On reversing the glasses the opposite effect, or pseudoscopic vision, is the result. Three-color heliochromy has also been applied to the anaglyph. When two slides from a stereoscopic negative, one with a red image and the other with a blue, are projected on a screen together, they appear stereoscopically when viewed through colored glasses.

cally when viewed through colored glasses.

anaglyphoscope (an-a-glif'ō-skōp), n. [ana-gliph + Gr. σκοπείν, view.] In photog., a pair of eye-glasses, one red and the other greenish blue, for viewing anaglyphs so as to produce a stereoscopic effect.

anago (ä-nä'gō), n. [Jap. anago.] The Japanese name of an eel of the family Leptocephalides, Congrellus anago, found at Nagasaki.

anagyrine (a-naj'i-rin), n. [Anagyris +-ine².] An alkaloid, $C_{16}H_{22}N_{2}O$, found in Anagyris fatida. The free base forms a gummy, amorphous mass. It has a powerful toxic action.

Anakim (an'a-kim), n. pl. [Heb. 'anakim, pl. of 'Anak', etym. unknown: in one view, from 'anak, neck.] A pre-Canaanite tribe mentioned in the Old Testament, otherwise called 'the Anak' or 'the sons of Anak,' and, as usual in regard to outlying tribes of which little is known, reputed to be giants.

Anal glands. See *gland.—Anal margin, the posterior margin of an insect's wing when expanded.—Anal nerve or vein, the posterior nerve or vein of an insect's wing when expanded.—Anal spot, in the Infusoria, the spot where the waste-products of digestion are ejected. Parker and Hancell, Zoology, I. 81.—Anal vesicle. See *posicle.

analcite-basalt (a-nal'sīt-ba-sâlt'), n. See

analcitite (a-nal'si-tit), n. [analcite + -ite².] In petrog., a basaltic rock rich in primary analcite and without olivin: proposed by Pirson, 1896.

analoptic, a. II. n. In med., a remedy which averts a rectanting or inviganting action.

exerts a restorative or invigorating action. Buck, Med. Handbook, II. 694.

Buck, med. Handbook, 11. 694.

analgene (an-al'jēn), n. [analg(ic) + -enc.]Ortho-ethoxyanabenzoylaminoquinoline, C_9 - $H_5N(OC_2H_5)NHCOC_8H_5$. It is a white crystalline powder, insoluble in water, used in the treatment of neuralgia.

analgesin (an-al'gē-sin), n. Same as antipyrin. analge (an-al'jik), a. [Gr. $\dot{a}va\lambda\gamma\dot{\eta}c$, painless, $\langle \dot{a}v$ - priv. + $d\lambda\gamma\sigma_c$, pain.] Same as analgetic. Buck, Med. Handbook, V. 865. analog, n. A simplified spelling of analogue. Analogous tissues, in pathol., morbid tissues resembling in their structure normal tissues.

analogy, n.—Convergent analogy, resemblance between organisms or organs which is due to independent modification on similar lines and not to inheritance from a common ancestor.—Kirkwood's analogy, in astron., a supposed but now discredited law, announced in 1849, connecting the distances of the planets and their masses with their axial rotations by an equation in form analogous to that which expresses Kepler's harmonic law, analonbie (an-a-lof'ik) of (for dya'n up. +

analophic (an-a-lof'ik), a. [Gr. ἀνά, up, + λόφος, crest.] In craniom., having the incisor crest in the anterior nasal aperture confined to the posterior part of the floor of the nares. Harrison Allen, Jour. Acad. Nat. Sci. X. 419.

analphabetic, a. 2. Non-alphabetic.—Analphabetic symbols, in phonetics, symbols or signs which do not denote sounds, but components of sounds, each simple sound being represented by a group of symbols resembling a chemical formula, in much the same way as it wight be taken to represent 'lip-teeth-voice.'

analphabetism (an-al'fa-bet-izm), n. 1. Illight in the same way as the same

literacy; ignorance even of the alphabet .-In phonetics, a system of representing the articulations of speech-sounds by means of analphabetic symbols, proposed by Professor I. Otto Jespersen of Copenhagen in 1889. See

*analphabetic.
analysis, n. 5. In cricket, an itemized record of the play of the bowler, intended to show particularly the number of runs scored by him and the number of wickets obtained.—6. In chem., intentionally produced decomposition: often applied to the ascertainment of the composition of a substance, whether the constituents are actually obtained in separate form or not.—Capillary analysis, a system of chemical analysis based upon the fact that solutions of different substances are propagated at different velocities by capillary attraction through porous material: used chiefly in the detection of different coloring matters in a mixture.—Partition analysis, a calculus founded upon the theory of partitions, an important part of combinatory analysis.—Polariscopic analysis. See *polariscopic.—Spherical harmonic analysis.

Analytic proof, algebraical proof; proof depending upon a careful analysis of the problem: opposed to synthetic proof, which appeals to intuition or common-sense and is thus not strictly apodictic.

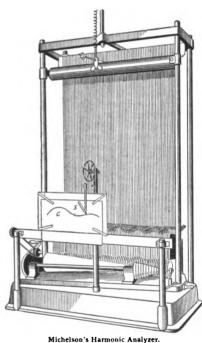
is thus not strictly apodictic.

Analytical reference, an entry in a library catalogue relating to a particular chapter or section of a book, and referring the reader to the heading under which the book itself is entered. Sometimes also called simply an analytical.—Analytical variation, variety. See **variation, **variety.*

Analytics, n. pl.—Thermal analytics, the mathematical or, more specifically, the algebraic analysis of the theory of heat.

Analytics n.—Hermania analysis and define for

analyzer, n. — Harmonic analyzer, a device for determining the harmonic elements of a periodic curve.



c, curve; s, stylus.

All periodic curves may be regarded as made up of one or more sine-curves, harmonically related to each other as regards frequency. By means of a machine so constructed as to impart to a stylus a linear oscillatory motion which is the resultant of the various simple harmonic motions which go to make up a given curve, it is possible to trace the curve in question upon a surface moving uniformly under the stylus. On the other hand, if the form of curve is given it is possible to determine by means of a suitable mechanism the amplitude and frequency of the elements of which it is the resultant. A machine of the latter description is called a harmonic analyzer. Such machines have been devised by Kelvin, Michelson, and others. That of Kelvin was constructed with special reference to the analysis of the tides. Since the number of harmonic elements in a periodic curve may be indefinitely great, the mechanical analysis is in some cases only approximate. The harmonic analyzer of Michelson, however, which permits of a determination of 80 different elements, gives a very close approximation for most curves.

Rammestic (an-am-e-sit'ik), a. [anamesite +

anamesitic (an-am-e-sit'ik), a. [anamesite + -ic.] In lithol., having the structure or appearance of anamesite. Smithsonian Rep., 1899,

anametadromous (an - a - me - tad'rō - mus), a.

[Gr. ἀνά, back. + μετά, beyond, + -δρομος, < anangioid (an-an'ji-oid), α. [Gr. ἀν- priv. + δραμεῖν, run.] In bryol., having the nerves of the weaker pinnules anadromous and those of the stronger catadromous.

Anangioid (an-an'ji-oid), α. [Gr. ἀν- priv. + ἀγχεῖον, a vessel, + -οid.] Having no retinal blood-vessels.—Anangioid disk, the retinal disk when without blood-vessels. the stronger catadromous.

Anamirta (an-a-mer'ta), n. A genus of climbing plants of the moonseed family (Menispermaceæ), a synonym of Cocculus. A. paniculata C. Cocculus) furnishes cocculus indicus or fish-berries.

anamirtin (an-a-mer'tin), n. A crystalline substance, $C_{19}H_{24}O_{10}$, found in small amount, with picrotoxin, in the seeds of *Cocculus* Cocculus. It is slightly bitter and not poison-

anamnesic (an-am-nē'sik), a. [anamnesia + -ic.] Endowed with a good memory; disposed to remember. G. S. Hall, Adolescence, I. 345.

anamniote (an-am'ni-ōt), a. and n. [Gr. avpriv. + NL. amniotus, amniote.] I. a. Not amniote; having no amnion in the fetal state; anamniotic.

II. n. A member of the Anamnionata. 11. n. A member of the Anamnionata.

anamoname (an-a-mon'ēn), n. [Gr. ἀνά, up, back, + *μόναινα, assumed form ('one-pronged staff'), from μόνος, single, parallel to τρίαινα, a trident.] In the nomenclature of the spicular elements of sponges, a triæne which has undergone atrophy of two of its axial arms or cladisks, the third being reflected on the fourth, giving the spicule the form of a gaff-hook. See sponge-spicule.

Anamonament (an-a-môr'fik), a Partaining to

sponge-spicule.

anamorphic (an-a-môr'fik), a. Pertaining to or resulting from anamorphism. Van Hise, U. S. Geol. Surv., Monograph 47, p. 169.

anamorphism (an-a-môr'fizm), n. In geol., that variety of metamorphism which takes place below the zone in which cavities may exist. It results in the production of new minosels under an difference of great procures. exist. It results in the production of new minerals under conditions of great pressure. Van Hise, U. S. Geol. Surv., Monograph 47, p. 167.—zone of anamorphism, the deep-seated zone of the earth in which anamorphism takes place.

anamorphote (an-a-mor fot), a. [From the assumed stem of anamorphosis.] Causing anamorphosis. distortive.—Anamorphote lens in

sumed stem of anamorphosis.] Causing anamorphosis; distortive.—Anamorphote lens in photog., a lens having a cylindric element and therefore distorting the image like a cylindric mirror. Wall, Dict. of Photog., p. 82.

ananaplas (ä-nä-nä'pläs), n. [Tagalog (†).] A valuable timber-tree, Albizzia procera, belongvaluable timber-tree, Albizzia procera, belonging to the mimosa family. Its heart-wood is hard and durable, of a brown color with alternate lighter and darker bands, and a straight grain. It is used for posts in house-building, and for making rice-pounders and parts of agricultural implements and machinery. The bark is astringent and is used for tanning, and the tree yields a gum soluble in water. [Philippine Is.]

Ananas oil, ethyl or amyl butyrate diluted with alcohol: used to imitate the odor of the pineapple in confectionery, soda-water syrups, and perfumery. Also called ananas or pineapple esence.—Essence of ananas, an artificial flavoring essence possessing the odor of pineapple; ethyl butyrate, C3H7.CO.OC2H5 (which see, under butyrate).

Ananchytidæ (an-an-kit'i-dē), n. pl. [NL., < Ananchytes +-idæ.] A family of spatangoid echinoids, most of whose representatives are extinct and belonged to Cretaceous time.

ananeanic (an'a-nē-an'ik), a. [Gr. avá, up, +

extinct and belonged to Cretaceous time.

ananeanic (an'a-nē-an'ik), a. [Gr. avā, up, +
veavias, a youth: see neanic.] Noting the early
portion of the neanic or youthful period in the
development of an organism. Hyatt.

ananeplastic (an'a-nē-pi-as'tik), a. Noting the
earliest expression of the nepiastic substage
in the ontogeny of the compound individual or
colony, as the bryozoan Fenestella. See *nepiastic.

ananepionic (an-a-nē-pi-on'ik), a. [NL., < Gr. aνά, up, + νήπιος, infant.] In the terms of auxology or the development of the individual, noting a growth condition approaching the nanionic stage. See **Evenionic** Contracting the nepionic stage. See *nepionic. Contrasted with *paranepionic, which designates the phase which immediately follows the nepionic. The ananepionic stage is one of immature growth and directly follows the larval phase. The word was introduced by Hyatt with special reference to the stages of growth and decline in the fossil cephalonds.

For about half a volution or less, the shell is smooth For about hair a volution or less, the snei is smooth, although lines of growth become more pronounced. At more or less regular intervals stronger lines of growth appear (ananepionic). In the later portion of the nepionic stage (metanepionic) longitudinal wrinkles or ribs appear which characterize the ambital portion of the whorl, and may be traced upward to the suture between the two whorls.

Amer. Nat., Aug. 1903, p. 518.

whorls.

Amer. Nat., Aug. 1903, p. 518.

anangian (an-an'ji-an), a. [Gr. av priv. +
ayyeiov, a vessel.] Having no vascular system:
applied to certain polychetous annelids in
which the celomic fluid, whose corpuseles
contain hemoglobin, is carried to the various
organs of the body by the action of ciliate
cells which cover the peritoneum along certain
definite tracts. definite tracts.

Anangioida (an'an-ji-oi'dä), n. pl. [NL.: see anangioid.] A collective name for those mam mals in which the retina has no blood-vessels. [NL.: see Philos. Trans. Roy. Soc. Lond., ser. B, 194, p. 68. anangiotic (an-an-ji-ot'ik), a. Same as *an-

anangious (an-an'ji-us), a. Having no retinal blood-vessels; anangioid.

blood-vessels; anangioid.

Although these creatures [Chiroptera] are so highly specialised, typical Vespertilionides occurred already in the Eocene. . . The eyes of these nocturnal creatures are very small, anangious, and devoid of any traces of higher development, except that they are also without any traces of ancestral vestiges, besides the rather common rudiment of the hyaloid artery.

Philos. Trans. Roy. Soc. Lond., ser. B, 194, p. 68.

anantherum (an'au-the'rum), n.; pl. ananthera (-rā). [NL., < Gr. à-priv. + NL. anthera, anther.] In bot., a filament without an anther; a staminode.

ananym (an'a-nim), n. [Erroneously for *anonym², < Gr. ανά, back, + δνομα, δνυμα, name.]
A name written backward, as Noremac for

anaoxytrisme (an-a-ok-si-trī'ēn), n. [Gr. $\dot{a}v\dot{a}$, up, back, + $\dot{b}\dot{\xi}\dot{\nu}\dot{c}$, sharp, + $\tau\rho\dot{a}a\nu a$, a trident.] In the nomenclature of the spicular elements in sponges, a form of anatrisene in which the branches are all acute. See *anatrisene and

sponge-spicule.

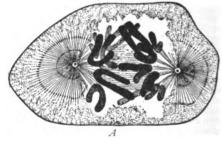
anapaite (a-nā'pa-īt), n. [Named (by A. Sachs, 1902) \(Anapa \) (see def.) + ite².] A hydrated phosphate of ferrous iron and calcium occurrent. ring in colorless triclinic crystals and also in massive forms: found at Anapa on the Black sea.

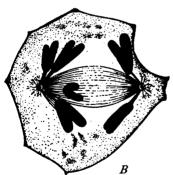
anapanapa (ä-nä'pä-nä'pä), n. [Hawaiian.]

A name in Hawaii of a widely distributed shrub, Colubrina Asiatica, the bark of which

is used for soap.

anaphase (an'a-fāz), n. [NL. anaphasis, < Gr. άνά, back, again, + φάσις, appearance, phase.]
In cytol., a stage in mitosis, or karyokinetic





Anaphases of mitosis in cells (spermatocytes) of the salamander. (Drüner.) Magnified.

A. Anaphase: divergence of the daughter-chromosomes, exposing the central spindle as the interzonal fibers; contractile fibers (principal cones of Van Beneden) clearly shown. B. Later anaphase (dyaster of Flemming); the central spindle fully exposed to view; mantle fibers attached to the chromosomes. Immediately afterward the cell divides.

cell-division, characterized by the moving apart of the chromosomes destined to enter the two daughter-nuclei. Strasburger, 1884. anaphasis (a-naf'a-sis), n. [NL.] Same as

*anaphase.

anaphase. anaphia (a-naf'i-s), n. [Gr. $\dot{a}\nu$ - priv. + $\dot{a}\phi\dot{\eta}$, a touching, $\langle \dot{a}\pi\tau\epsilon\dot{\nu} \rangle$, touch. Cf. Gr. $\dot{a}\nu a\phi\dot{\eta}_{\zeta}$, not to be touched.] In pathol., loss of the sense of touch. Baldwin, Dict. of Philos. and Psychol.,

anaphoria (an-a-fō'ri-ä), n. [NL., ζ Gr. *ava-φορος, ζ αναφέρειν, carry back: see anaphora.]
The tendency of the axes of vision in the two eyes to assume too high a plane. Med. Record, April 18, 1903.

anaphylembryonic (an'a-fil-em-bri-on'ik), a. Noting the earliest expression of the phylembryonic substage in the ontogeny of any organism. See *phylembryonic.

That it is probably not the most primitive type of gastropod is suggested by the consideration that the earliest stage (ana-phylembryonic) of the protoconch is not colled, but rather cap-shaped like modern Patella.

Amer. Nat., Dec., 1902, p. 921.

anaplasia (an'a-pla'si-ä), n. [NL., < Gr. aváπλασις, reformation, adjustment, < ἀναπλάσσειν, reform, mold anew, < ἀνά, again, + πλάσσειν, form.] 1. In pathol., the sum of the morphological, structural, chemical, and other alterations which cells undergo when assuming the characteristics of malignancy .- 2. Same as *anaplasis.

anaplasis (an-ap'la-sis), n. [NL., < Gr. ava- anaplasis (an-ap´la-sis), n. [NL., < Gr. ἀνά-πλάσειν, reform, renew, restore.] In biol., the history or course of an organic type during the period or stage of anastasis (an-as´ta-sis), n. [NL., < Gr. ἀνά-its rise, as distinguished from the period of its rise, as distinguished from the period of its period of its decline or decadence (*cataplasis) and the period of its decline or decadence (*cataplasis).
 Lin med., a condition of increasing health and vigor; convalescence.—2. Resturction Taeckel.

Anapterygota (an-ap-ter-i-gō'tā), n. pl. [NL., appar. ⟨ Gr. ἀνά, back, again, + πτερυγωτός, winged, ⟨ πτέρυξ (πτερυγ-), wing.] A group of insects (including the orders Mallophaga and Siphonaptera and the suborder Anoplura) which contains only wingless forms, which, however, are supposed to have descended from the suborded anapter of the suborder Anoplura) winged ancestors.

anapterygotism (an-ap-ter-i-gō'tizm), n. [Anapterygota + -ism.] In entom., a condition of winglessness attained, usually through a parasitic life, by forms with a winged ancestry.

In these facts we have a clue to the change from ex-opterygotism to endopterygotism, namely, by an inter-mediate period of anapterygotism. Encyc. Brit., XXIX. 508.

anapterygotous (an-ap-ter-i-gō'tus), a. In entom., wingless, although derived from winged ancestors, as the Mallophaga, Siphonaptera, and Anoplura.

These cases render it highly probable that insects may in some circumstances become wingless, though their ancestors were winged. Such insects have been styled anapterypotous.

Such insects have been styled Encyc. Brit., XXIX. 503.

anaptyxis (an-ap-tik'sis), n. [Gr. ἀνάπτυξις, an opening, unfolding, ⟨ἀναπτίσσειν, unfold, ⟨ἀνά, back, + πτύσσειν, fold.] In phonetics, the involuntary utterance of an auxiliary vowel, especially before r, l, m, and n, in certain positions, as in lucre, able, chasm, etc.

anaqua (an-ä'kwä), n. Same as anagua. See knackassay.

automatically

Anarrhichthyinæ (an-a-rik-thi-i'nē), n. pl. [Anarrhichthys + -inæ.] The subfamily of wolf-fishes typified by the genus Anarrhich-

Anarrhichthys (an-a-rik'this), n. [NL. irreg. (Gr. ἀναρρ(ιχὰσθαι), clamber up, + ἰχθυς, fish.]
A genus of wolf-fishes of the family Anarrhichadidæ. It is distinguished by the very long and tapering tail, whence the name wolf-eel. A. occilatus is found on the coast of California and reaches a length of 8 feet.

Anarsia (an-är'si-ä), n. [NL. (Zeller, 1839), ⟨ Gr. aνάρσιος, unfavorable, hostile, ⟨ aν- priv. + ἀρσιος, fitting ⟨ *ἀρειν, fit.] A genus of Microlepidoptera, of the family Gelecthiidæ, containing, among others, the very injurious A. lineatella, whose larva bores into the twigs and fruit of the peach in Europe and North Amer-

anarthropod (an-är'thrō-pod), a. and n. [As Anarthropod-a.] I. a. Without articulated appendages; having the characters of the Anarthropoda.

II. n. One of the Anarthropoda.

[an-5 +Anaryan (an-ăr'yan or -ar'ian), a. [an-5 + Aryan.] Non-Aryan; noting a people which

speaks a language that does not belong to the Aryan family. Deniker, Races of Man, p. 334.

Aryan family. Deniker, Races of Man, p. 334.

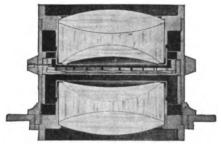
anascope (an'a-skōp), n. [Gr. ἀνά, up, + σκοπείν, view.] Än optical arrangement which enables one to view the image in a camera anatomicobiological (an-a-tom'i-kō-bī-ō-loj'iright side up. Woodbury, Eneye. Diet. of Photog., p. 35.

tog., p. 33. Anaspida (an-as'pi-dä), n. pl. [NL., \langle Gr. $\dot{a}v$ -priv. + $\dot{a}\sigma\pi ic$, shield.] An ordinal term introduced by Traquair for a group of singular fishes, chiefly from the Upper Silurian rocks of Lanarkshire, without paired fins and having a tubercled skin, a heterocercal tail, and a row of prominent processes along the belly. In some of the species, as Birkenia elegans, the branchial openings are a series of small lateral perforations. amaspidean (an-as-pidé-an), a. and n. I. a. Pertaining to or having the characters of the

anastatic, a. 2. In bot., reviving after desicanastatic, a. 2. In our., 1977, 1978, cation, as so-called resurrection-plants.

cation, as so-called resurrection-plants.

anastigmat (an-as'tig-mat), n. [G. anastigmat: see anastigmatic.] A system of lenses in which the astigmatic aberration is overcome and a flat field obtained. It is of special use in photography. There are various forms with special tradenames, as collinears, planars, protars, unars, etc.—Convertible anastigmat (called in German satzanastigmat), a combination of two Zeiss anastigmats which for many purposes can be used separately.—Double anastigmat, a combination of two triple cemented lenses, each anastigmatically aplanatic. Such a system, invented by Van Hoegh, was put out in 1892 by the Goerz firm.



Double Anastigmat.

sitions, as in lucre, able, chasm, etc.

anaqua (an-ā'kwā), n. Same as anagua. See knackaway.

anarcestean (an-ār-ses'tē-an), a. [Anarceste(s) + -an.] 1. Pertaining to the Devonian cephalopod Anarcestes.—2. Noting a condition or growth-stage in any goniatite equivalent, in the development of the septa, to the mature condition in Anarcestes.

Anarcestea (an = anarcestes.—2. Noting a condition or growth-stage in any goniatite equivalent, in the development of the septa, to the mature condition in Anarcestes.

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Anarcestea (an = anagua n, in certain positions with different trade-names have been since added by the same firm, each with its own special advantages.—Universal symmetric anastigmat.

Several forms with different trade-names have been since added by the same firm, each with its own special advantages.—Universal symmetric anastigmat, a very rapid system of lenses covering a view-angle of 65° and consisting of two triple cemented lenses.

Anarcestes.—2. Noting a condition or growth-stage in any goniatite equivalent, in the development of the septa, to the mature condition in Anarcestes.

Anarcestes (an = anagua n) (anagua portions of the same canal, usually the digestive tract, not previously in continuity.

condition in Anarcestes.

Anarcestes (an-ār-ses'tēz), n. [NL., said to be formed \(\) Gr. \(\alpha \)- priv. \(+ \) Arcestes, a genus of ammonites.] A genus of ammonoid cephalopods or goniatites of primitive structure, having very simple septal sutures with single broad lateral lobes. It is of Devonian age.

anarcestian, \(a \). Same as \(* \) anarcestean.

anarithmoscope (an-a-rith'm\(\bar{o} \)- sk\(\bar{o} \)), \(n \). An abounctical antern having slides which are changed automatically. anastomotica (an-as-to-mot l-kg), n. See dr-axis.] In neurol., having no neuraxon or axis-teria anastomotica.—Anastomotica magna. (a) A branch of the brachial artery supplying the parts about the elbow and anastomosing with other branches of the brachial and of the ulna. (b) A branch of the femoral artery supplying the parts about the knee-joint and anastomosing with other articular branches of the femoral and tibial arterles.

See anaxonia. [Gr. $\dot{a}y = \dot{b}$]

Ancecerite (an-ases'e-rit), n. [Irreg. $\langle Gr. \dot{a}y \neq h \rangle$]

Anastrophia (an-a-stro'fi-ä), n. [NL., (Gr. avaorpoon, a twisting about: see anastrophe.]
A genus of pentameraceous brachiopods from

the Silurian and Devonian rocks.

anat. An abbreviation of anatomy and anatomical.

Anathema cup. See *cup.

anathesis (a-nath'e-sis), n. [Gr. ἀνάθεσις, a putting off, ⟨ἀνατθέναι, put off, etc.: see anathema.] Vowel-mutation; umlaut: a proposed

The peduncie of an antenna.

Ancestral forms, the ancestors of an organism in any remote generations considered collectively.

—Ancestral heredity, inheritance. See *inheritance.

Anchieta bark. See *bark 2.

Anchieta bark. See *bark 2.

The peduncie of an antenna.

ema.] Vowel-mutation; umlaut: a proposed term, scarcely used. See mutation.

Anatinacea (a-nat-i-nā'sē-ā), n. pl. [NL... (Anatina + -acea.] A suborder of Eulameilli-Anatina + -acea.] A suborder of Entamelti-branchiata. It includes the bivalve mollusks which have the external branchial fold directed dorsally, not reflected, sexes united, male and female reproductive glands with separate orifices, mantle edges largely united, byssus generally lacking, two adductor muscles, pallial line variable, and shell usually nacreous within. Among the families included are Anatinide. Pandoride. Pho-ladomyide, and Clavagellide. Both living and fossil forms are found.

anatinacean (a-nat-i-nā'si-an), a. and n. I. a. Pertaining to or having the characters of the Anatinacea.

II. n. One of the Anatinacea.

Anatolian ware. See *ware².
anatomicobiological (an-a-tom'i-kō-bī-ō-loj'i-kal), a. Anatomical with a view to biology; treating of biology as illustrated by anatomy: as, an anatomicobiological thesis.

anatomicopathological (an-a-tom'i-kō-path-ō-loj'i-kal), a. Relating to pathological anatomy

anatomobiological (a-nat'ō-mō-bī-ō-loj'i-

kal), a. Same as *anatomicopathological.
anatomopathological (a-nat*o-mo-path-o-loj'i-kal), a. Same as *anatomicopathological.
Smithsonian Rep. 1890, p. 635.

Smithsonian Rep. 1890, p. 635.

Anatomy, n.—Medical anatomy, descriptive anatomy of the heart, lungs, and other parts, the diseases of which are not usually amenable to surgical treatment.—
Morbid anatomy. Same as pathological anatomy.—
Plastic anatomy, surface anatomy in its relation to art.—
Practical anatomy. Same as anatomy in the relation to art.—
Practical anatomy. Same as anatomy, 1.—Surface anatomy, the study of the markings and configuration of the surface of the body.

anatrepsis (an-a-trep'sis), n. [NL., ⟨Gr. ἀνά, back, + τρέψις, a turning.] In embryol., that movement of certain insect embryos which brings them back to the ventral surface of the volk after they have moved away from it.

yolk after they have moved away from it. Wheeler, 1893.

Wheeler, 1895.

anatrisme (an-a-trī'ēn), n. [Gr. $\dot{a}\nu\dot{a}$, up, back, $+\tau\rho\dot{a}a\nu\dot{a}$, a trident.] In the nomenclature of the spicular elements of sponges, a straight cylindrical rhabd at the end of which three prongs or cladisks bent backward make a form like that of an auchor with three arms. It belongs to the tetraxial system of spicules. See sponge-

spicule.

anatriptic (an-a-trip'tik), a. [anatripsis (-tript-) + -ic.] Frictional; specifically, in med., of or pertaining to the use of rubbing or friction for remedial purposes.

anauca (ä-nä-ö'kä), n. [Native name.] A tree of the bean family, Erythrina umbrosa, a native of northeastern South America, which is used as a shade-tree in the cultivation of

is used as a shade-tree in the cultivation of cacao. Also called *bucare (which see). [Trini-

anautotomic (an-â-tō-tom'ik), a. Not self-intersecting.

Anautotomic, unicuspidal, bleuspidal and tricuspidal quartics admit of a subsidiary division depending on the number of points of undulation they possess; and it must be borne in mind that, although it is convenient to use the term point of undulation, it is the tangent at this point and not the point itself which is the actual singularity.

Nature, Nov. 27, 1902, p. 80.

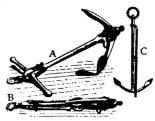
anaxial (an-ak'si-al), a. [Gr. av- priv. + L. axis, axis, + -al.] Without a definite axis or

axis, axis, τ -at.] Without a definite axis or axes; of irregular or asymmetrical form. anaxile (an-ak'sil), a. [Gr. a\nu-priv. + L. axis, axis: see axile.] Noting such independent elements or spicules of sponge skeletons as do not show derivation from the uniaxial, tetraxial, or hexactinellid type. Such spicules are spherical, cylindrical, discoid, or stellate.

anaxone (an-ak'sōn), a. [Gr. $\dot{a}v$ - priv. + $\dot{a}\xi\omega v$, axis.] In neurol., having no neuraxon or axis-cylinder: said of certain nerve-cells. Buck, Med. Handbook, II. 334.

ancecerite (an-ses'e-rit), n. [Irreg. < Gr. αγκή, the bent arm, + κέρας, horn, + -ite².] In crustaceans, a curved projection at the base of the peduncle of an antenna.

chapelet, 4.— Anchor system, the mnemonic system according to which the ideas to which the ideas to be remembered are rendered readily recoverable by being deliberately associated with other ideas that are, either by familiarity or by their striking character, already easily recoverable. Thus it is an application of the



Folding Anchor. A, anchor open: B, anchor closed: C, shifting stock anchor with stock stowed.

anchor system to remember the map of Italy by its similarity to a boot. Also called peg system.—Folding anchor, a boot's anchor having a stock and fluxes which, when not in use, can be folded against the shank for convenience in stowing on board. Several styles are in use.—Shiftingstock anchor, a boat's anchor in which the stock is kept in place by a pin and, when not in use, can be laid against the shank for convenience in handling.—Stockless anchor, a boat's anchor having pivoted fluxes which fall into the holding position without the aid of a stock.

America.

ancons (an-kō'nš), n. [ML. ancona, an image, anchor ate. 2. As amplied to the spicules of a crucifix. preprocessor of the spicules of a crucifix.

anchorate, a. 2. As applied to the spicules of the sponges, having a pronged anchor-shaped arrangement at one or both ends, especially in the monactinellids.

II. n. An anchorate spicule.

anchor-ax (ang kor-aks) n. An anchor-shaped ax of stone, formerly used by the natives of Brazil.

a support or platform on the deck, forward, on which the heavy anchors are secured when not in use. In war-ships these beds are usually recessed below the deck-level to keep the anchors out of the line of fire of the large guns. anchor-bolt, n. 2. A long bolt which serves to hold down a steam-engine or other piece of machinery to the masonry foundation on which it rests. The bolt passes down through the bed or baseplate and far enough into the foundation to be securely held at its lower end by plates or other holding-devices to anchor it in place. When the nut above the bed-plate is tightened down, the machine is securely fastened to the mass of the foundation.

anchor-bracket(ang'kor-brak'et), n. A bracket

anchor-bracket(ang'kor-brak'et), n. A bracket
or block which carries the fulcrum of a lever; a bracket to which the stationary end of a

brake-band is attached.

anchor-crane (ang'kor-krān). n. In shipbuild-ing, a crane mounted on the deck of a ship for handling the anchor from the hawse-pipe to the bill-board or anchor-bed after the anchor is weighed. See cut of *battle-ship.

anchor-dragger (ang'kor-drag'er), n. One who makes a business of 'dragging' harbors and other anchoring-places for ships' anchors which have been lost during gales or otherwise. W. M. Davis, Elem. Phys. Geog. anchored, p. a. 4. In billiards, said of two object-balls which, with the cue-ball near, straddle a short line close to the cushion, because a player can hold them long in that po-

stradule a snort line close to the cusnion, because a player can hold them long in that position by playing alternately from side to side. This is possible only in games of balk-line billiards, and since 1893 has been barred among the best players.

anchor-light (ang'kor-lit), n. The light exhibited on anchored vessels between sunset and suprise.

and sunrise.—Anchor-light law, that section of the international regulations of July 1, 1897, which provides for lighting anchored vessels in such a manner as to prevent collisions.

anchor-line (ang'kor-lin), n. A line attached to a small buoy and to one fluke of an anchor: used in towing a raft of logs and to free the anchor when fast to rocks or snags. [U. S.]

anchor-money (ang'kor-mun'i), n. An English colonial coinage, so named from its device, first struck for Mauritius in 1820.

anchor-plate, n. 3. Naut., the metal resting-place for the fluke of the anchor when the lat-ter is fished. See fish¹, 6 (b).

anchor-rod (ang'kor-rod), n. The rod or bolt which connects the bed-plate of an engine to an anchor-plate buried in the foundation.

anchor-wing (ang'kor-wing), n. The Australian black-cheeked falcon, Falco melanogenys: so named from the fancied resemblance of its outspread wings to the flukes of an anchor.

outspread wings to the flukes of an anchor.

Anchovia (an-chō'vi-ā), n. [NL., < E. anchovy.] A genus of anchovies of the family Engraulididæ, now usually defined so as to include nearly all the tropical species. It is distinguished from the anchovies of temperate regions (Engraulis) by the fewer vertebræ. Also wrongly called Stotephorus.

anchovy."

Ancona (an-kō'nā), n. [ML. ancona, an image, a crucifix, prop. "ancon; cf. L. ancon, a console or volute, < Gr. αγκών, a bend, a jutting angle in a wall, etc.: see ancon.] An altarpiece or group of pictures elaborately mounted in an architectural setting.

This altar-piece now hangs on the north wall of the choir of the Collegiata. It is a Gothic ancona in which four scenes are represented.

L. Douglas, in Burlington Mag., I. 309.

Brazil.

anchor-bar (ang'kor-bär), n. A wooden handspike used for prying the anchor off the billboard, that is, the resting-place of the fluke.

anchor-beam (ang'kor-bēm), n. A steel or iron beam forming a part of the anchorage of the cables or chains of a suspension-bridge.

anchor-bed (ang'kor-bed), n. In shipbuilding, a support or platform on the deck, forward, on which the heavy anchors are secured when not and cerium occurring in from yellow to brown and cerium occurring in from yellow to brown

ancylite (an'si-lit), n. [Gr. αγκύλος, crooked, + -ite².] A hydrated carbonate of strontium and cerium occurring in from yellow to brown orthorhombic crystals with curved faces: found in southern Greenland.

Ancylocladus (an - si - lok 'la - dus), n. [NL. (Kuntze, 1891; proposed but not established by Wallich in 1832), named in allusion to the contorted tendrils, $\langle Gr. \dot{a} \gamma \kappa \dot{\nu} \lambda \rho \varsigma$, crooked, curved, + κλάδος, branch.] An apocynaceous genus of plants improperly known as Willughbeia. See Willughbeia.

Ancylopoda (an-si-lop'ō-dä), n. pl. [NL., ζ Gr. αγκύλος, crooked, + πούς (ποδ-), a foot.] An order of extinct ungulate mammals, proposed by Cope for such genera as Ancylothe-rium and Chalicotherium, based on fragmentary remains from the early Tertiary deposits.

Relating ancylopodous (an-si-lop'ō-dus), a. Relating to or resembling in structure or appearance

the Ancylopoda.

ancylostome (an-sil'ō-stōm), n. [Gr. ἀγκίλος, bent, + στόμα, mouth.] A blood-sucking parasitic worm of the genus Uncinaria, sometimes found in the human intestine.

ancylostomiasis (an-si-los-tō-mi'a-sis), n. [NL., \(\lambda ncylostoma \) (see def.) + -iasis.] A disease characterized chiefly by a profound anemia, sometimes associated with dirt-eating as cause or effect, due to the presence of one of several species of blood-sucking intestinal parasites of the genus Ancylostoma. Also called dochmiasis, uncinariasis, tunnel-disease, brickmakers' or miners' anemia, and Egyptian chlorosis.

Anda-assu oil. See *oil.

andabatarian (an-dab-a-tā'ri-an), a. [andab-ata + -arian.] Pertaining to or characteristic of an andabata or gladiator who fought blindfolded; hence, misdirected: said of blind, struggling endeavor.

andalusitic (an-dg-lū-sit'ik), a. [andalusite +

-ic.] Containing or resembling and alusite.

And aman bullet-wood. See *bullet-wood.

andante, a. Special varieties of movement or style are indicated by adding other terms, as: andante con moto, in flowing style, with some quickness; andante ma non troppo, in flowing style, but not too slow; andante cantabile, with the movement of a song; andante maestose, with a stately movement; andante pastorale, in the easy style of a pastoral melody.

Andaquies wax. See wax^2 .

Anderson process. See *process.

andesite, n.—Trachytic andesite. See *asperite
andirine (an-di'rin), n. [Andira + -ine².]
Same as *surinamine.

Also called sundtite and webnerite.

Andrewaee (an-drē-ē-ā'sē-ē), n. pl. [NL., < androgynic (an'drē-jin'ik), a. Having Andrewa + -accæ.] Á family of mosses containing the genus Andrewa only. For characters see Andrewa. For characters see Andrewa.

androlepsia (an-drē-lep'si-\bar{a}), n. [Gr.

male. Compare *gynoclexis. Ward, Pure So.

maie. Compass and ciol., p. 361.
andreia (an-dri's), n. pl. [Gr. avôpeia, neut. pl. of avôpeioc, adj., of men, (avíp (avôp-), man.]
In Gr. antiq., public meals, especially in Crete

andreion (an-dri'on), n.; pl. andreia (-ξ). [Perhaps for Gr. ἀνδρειών, ἀνδρεών, Attic ἀνδρών, m., the men's hall (see andronitis); otherwise ζ Gr. *ἀνδρεῖον, Cretan ἀνδρήμον, a public hall where meals were served: see *andrcia.] A hall in which public meals were served.

Whether Labyrinth, Palace, or Andreion, it is evident that the prehistoric building, as yet so imperfectly known to us, belongs to the great age of Mycense.

Brans, Cretan Pictographs, p. 12.

andrenoid (an'dre-noid), a. Having the characteristics or appearance of a bee of the family Andrenidæ.

Andreoli process. See *process.
andrewsite (an'dro-zit), n. [Named after
Thomas Andrews (1813-86).] A hydrated phosphate of iron and copper occurring in bluishgreen radiate forms: found in Cornwall.

green radiate forms: found in Cornwall.

Andrias (an'dri-as), n. [NL., < Gr. ἀνδριάς, an image of man, < ἀνδρι (ἀνδρ-), man.] The generic name given by Tschudi to the giant salamander from the Miocene of Œningen, the amains of which when found were regarded as human and were characterized by Scheuchzer as *Homo diluvii testis*. Andrias scheuchzeri attained a length of one meter, and there

is a smaller species of the same geologic age.

androcentric (an-dro-sen'trik), a. [Gr. ανήρ
(ἀνόρο-), a male, + κέντρον, center.] Centering
around the male; relating to the theory that

around the male; relating to the theory that all animal life normally centers around the male. Ward, Pure Sociol., p. 291.

androclinium (an-drō-klin'i-um), n.; pl. androclinia (-a). [NL. < Gr. aνήρ (ανόρ-), man (male), + κλίνη, couch.] See clinandrium.

androconia (an-drō-kō'ni-a), n. pl. [NL., < Gr. aνήρ (ἀνόρο-), male, + (f) κόνις, dust.] Certain specialized scales occurring in limited areas on the wings of the males of certain Lepidoptera. They function as scent-scales and arise from scent. tera. They function as scent-scales and arise from scent-glands situated in folds of the wing. Androconia-like scales have also been found on the wings of a caddis-fly (Mystaciades punctata).—Androconia glands, groups of formative specialized cells which secrete an odorous

androcracy (an-drok'ra-si), n. [Gr. ανήρ (ἀνδρο-), man, + κρατείν, govern.] Authority and rule by man; hence, society organized on the basis of male supremacy. Compare gynecocracy. Ward, Pure Sociol., p. 341.

androcratic (an-dro-krat'ik), a. Pertaining

to androcracy or the supremacy of man over woman in social relations, or having the quality of such supremacy. Ward, Pure Sociol., p. 399.

androdiæcism (an'dro-di-e'sizm), a. The character of being androdiccious.

Androdiacism signifies that the same species has both male and hermaphrodite plants.

Henslow, Origin of Floral Struct., p. 227.

androgametangium (an'drō-gam-e-tan'ji-um), n.; pl. androgametangia (-š). [NL., ζ Gr. ἀνήρ (ἀνδρ-), male, + γαμέτης, spouse (see gam-ete), + αγγείον, vessel.] Same as antheridium.

androgamete (an-dro-gam'ēt), n. [Gr. ανήρ (ἀνόρ-), male + γαμέτης, spouse (see gamete).] In hot., a male sexual cell.

androgenetic (an'drō-jē-net'ik), a. [Gr. ἀνήρ (ανδρ-), male, + E. genetic.] Productive of males only.—Androgenetic parthenogenesis, the production of males alone from unfertilized eggs; arrhenotoky. See *homoparthenogenesis.

Same as *surinamine.

andorite (an'dō-rīt), n. [Andor (Andor von Semsey (†), a Hungarian) + -ite².] A sulphid of antimony, lead, and silver occurring in steel-gray orthorhombic crystals with brilliant metallic luster: found in Hungary and Bolivia.

Andorite (an'dō-rīt), n. [Andor (Andor von androgonidia (-ā), [NL., Gr. avīp (avð-p-) male, + NL. gonidium.] 1. One of the male cells formed in Volvox which later subdivides into numerous spermatozoöids. Cohn. -2. Same as androspore.

Having two roditic. Syd.

tinguished from the anchovies of temperate regions (Engraulis) by the fewer vertebre. Also wrongly called Stolephorus.

anchovy, n.—Silvery anchovy, a name of Anchovia browni, found on the Atlantic coast of North America.

Ancient house, one which has stood long enough to acquire an easement of support.

Ancientism (ān' shent-izm), n. [ancient + -ism.] Favor to things ancient; the belief that ancient times were better than the present.

J. W. Powell, First An. Rep. Bur. Ethnol., p. 33.

taining the genus Andreæa only. For characters of characters of mosses of the family Andreæa.

Soc. Lex.

androlepsia (an-drō-lep'si-š), n. [Gr. ἀνδρο-ληψία, seizure of men.] In international law, the seizure by one nation of the citizens or subjects of another, and the holding of them, to compel the performance of an act by the latter in favor of the former. Also androlepsy.

Andreæa + -ales] An order of mosses coextensive with the family Andreæace.

andreclexis (an-drē-ē-ā'lēz), n. pl. [NL., < Gr. androlepsy (an'drō-lep-si), n. Same as *an-drolepsia.

androlepsia (an-drō-lep'si-š), n. [Gr. ἀνδρο-κρία, seizure of men.] In international law, the seizure by one nation of the citizens or subjects of another, and the holding of them, to compel the performance of an act by the latter in favor of the former. Also androlepsy (an'drō-lep-si), n. Same as *an-drolepsia.

androlepsia (an-drō-lep'si-š), n. [Gr. ἀνδρο-κρία, seizure of men.] In international law, andreæa-coux subjects of another, and the holding of them, to compel the performance of an act by the family Andreæa-cex.

androlepsia (an-drō-lep'si-š), n. [Gr. ἀνδρο-κρία (an-drō-lep'si-š), n. [Gr. ἀνδρο-κ

science of individual man, physiological and Anemia2 (a-nē'mi-ă), n. psychological.

Man is preëminently the psychic animal, so that human psychology is set over against the other attributes of man, which are grouped under the term somatology; therefore man studied as a human body gives rise to the science of somatology and the science of psychology. To these two sciences as a group I give the name andrology, while andrology and demology constitute antiropology, which is the customary term; but as the science is coordinate with the greater systems, I shall use the term anthroponomy.

J. W. Powell, in Amer. Anthropologist, Oct.-Dec., 1901.

andromedid (an-drom'e-did), n. [Lit. 'descendant of Andromeda'; \(\) Andromeda + -id2.] Same as andromed.

andromedotoxin (an-drom'e-dō-tok'sin), n. [Andromeda, a genus of plants, + toxin.] Same as *asebotoxin. Yearbook U. S. Dept. Agr. 1897, p. 97.

andromonœcism (an'drō-mō-nō'sizm), n. [andromonæc(ious) + -ism.] The character or condition of being andromonœcious.

Andromonæcism signifies that the same plant bears both male and hermaphrodite flowers.

Henslow, Origin of Floral Struct., p. 227.

andronia (an-drô'ni-a), n. [NL., \langle Gr. $avh\rho$ ($avh\rho$ -), man (?).] A name given by Winterl in 1800 to a supposed new earth which was shown by a committee of the French Academy of Sciences to be merely a mixture of well-known substances.

androphobia (an-drō-fō'bi-8), n. [NL., \langle Gr. $\dot{a}\nu\eta\rho$ ($\dot{a}\nu\delta\rho$ -), man, $\dot{+}$ - $\dot{\phi}o\beta ia$, \langle $\dot{\phi}o\beta\epsilon i\nu$, fear.] Fear of or repugnance to the male sex. androphore, n. 1. (b) A stalk supporting an

andrœcium.

androphyl (an'drō-fil), a. [Gr. ἀνήρ (ἀνδρ-), male, + φύλλον, leaf.] A male sporophyl; a stamen.

androplasm (an'drō-plazm), n. The material that is supposed, by Haeckel and others, to enter into the composition of male cells and to give them their distinctive character, and to be unlike anything that enters into the composition of female cells.

This "sex-sense" of the two genocytes, or elective affinity of the male androplasm and the female gynoplasm, is the cause of mutual attraction and union.

Hackei (trans.), Wonders of Life, p. 245.

androrhopy (an-dror'ō-pi), n. [Gr. avhp, male, + porh, downward inclination.] The state or condition of a species in which the males depart more widely than the females from the ancestral condition, as exhibited by the young of both sexes or by allied species.

or ooth sexes or by allied species.

Androsace (an-dros'a-sē), n. [NL., < L. androsaces, < Gr. ἀνόροσακες, an uncertain plant.] A genus of small tufted perennial plants of the family Primulaceæ, commonly called rock-jasmine, cultivated in alpine gardens. The only species much known in the United States are Λ. languinosa, Λ. sarmentosa, Λ. carnea, and Λ. eximsa. There are about 50 species, most of which are found in the mountains of the northern hemisphere.

androsporangium (an-drō-spō-ran'ji-um), n.; pl. androsporangia (-ä). [Gr. ἀνήρ (ἀνδρ-), male, + NL., sporangium.] A sporangium contain-

ing androspores. ing androspores.

androtauric (an-drō-tâ'rik), a. [Gr. ἀνήρ (ἀνδρ-)
man, + ταὐρος, bull.] In Gr. antiq., a term
applied to mythologic monsters in which the
forms of bull and man are combined, as an androcephalous bull or a taurocephalous man.

ane. 3. A suffix applied to the names of classes in the quantitative classification of igneous rocks. See *rock1.

anecdoted (an'ek-dō-ted), p. a. Made the arbitist of an endoted.

subject of an anecdote.

It is a story they tell in Rome, where everybody is needoted.

W. D. Howells, Ital. Jour., p. 170.

anectobranchiate (a-nek-tō-brang'ki-āt), a. [Gr. ἀν-, priv. + ἐκτός, without, + βράγχια, gills.] Having no external gills, as the Melonitoida among echinoids.

anelectrotonically (an-ē-lek-trō-ton'i-kal-i), adv. In a manner having relation to anelectrotonically

trotonus.

trotonus.

anemia!, n.—Brickmakers' or miners' anemia, anemia due to the presence of Ancylostoma in the intestine.

—Polar anemia, a condition of blood impoverishment to which explorers and others wintering in the polar regions are liable: probably due to lack of fresh food, the inability to take sufficient exercise, and the absence of sunlight. — Primary anemia, anemia arising from no discoverable cause. — Secondary anemia, anemia due to some manifest cause, such as frequent losses of blood, malaria, cancer, etc. — Splenic anemia, a condition in which anemia is associated with enlargement of the spleen, but without enlargement of the lymphatic glands.

Anemia² (a-nē'mi-ā), n. [NL. (Swartz, 1806), irreg. (Gr. aveiμων, naked.] A genus of small, simply pinnate or decompound, schizæaceous ferns, characterized by having the ovate, sessile sporangia borne biserially upon the two sile sporangia borne biserially upon the two elongate, rachiform-paniculate, lowermost pinnæ, or, if the genus is accepted in a wide sense, sometimes upon separate fertile fronds. Strictly delimited, the bulk of the species usually referred here will be placed under Ornithopteris, a genus technically distinguished from the typical America by its free venation. The species are mainly tropical American. Anemic by its free *gangrene.

Anemic gangrene. See *gangrene.

anemobarrometer (an'e mō ba rom'e -ter), n.

An instrument consisting of two tubes leading from closed vessels containing barometers up to a free exposure to the wind. One tube opens to the windward so that its barometer indicates the static atmospheric pressure plus the wind-pressure; the other tube opens to the leeward and gives the atmospheric pressure diminished by the wind-pressure or some portion thereof. From a comparison of the two readings one obtains the correct air-pressure and wind-pressure separately. As modified in 1887, only one tube is used, opening into the space between two horizontal planes.

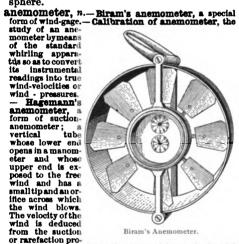
anemochore (a-nem'ō-kōr), n. [Gr. ἀνεμος, wind, + χωρείν, spread abroad.] In phytogeog., a plant whose seed is disseminated by the wind,

as by means of pappus, etc. F. E. Clements.

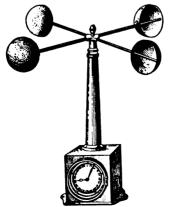
anemochorous (an-e-mok'ō-rus), a. [anemochore + -ous.] Having the character of an anemochore. F. E. Clements.

anemogen (a-nem'ō-jen), n. [F. anemogène; Gr. āveμος, wind, + -γεν/κ, -producing.] An apparatus for experimentally producing, measuring, and studying currents of air analogous to the natural currents in the earth's atmosphere. sphere.

wind-velocities or wind - pressures. — Hagemann's anemometer, a form of suction-anemometer; a vertical tube whose lower end whose lower end opens in a manometer and whose upper end is exposed to the free wind and has a small tip and an orifice across which the wind blows. The velocity of the wind is deduced from the suction or rarefaction pro-



wind is deduced from the suction or the suction or rarefaction produced within the tube by the action of the wind. Special modifications of this instrument have been introduced by Abbe and Dines.—Helicoidal anemometer, a modification of Woltman's anemometer in which the radia arms are dispensed with and plates bent into helicoidal surfaces, similar to those of the screw-propeller, are used to receive the impulse of the wind.—Hooke's anemometer, the pendulum anemometer; a plate of metal hung as a pendulum broadside to the wind, and whose deflection from the vertical cau be measured on a scale. First described in 1666.—Lander's anemometer, an anemometer (more properly anemograph) in which a delicately counterpoised rubber bellows is inflated by the pressure of the wind and lifts a small conical float suspended in glycerin so as to damp its oscillations. The movement of the float and the direction of the wind are both recorded.—Reflecting anemometer, the name originally given to what is better known as Aimé's nephosope.—Robinson's anemometer, four hollow hemispheric metallic cups revolving, when exposed to the wind, on a vertical axis, to which they are attached by



arms crossing at right angles. The motion is transmitted by an appropriate mechanism to a hand over the dial where the velocity of the wind is indicated.

anemophily (an-e-mof'i-li), n. [anemophil(ons) + y³.] In bot., the fact or character of being anemophilous.

anemophobia (an'e-mō-fō'bi-ä), n. [Gr. ἀνεμος, wind, + -φοβία, fear.] A morbid fear of high winds. G. S. Hall, Adolescence, II. 185.

winds. G. S. Hall, Adolescence, II. 185.

anemotropic (a-nem-ō-trop'ik), a. [Gr. ἀνεμος, wind, + τρόπος, a turning.] Concerning or pertaining to the attitude or movement of organisms in relation to the direction of the wind.

anemotropism (an-e-mot'rō-pizm), n. [anemotropism (an-e-mot'rō-pizm), n. [anemotropism or the attitude of their bodies in relation to the direction of the wind.

This peculiarity . . . is an orientation of the body with respect to the wind. As it appears to be a true tropism I shall call it anemotropism.

W. M. Wheeler, Archiv f. Entwicklungsmechanik, 8. 878.

anencephalotrophic (an-en-sef'a-lō-trof'ik), a. Characterized by anencephalotrophia or

a. Characterized by anencephalotrophia or atrophy of the brain.

anephebic (an-e-fē'bik), a. [Gr. ἀνά, up, + ἐρηβος, adult: see ephebic.] The early portion of the ephebic or adult stage in the development of an organism. Hyatt.

aneretic, a. See anæretic.

aneretic, a. See anæretic.

aneretic, a. [NL., ⟨Gr. ἀνεργία, a doubted reading, equiv. to ἀεργία (cf. ἀνεργος, not done), ⟨άν- priv. + ἔργον, work.] Lack of energy; passivity. Also anergy.

anèrgic (an-èr'jik), a. [anergia + -ic.] Deficient in energy.

anergic (an-er jik), a. [anergia + -ic.] Dencient in energy.

anergy (an-er ji), n. [NL. anergia.] Same as *anergia.

aneson (a-nē'son), n. An aqueous solution of

aneson (a-ne son), n. An aqueous solution of acetone-chloroform.

anesthetic, a.—Anesthetic ether, leprosy. See stherl, 3 (b), lepra.—Schleich's anesthetic mixture, a mixture of ether, petroleum ether, and chloroform, used by inhalation in the production of general anesthesia.

anethical (an-eth'i-kal), a. Devoid of ethical (unlity-neither ethical proporties blief).

aneurical (an-eth i-kai), a. Devoid of ethical quality; neither ethical nor anti-ethical. Ward, Pure Sociol., p. 303.

aneuria (a-nū'ri-ā), n. [NL., < Gr. ἀνευρος, without sinews (nerves), < ά- priv. + νεύρον, sinew: see nerve.] Lack of nerve force.

aneuric (a-nū'rik), a. Lacking in nerve force; neuvesthenia.

snew: see nerve.] Lack of herve force; neurasthenic.

aneurism, n. 2. In thermom., an enlargement of the capillary tube of the thermometer. Tait, in Nature, XXV. 90.—Rxternal aneurism, dilatation of an artery outside of the visceral cavities of the body and therefore accessible to surgical methods of treatment. Also called anyical aneurism.—Gelatin treatment for aneurism, the administration of gelatin, which has the property of rendering the blood more coagulable and therefore favors clotting within the aneurismal sac.—Internal aneurism, dilatation of an artery within one of the cavities of the body and which is therefore not amenable to surgical treatment. Also called *medical aneurism.—Medical aneurisms, amoute aneurisms affecting one or more of the small arteries of the brain, rupture of which is a common cause of apoplexy.—Racemose aneurism, a condition of dilatation, lengthening, and tortuosity of the blood-vessels (arteries, capillaries, and veins) of a part.—Surgical aneurism. Same as external *aneurism.—Valvular aneurism, a cavity containing blood and sometimes pus, formed between the layers of one of the valves of the heart.—Worm aneurism, an aneurism in horses caused by roundworm larve belonging to the species Strongylus vulgaris.

Aneurism-needle (an 'ū-rizm-nē'dl), n. A

aneurism-needle (an'ū-rizm-nē'dl), n. A curved, blunt-pointed rod with an eye at the point, used for passing a ligature around an artery which it is desired to obliterate in the treatment of aneurism.

angarep (an'ga-rep), n. [Native name in Abyssinia (†). Appar. not in Egyptian Ar.] A light bedstead used by the Arabs, consisting of a simple framework set upon legs and covered simple framework set upon legs and covered with a network of green rawhide which hardens to the tightness of a drum when dry. On this is laid the mat. Sir S. W. Baker, Nile Trib. Abyssinia (ed. 1867), p. 113.

angarilla (än-gä-rēl'yä), n. [Sp.; in pl. a hand-barrow, panniers, etc.] 1. A litter.—2. pl. In South America, a pair of uncovered boxes made of rawhide, fastened to each end of a pole also covered with hide. The pole is

of a pole also covered with hide. The pole is placed across the back of a mule or a donkey, so that the boxes or chests hang on each side of the animal. Children are frequently carried on long journeys in angaril-

las.
3. A net used for carrying things.
angekok (an'jē-kok), n. [Eskimo angakok.]
Among the Eskimos of Arctic America, a medi-

cine-man; a sorcerer: a shaman.
ingel, n. 6. In modern theat. slang, one who angel, n. 6. In modern theat. stang, one who advances money to put a new play on the boards; a financial backer .- 7. Same as angelfish.—Black angel, a Bahaman name of the chirivita (Pomacanthus paru), a West Indian species of Chatodon-

angel-cake (ān'jel-kāk), n. White sponge-cake.

angeldom (an'jel-dum), n. [angel+-dom.] The realm of angels.

All the light of angeldom.

Mrs. Browning, Drama of Exile, Chorus of Angels, sc. 3.

angel-fish, n.—Yellow angel-fish, the isabelita, Holacanthus ciliaris, a gorgeously colored fish of the West Indies, of the family Chetodontids. Also called blus angel-fish.

angel-food (ān'jel-föd), n. Same as *angel-cake. angelica, n.—Oil of angelica, an essence or essential oil obtained from the seeds of plants of the genus Angelica. angelica-root (an-jel'i-kä-röt), n. The aromatic root of Coleopleurum Gmelini and An-

angelicin (an-jel'i-sin), n. [angelica + -in².]
An amaroid, C₁₈H₃₀O, obtained from Coleopleurum Gmelini. It is crystalline and melts

at 126.5°C.

Angelina (an-je-lī'nā), n. [NL., < Angelin, a Swedish paleontologist.] A genus of trilobites, of which A. sedgwicki is an example, having a conic glabella with faint or no lateral furrows, long genal spines, 15 thoracic segments, and a small pygidium. It is of Upper Cambring and brian age.

angeline (an'je-lin), n. Same as *surinamine. angelito (än-he-lē'tō), n. [Sp., 'little angel'; dim. of angel, angel.] A stingless honey-bee, belonging to the genus Melipona, found in tropical America. It forms its nests in trees, and keeps its honey in cups about the size of eggs.

pigeons eggs.

angelography (ān-je-log'ra-fi), n. A treatise on angels. [Rare.] N. E. D.

Angelonia (an-je-lō'ui-ā), n. [NL.] A genus of perennial herbs and sub-shrubs of the family Scrophulariaceæ, with handsome, irregular, lipped, axillary flowers, grown as not plants in warm glass houses. There are about 24 species in the northern part of South America, Mexico,

and the West Indies.

angico (ån-je'kō), n. [A European (Sp.f) form, also angica, canjica, of a supposed native name in Brazil.] The name in Brazil and Paraguay for a tree of the mimosa family, Stachychrysum rigidum, which yields an extremely hard, durable, dark-brown wood, and a gum similar to gum arabic. Both the gum and the astringent bark are used medicinally by the natives. See Pup-

angiectopia (an'ji-ek-tō'pi-ä), n. [NL., < Gr. aγγείον, vessel, + ἐκτοπος, out of place.] An abnormal position of one or more of the important blood-vessels.

angiitis, n.—Consecutive angiitis, inflammation of the vessels caused by extension of the process from neigh-boring inflamed tissues.

angina, n.—Angina dyspeptica, a spurious angina pectoris caused by gaseous distention of the stomach.

—Vincent's angina, a sore throat resembling diphtheria but associated with the presence of a different variety of becillus.

anginiform (an-jin'i-fôrm), a. [L. angina, angina, + forma, form.] Resembling angina, especially angina pectoris.
angioblast (an'ji-ō-blast), n. [Gr. άγγειον, vessel, + βλαστός, germ.] In embryol., an embryonic cell which takes part in the formative of the blood records and correspond sel, + βλαστός, germ.]
bryonic cell which takes part in the formation of the blood-vessels and-corpuscles.
angloblastic (an'ji-ō-blas'tik), a. 1. Of or pertaining to angioblasts.—2. Forming bloodvessels or -corpuscles.
anglocarpic (an'ji-ō-kār'pik), a. Same as anglocarpic (an'ji-ō-kār'pik), a. Same as anglocarpic (an'ji-ō-kār'pik), a. Same as anglocarpic (an'ji-ō-trīb), n. [Gr. ἀγγείον, vessel, + τρίβεν, rub, crush.] A strong forcepslika instrument used in surgical operations to

angiocarpons.

angioceratoma (an'ji-ō-ser-a-tō'mā), n.; pl.
angioceratomata (-ma-tā). [NL.. (Gr. αγγείον,
vessel, + κέρας (κερατ-), horn, + -oma.] An
eruption of horny reddish nodules caused by hypertrophy of the epidermis over circum-scribed dilatations of the cutaneous capilla-Also angiokeratoma.

angioclast (an' ji-ō-klast), n. [Gr. $\dot{\alpha}$ yyɛiov, vessel, + $\kappa \lambda a \sigma \tau \dot{\alpha}$ y, $\langle \kappa \dot{\alpha} \dot{\alpha} \rangle$, break.] An instrument shaped like a forceps, used to compress a bleeding artery. Buck, Med. Handbook, IV.

angioda (an-ji-ō'dā), n. pl. [NL., < Gr. άγ-γεων, vessel. The form suggests Gr. άγγειώδης, like a vessel, hollow, but the sense differs.]

+ L. fibra, fiber, + -oma.] A mixed angioma and fibroma.

angioid (an'ji-oid), a. [Gr. *aγγειοειδής, άγγει- angle3, n. 6. In projective geom., a piece of a ώδης, (άγγειον, vessel, + είδος, form.] Resemflat pencil bounded by two of the straights bling a blood-vessel or lymphatic. Buck, Med. as sides. See the extract.

Handbook, VI. 955.

angiolithic (an-ji-ō-lith'ik), a. [Gr. αγγείον, vessel, + λίθος, stone.] Noting hardening of the vessels.-Angiolithic degeneration. See *de-

Angioma serpiginosum. [See serpigo.] An eruption of prominent red dots arranged in ring-shaped figures.— Cavernous angioma, a vascular tumor containing large open spaces filled with blood.

open spaces filled with blood.

angiomatosis (an'ji-ō-ma-tō'sis), n. [NL., < angioma(t) +-osis.] A general diseased state of the blood-vessels or lymphatics.

angioneoplasm (an'ji-ō-nē'ō-plazm), n. [Gr. a'y'siov, vessel, + E. neoplasm.] Same as angioma. gioma.

angioneurectomy (an'ji-ō-nū-rek'tō-mi), n. [Gr. ἀγγείου, vessel, + E. neurectomy. Excision of vessels and nerves; specifically, exsection of a portion of the spermatic cord as a means of inducing atrophy of the prostate gland.

Angioneurotic edema, the occurrence of urticarial swellings on the skin and mucous membranes, due to morbid vasomotor action.

angioparalytic (an'ji-ō-par-a-lit'ik), a. [Gr. aγγείον, vessel, + παράλυσις, paralysis, + -ic.] Relating to paralysis of the vasomotor nerves,

resulting in dilatation of the blood-vessels. angiopathy (an-ji-op'a-thi), n. [Gr. $\dot{\alpha}\gamma\gamma\epsilon i\sigma\nu$, vessel, $+\pi \dot{\alpha}\theta\sigma\varsigma$, disease.] Disease of the lympathics or blood-vessels. angiosclerosis (an'ji-ō-sklē-rō'sis), n. [NL., $\langle Gr. \dot{\alpha}\gamma\gamma\epsilon i\sigma\nu$, vessel, $+\sigma\kappa\dot{\alpha}\dot{\gamma}\rho\omega\sigma\iota\varsigma$, hardening.] Fibrous induration of the walls of the vessels, usually of the arteries: arteriesclerosis. Journ

r ibrous induration of the walls of the vessels, usually of the arteries; arteriosclerosis. Jour. Exper. Med., V. 105.

angiosclerotic (an'ji-ō-sklē-rot'ik), a. Pertaining to or characterized by angiosclerosis.

— Angiosclerotic neuritis, degenerative inflammation of an erve-trunk associated with angiosclerosis of its nutritive arteries.

The combination of arteritis with intense degeneration and inflammation of the nerves causes the angioselerotic neuritis of Joffroy and Achard, Dutil and Lamy, and Schlesinger; the vasomotor and sensory irritation without the endarteritis causes acroparenthesia.

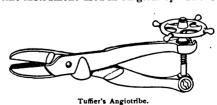
Jour. Exper. Med., V. 106.

angiospastic (an'ji-ō-spas'tik), a. [Gr. ἀγγεῖον, vessel, + σπαστικός, ζ σπᾶν, draw.] Relating to stimulation of the vasomotor nerves; causing contraction of the blood-vessels. Buck, Med. Handbook, IV. 550.
angiospermic (an'ji-ō-sper'mik), a. [angio-

+ -ic.] In the sphere of or pertaining to the Angiospermæ: as, angiospermic evolution; angiospermic anatomy.

Angiosporea (an'ji-ō-spō'rē-ä), n. pl. [NL., \langle Gr. $\dot{a}\gamma$ eiov, vessel, $+\sigma\pi op\dot{a}$, a seed (spore).] A subtribe of cephaline Eugregarinæ having well-developed spores with double sporocysts composed of epispore and endospore. It comprises the families Gregarinidæ, Dactylophoridæ, Actinocephalidæ, Acanthosporidæ, and oth-

angiostenosis (an'ji-ō-stē-nō'sis), n. [NL., ζ Gr. ἀγγείον, vessel, + στένωσις, narrowing, contraction.] Morbid contraction of the bloodvessels.



arrest hemorrhage by crushing the bleeding ressel nemorrhage by crushing the bleeding vessels, hollow, but the sense differs.] A collective name for those mammals in which the retina is provided with blood-vessels.

angiofibroma (an'ji-ō-fi-brō'mā), n.; pl. angio-fibromata (-ma-tā). [NL., < Gr. ἀγγείον, vessel, + τρίψις, < τρίβειν, rub, crush.] The use of the angiotribe in arresting hemorrhage.

Anglaise (ang-glāz'), n. [F. fem. of Anglais,

English. 1 A country-dance; also, the music for such a dance.

A portion of a sheaf of rays bounded by two rays of the sheaf as 'sides' is called a 'complete plane angle.' This consists of two 'simple' angles which are vertically opposite to each other.

T. F. Holaate, Geometry of Position by Reve. p. 12.

Angle of contact. (b) In the mechanics of liquids, the angle \$\text{which}\$ which the surface of a liquid in contact with a solid nakes with the surface of the latter. The angle of contact may be greater or less than 10°. In the former case it does not do so.—Angle of deviation, the angle which a branch or other organ makes with the axis of the plant to which it belongs.—Angle of the plant to which it belongs.—Angle of the plant towhich it belongs.—Angle of field, in photographed, projected by the objective upon the ground-glass, appears as easel heles over from any cause.—Angle of feel, in rated architecture, the angle of transverse inclination measured from the vertical when a vessel hele over from any cause.—Angle of folluling of transverse inclination measured from the vertical when a vessel hele over from any cause.—Angle of mandblass, in formation of its upper segment with the body, and the segment of the long of the long of mandblass, in formation, the angle made by the coordinate axes.—Angle of parallelism, the angle made by one of two parallels with a perpendicular to the other. Lobachevski writes it it (p). In his non-Euclidean geometry it is a function of p, the perpendicular to the other. Lobachevski writes it it (p). In his non-Euclidean geometry it is a function of p, the perpendicular to help to be a superior of the point (object) from which the light enters the system.—Angle of shear, the angle through which the exit-pupil of a system subtends at the focus conjugate to the point (object) from which the light enters the system.—Angle of shear, the angle of mandblay the extremal is displaced.—Angle of shear, the angle of an inclined surface, as of a mountain, with the horizontal plane. Compare angle of propose.—Angle of stability, in mech. the largest angle at which a body placed upon an inclined plane will remain at rest. Same as angle of rypose or angle of propose.—Angle of the attract of the event of a portable buliance cranse can swing, from its pounds and the position of the other can be a pr

tendency for the rolling surface to slip without rolling. When the angle is less than this limiting value the roll tends to slip and to become polygonal from wear. This angle may also be measured from the normal instead of from the tangent. It must be determined for any two materials by experiment, since it bears a relation to the so-called angle of friction or angle of repose in experiments on sliding. An angle beyond the critical value would then be called a non-reposing angle.—Rolandic angle, the angle formed by the upper edge of the hemisphere of the brain and the fissure of Rolando.—Somatosplanchnic angle, the angle formed in the vertebrate embryo by the junction of the somatic and splanchnic layers of mesoblast.—Supplemental angles, two angles whose sum equals two right angles.—Supplementary angles. Same as supplemental *angles.—Tanchord angle, an angle between a tangent to a circle and a chord from the point of contact.—View angle, in photog., the angle inclosed by a lens.

angle3 (ang'gl), v. t.; pret. and pp. angled, ppr. angling. [angle3, n.] To lead off or deflect (a body or element) from a direction parallel or perpendicular to another body or element to which or from which it is to move: as, to angle a rope.

anale a rope.

The continuous change in direction experienced by the rope between the head-gear pulley and the drum in coling on or off (the so-called "angling" of the rope) is a source of wear when the depth becomes considerable. Encyc. Brit., XXVII. 121.

angle-bar, n. 3. In printing, an iron bar which turns at a right angle a printed web of paper and mates it with another printed web.

Two general classes of the web press are made. In one, what is called the "angle-bar" is utilized to turn the sheets in order to assemble them from the different webs. The other is designated the "straight line," the sheet being run through the press without being diverted from a straight course.

Census Bulletin 216 (June 28, 1902), p. 63.

angle-bearing (ang'gl-bar'ing), n. A crankshaft bearing attached to an engine-bed, the center line of its joint being placed at an angle of about 45° with the bed, the purpose of which is to effect that disposition of the metal best calculated to withstand the resultants of the strains due to the motion of the crank and con-Lockwood, Diet. Mech. Eng. Terms

angleberry (ang'gl-ber-i), n. [A perversion of anbury.] A fleshy excrescence found growing on the feet and other parts of sheep and cattle.

Also spelled anleberry.

angle-board (ang'gl-bord), n. A board upon which pattern-makers plane their angles and hollows. It is traversed longitudinally with vee'd grooves of different depths to suit angles of different sizes, in which grooves the stuff is laid while being planed, a transverse strip near the end acting as a stop. Lockwood, Dict. Mech. Eng. Terms.

angle-bulb (ang'gl-bulb), n. A rolled bar of steel or iron, in the form of an angle with a bulb at the lower end of its long arm, used principally for deck-beams on steel ships.

angle-cutter (ang'gl-kut'èr), n. A heavy machine used for cutting iron or steel angle-

angled, a. 2. A term applied to a billiard-ball which, when resting near the edge of a pocket, is so masked by the cushion that it cannot hit

the desired object. angle-frame (ang'gl-frām), n. A type of construction for the frame or skeleton of motorvehicles in which the members that carry the weight and transfer it to the supporting springs, and thus to the axles, are made of steel angle or channel shapes to give greatest strength and stiffness with least weight of material. Sometimes for additional stiffness these angleor channel-irons are reinforced with tough wood securely bolted to the steel. Sci. Amer., LXXXVIII. 91.

angle-gage (ang gl-gāj), n. 1. A gage or standard carefully made to the exact value of the desired angle, used in testing the accuracy of the angles of screw-threads, cutting-tools, or machine-work of any kind.—2. Specifically, an instrument for setting the angle or incline of the top comb of a Heilmann cottoncombing machine. Thornley, Cotton-combing

Machines, p. 166.

angle-hoop (ang'gl-höp), n. A hoop made of angle-iron. Such hoops are sometimes used for stiffening the furnaces in Scotch boilers.

angle-joint (ang'gl-joint), n. In carp., a joint between two pieces which are mitered to-

gether.

angle-meter, n. 2. An instrument designed to show the variations in angular velocity of the revolving shaft of an engine. Sci. Amer. Sup., Oct. 15, 1904.

angle-mirror (ang'gl-mir'or), n. A surveyor's instrument for observing and measuring angles

angle-plate (ang'gl-plat), n. An angle-chuck. angle-prism (ang'gl-prizm), n. An instrument similar to the angle-mirror, employing prisms instead of mirrors.

angler, n. 3. A general name of the pediculate fishes, from the presence of a modified free dorsal spine, or 'fishing-rod,' above the mouth.— Marbled angler, Pterophyne histrio, a fish of the family Antennariade, found in tropical parts of the Atlantic. It is remarkable, as are all of its relatives, for its form, color, and nest-building habits.

Anglesea penny. See *penny.
angle-smith (ang'gl-smith), n. A blacksmith
skilled in forging angle-bars, beams, and other

profiled bars into the various forms in which they are used in shipbuilding.

angle-valve (ang'gl-valv), n. A form of lifting- or spindle-valve, in a globular casing, in which the spindle or stem enters the valve in the same axis as one of the openings, and the other outlet is at right angles to the axis of the spindle; much used with steam-radiators and in other places where a right-angled corner is to be turned and a valve is also required. is to be turned and a valve is also required. The angle-valve opposes less resistance to the flow of fluid through it than the globe-valve.—

Angle check-valve, an angle-valve which opens only to steam or water flowing in one direction.— Angle stop-valve, an angle-valve which has to be closed by hand to stop the flow in the pipes.

angle-wheel (ang'gl-hwēl), n. Any gear in which the teeth, instead of being parallel to the axis, make an angle with it; a helical gear; a twisted coar.

a twisted gear.

angle-wing (ang'gl-wing), n. Any one of several species of nymphalid butterflies whose wings are angular and excised, as species of the genera Vanessa, Polygonia, Aglais, and Eu-

Anglicist (ang'gli-sist), n. One who favors or supports some proposition or movement relating to English or the English: specifically applied in history to one of those who favored the proposal to make the English language (and not Arabic or Sanskrit) the vehicle of instruction in those schools and colleges in India that were subsidized by the government during the administration of Lord William Bentinek (1828-35).

In describing the controversy between the "Orientalists" and the "Anglicists" [of the Committee of Public Instruction] which evoked Macaulay's famous minute . . . not a word is said [in Boulger's Life of Lord William Bentinck] of the champion Orientalist, Horace Wilson.

Athenseum, Sept. 24, 1892, p. 411,

Anglicity (ang-glis'i-ti), n. [NL. *Anglicitas, < LL. Anglicus, Anglic.] Distinctively Eng-lish quality, style, or character: as, Anglicity of speech.

Anglo-African (ang'glō-af'ri-kan), a. and n. I. a. Pertaining to Africans, or persons of African descent, living among English-speaking peoples, as the Africans in the United States. Keane, Ethnology, p. 380.

II. n. An African living among English-speaking peoples.

speaking peoples.

Anglo-American pottery. See *pottery.
Anglo-Asian (ang'glō-ā'shian), a. and n. I. a.
Of or pertaining to England and Asia or to the English in Asia: as, Anglo-Asian enterprises. II. n. An Anglo-Asiatic.

Anglo-Asiatic (ang'glōā-shi-at'ik), a. and n. I. a. 1. Of or pertaining to both England (that is, Great Britain and Ireland) and Asia.—2. Relating to those Asiatics who are British subjects or are under British control, or who have become assimilated to the English in educa-

tion, culture, etc.

II. n. An Asiatic who is under British rule. Anglo-Australian (ang'glō-âs-trā'li-an), a. and n. I. a. Pertaining to Australians of English descent. Keane, Ethnology, p. 380.

II. n. An Australian of English descent.

Anglo-Chinese (ang glo-chi-nes), a. and n. I. a. 1. Of or pertaining to both England and China or to their inhabitants, etc.: as, Anglo-Chinese relations: an Anglo-Chinese alliance.— 2. Established by the English in China or for the Chinese: as, an Anglo-Chinese college.

—3. Written in English and Chinese, or prepared for the use of both English and Chinese readers: as, an Anglo-Chinese calendar; an Anglo-Chinese dictionary.

II. n. A Chinese who is under British rule or who is a British subject: as, the Anglo-Chinese of the Straits Settlements.

and the positions of distant objects in relation to one another. It consists of two mirrors, one being sometimes adjustable to the other, supported in a metal frame.

Anglo-Gallic (ang-glō-gal'ik), a. English and France.

—Anglo-Gallic money. See *money.

angle-plate (ang'gl-plāt), n. An angle-chuck.

angle-prism (ang'gl-prizm), n. An instrument similar to the angle-mirror, amploying prisms similar to the angle-mirror, amploying prisms. same point, taken in a certain order and such that no three consecutive rays are coplanar.

Anglo-Japanese (ang'glō-jap-a-nēs'), a. Of or pertaining to both England and Japan: as, an Anglo-Japanese alliance or understanding. an Anglo-Japanese alliance or understanding.

Anglomanist (ang'glō-mā-nist), n. [Irreg. anglomanist (ang'glō-mā-nist), n. [Irreg. anglomanist anglomanist. Macmillan's Mag., XLV. 475. [Rare.] N. E. D.

A blacksmith cams, and other forms in which cams, and other forms in which anglomanist. Macmillan's Mag., XLV. 475. [Rare.] N. E. D.

Anglomanist. Macmillan's Mag., XLV. 475. [Rare.] I. a. and n. [LL. Angli, Englishmen, + Gr. \$\phi \lambda \chi_0 \c

ners, customs, etc.

When prudence dictated assistance to the Dutch, the Huguenota, or the 'Anglophile' party in Scotland — the vile but convenient adjective is Mr. Beesly's — that aid was scanty and underhand.

Athenseum, March 26, 1892, p. 400.

a. One who admires or is friendly to England; a lover or admirer of English insti-

England; a lover or admirer of English institutions, social life, manners, customs, etc.

Anglophone (ang'glō-fôn), n. [LGr. "Αγγλοι, L. Angli, the Angles (English), + φωνή, sound.]

A person who speaks the English language.

Deniker, Races of Man, p. 508.

Anglo-Venetian (ang'glō-ve-nē'shian), a. and n. I. a. Connected with both England and Venice; specifically of Venetian origin but domiciled in England: as, an Anglo-Venetian seaman. Geog. Jour. (R. G. S.), XIII. 205.

II. n. A Venetian domiciled in or engaged in the service of England.

II. n. A Venetian domiciled in or engaged in the service of England.

Anglovernacular (ang*glō-ver-nak'ū-lār), a. Of or pertaining to both English and the vernacular: as, an Anglovernacular school. Encyc. Brit., XXX. 467. [Rare.]

ango (8ng'ō), n. [Native name.] In Samoa, a name applied to the turmeric-plant (Curcuma longa), the fleshy rhizome of which yields a yellow coloring matter which the natives use in ornamenting their bark cloth and for painting their skin. See turmeric and huldee.

angogenrin (an-gog-tō'rin), n. [Angogenra +

angosturin (an-gos-tö'rin), n. [Angostura + -in²] A compound, with the empirical formula C₉H₁₂O₅, found in Angostura bark. It is bitter and is apparently a glucoside.

Angoumian (an-go'mi-an), a. and n. [F. Angoumois, a former name of the district (department of Charente) in which Angoulème is situated.] I. a. In geol., noting a division or substage of the Cretaceous system as recognized by the French geologists and constituting the upper part of the Turonian: essentially equivalent to the English Middle Chalk of the

Upper Cretaceous.

II. n. The Angoumian division.

Angoumois grain-moth. See *grain-moth.
Angræcum (an-grē'kum), n. [NL.] A genus
of epiphytal orchids of tropical Africa, Madaof epiphytal ordinas of tropical Allica, Manua-gascur, and Japan. There are at least 25 species known, of which the following are most common in cultivation in America: A. articulatum, citratum, dis-tichum, churneum, Ellisii, Humboltii, falcatum, Leonis, modestum, pertusum, and superbum. Most of these species need warm-house treatment.

angrite (ang'grit), n. [Angra (Angra dos Reis in Brazil, locality of a meteorite) + -ite².] See *meteorite.

angster (äng'ster), n. [Late MHG. (Swiss)
angster.] An early Swiss copper coin, struck
in Zürich, of the value of half a rapen, or seven welfths of a German pfennig.

Angström pyrheliometer, unit. See *actinometer and *unit.

Anguillula stercoralis, a parasitic species of worm which has been found in the intestine in certain cases of tropical diarrhea. *Jour. Exper. Med.*, VI. 84.

diarrhea. Jour. Exper. Med., VI. 84.

anguilluloid (ang-gwil'ū-loid), a. [Anguillula + -oid.] Eel-like; resembling the Anguillula.

angular, a. 5. In astrol., placed in one of the four angles of a nativity. Raphael, Manual of Astrol., p. 154.—Angular acceleration. See *acceleration and unit of angular *acceleration.—Angular energy. See *energy.—Angular lead. See *lead!.—Angular leaf. spot. See *lead!.—Angular momentum. See *momentum.—Angular point, the vertex; the point common to the two rays of an angle.—Unit of angular velocity, the velocity which causes a rotating body to turn through a unit angle in unit time; an angular velocity of one radian per second.

II. n. In ichth., a small bone on the lower posterior corner of the articulare same as angular bone.

anqular bone.



angularization (ang'gū-la-ri-zā'shon), n. The act of angularizing or rendering angular; in decorative art, the transformation of a curved

decorative art, the transformation of a curved motive into a rectilinear one by the use of angles. Haddon, Evolution in Art, p. 112.

angularize (ang'gū-la-rīz), v. t.; pret. and pp. angularized, ppr. angularizing. [angular + -ize.] To render angular. Haddon, Evolution in Art, p. 112.

Angulatidæ (an-gū-lat'i-dē), n. pl. [NL., < Angulata, a group of the ammonites, + -idæ.] A family of ammonoid cephalopods or ammonites. ites. They have compressed umbilicate shells with strong continuous ribs crossing the whorls and interrupted on the outer edge by a depressed zone. The septast sutures are highly complicated. Species occur in the Lias formation.

anguliform (ang'gū-li-form'), a. [L. angulus, angle, + forma, form.] Bluntly pointed or bent. Annals and Mag. Nat. Hist., Jan., 1903,

angustisellate (an-gus-ti-sel'āt), a. [L. angustus, narrow, + sella, a saddle.] Having a narrow saddle: noting the form of the earliest septal suture in the coiled cephalopod shells and referring to the narrow saddle or forward prolongation of the suture in crossing the outer curve or venter of the shell. Contrasted with latisellate and assilate. The angustisellate stage characterizes only advanced and late forms of the ammon-

oids. anhaline (an'ha-lin), n. [Anhal(onium) + \cdot ine².] A crystalline alkaloid, $C_{12}H_{15}NO_{3}$, found in Anhalonium fissuratum. It melts at 115° C. It produces, in frogs, a paralysis of the central nervous system. anhalonidine (an-ha-lon'i-din), n. [Anhalon-(ium) + \cdot id + \cdot ine².] An alkaloid, $C_{12}H_{15}NO_{3}$, found in Anhalonium Williamsii, a cactus from which mescal buttons are obtained. It is crystalline and melts at 154° C. is crystalline and melts at 154° C.

is crystainne and meits at 154° C.

anhalonine (an-hal'ō-nin), n. [Anhalon(ium) + -in².] Same as anhalonidine.

anhedonia (an-hē-dō'ni-ā), n. [NL., < Gr. ἀνήδονος, giving no pleasure, < ἀν- priv. + ήδονή, pleasure: see hedonism.] In psychol., inability to feel pleasure: the opposite of analogue in analaesia.

One can distinguish many kinds of pathological depression. Sometimes it is mere passive joylessness and dreariness, discouragement, dejection, lack of taste and zest and spring. Professor Ribot has proposed the name anhedonia to designate this condition.

W. James, Var. of Religious Exper., p. 145.

anhedral (an-hē'dral), a. In mineral. and petrog., characterized by the absence of the external form of a crystal, though having its molecular structure.

anhedron (an-hē'dron), n.; pl. anhedra (-drä). [Gr. $\dot{a}v$ -priv. + $\dot{\epsilon}\dot{o}\rho a$, base (side).] A mineral individual, for example, a constituent of a rock having the molecular structure of a crystal but not its external form.

anhistic (an-his'tik), a. Same as anhistous. anhydrid, n.—Phosphoric anhydrid, phosphorus pentoxid, P₂O₅. By union with the elements of water in different proportions it forms meta-, pyro-, and ortho-phosphoric saids.

anhydrochromic (an-hī-drō-krō'mik), a. Noting the acid ($H_2Cr_2O_7$) which corresponds to ordinary red chromate of potash. Also known

as dichromic acid and pyrochromic acid.

Anhydrous steam. See *steam.

aniconic (an-ī-kon'ik), a. [Gr. ἀν- priv. +εἰκών, an image.] Not presenting an image or portraiture: in Gr. antiq., applied to the rudest agalmata, or symbols of a divinity, consisting of a simple pillar or block without human attributes. See agalma.

He[Dr. Waldstein] does, however, point out that among the terra-cottas we have representations of the various stages of development of her [Hera's] agalmata: the rudest of all, the anikonic. . . . He promises, moreover, to publish . . a curlous pillar which may have been the actual anikonic image of the goddess.

Athenæum, July 1, 1893, p. 38.

anidalin (a-nid'a-lin), n. Same as *aristol.
anil² (än-il'), n. [anil(ine).] A derivative of
aniline containing the group NC₆H₅.
añil (än-yēl'), n. [Sp. añil, lit. indigo: see aniline.] A Cuban name of the blue variety of
the vaqueta, a bass-like fish of the West Indies, Hypoplectrus unicolor (variety indigo of

anilao (ä-nē'lou), n. [Philippine name.] A name in the Philippines of Colona serratifolia, a shrub belonging to the linden family, the bark of which yields a strong bast fiber.

angulare (ang-gū-lā'rē), n. [NL. (sc. os, bone): anilido. [$anil + -id - + -o^1$.] Noting the group see angular.] Same as angular bone (which see, under angular).

angularization (ang'gū-la-ri-zā'shon), n. The an adjective: as, the anilido-group.

aniline *black, *green, *orange, *process. See the nouns.—Aniline salt, a commercial name for the color-less crystalline salt formed by neutralizing aniline with hydrochloric acid. It has the formula C₆H₅NH₂HCl, and is known chemically as aniline hydrochlorid. Large quantities are used in the dyeing and printing of aniline black.—Aniline spirits, yellow. See tin *spirits, *wellow.

anilism (an'i-lizm), n. An illness caused by inhaling the vapor of aniline, not uncommon in workers in aniline-black dye-houses. It

in workers in aniline-black dye-houses. It comes on suddenly, the lips turn purple, and temporary unconsciousness often ensues.

Animal color. See *color.—Animal kingdom. According to recent conservative estimates, the animal kingdom consists of about 386,000 species of living animals and about 180,000 species in all.—Animal mechanics. See *mechanics.—Animal mound. See the extract.

The next class is composed of the "animal mounds," or mounds in which the ground plan is more or less irregular, and is thought to resemble animals, birds, and even human beings, though it is admitted that this resemblance is often imaginary, and that there is no evidence that the builders of these works intended to copy any such forms.

... Mounds of this class are common in Wisconsin, and are also found in Ohio and Georgia. They are not burial mounds, though they are not unfrequently grouped with conical mounds that inclose human remains, as they are also with embankments and inclosures,—the grouping being always without any apparent order. being always without any apparent order.

Smithsonian Report, 1891, p. 559.

Animal photography. See *photography.—Animal pole. See *pole.
animate, a. 4. In gram., referring to living things as indicated by a difference of form in the designating word: said of gender in some languages. See the quotation.

The distinction between animate and inanimate gender still preserved in both Penobscot and Abenaki.

Amer. Anthropologist, Jan.-March, 1902, p. 27.

Animated oat. Same as animal oat; see oat,

animatism (an'i-mā-tizm), n. [animate, a., +
-ism.] That form of animism in which objects

sessing separable souls.

animato (ä-ni-mä'tō), a. [It.] In music, lively;
with animation; usually, somewhat quick and

with spirit.

animatograph (an -i-mat'ō-graf), n. [L. animatus, alive (see animate, a.), + γράφειν, write.]

1. A cinematograph.—2. A special form of photographic camera for taking a series of pictures on films.

photographic cannot tures on films.

anime, n.—Braxilian anime, Same as anime, anime (an-i-mā'), a. [F, \langle L. animatus, animate: see animate, a.] In her., animated, excited; showing a desire to fight: said of an animated represented by giving the eyes, etc., that of the body.

anisocotyly (a-nī-sō-kot'i-li), n. In bot., the unequal development of cotyledons in dicotyledonous plants.

--isocotosis (an-i-sō-sī-tō'sis), n. [NL., \langle Gr.

animetta (an-i-met'ä), n. [It.] A medieval term for the veil or cloth used to cover the

term for the veil or cloth used to cover the chalice or eucharistic cup.

animi, n. Same as anime.

Animikie (an-im-i-kē'), n. [A local name.] A name proposed by T. Sterry Hunt in 1873, and used by the Geological Survey of Canada and by the Natural History Survey of Minnesota, for a group of iron-bearing rocks, slates, schists, and sandstones which form the middle subdivision of the Algorithm as the latter term subdivision of the Algonkian as the latter term is used by the United States Geological Sur-Vey. In Canada the group is regarded as Cambrian in age, but in the Lake Superior district, especially in Minnesota, where these rocks carry the iron ore of the Mesaba range, they are referred to the Precambrian.

animikite (a-nim'i-kīt), n. [Said to be from Ind. animike, thunder, +-ite2.] An antimonide of silver from Silver Islet, Lake Superior.

animosity, n. 3. In Spinoza's philosophy, the desire by which each man endeavors to preserve his own being after the guidance of reason alone; or, as sometimes interpreted, the stead-fast and intelligent purpose to promote one's own welfare.

animotheism (an'i-mō-thē'izm), n. [L. anima, soul, life (or animus, mind?), $+ \theta \epsilon \delta \varsigma$, God, +-ism.] The belief that all things, but especially plants, animals, and the heavenly bodies, are

plants, animals, and the heavenly bodies, are conscious or animate beings, and that they possess supernatural, divine powers. See animism. Ward, Dynamic Sociol., II. 258.

anis, n. A simplified spelling of anise.

anisado (ä-ni-sä'dō), n. [Sp.: see anisated.]

A native drink made in the Philippine Islands. It contains the poisonous principle of wood alcohol, and United States soldiers and em-

ployees have been forbidden its use. Army

and Navy Journal, Dec. 7, 1901.

anisamic (ani-sam'ik), a. [anis(ic) + am(ine) + -ic.] Noting an acid, a derivative of trimethyl benzene, found in balsam of Tolu and

anisated (an'i-sā-ted), p. a. [NL. *anisatus, \ L. anisum, anise.] Mixed or flavored with anise-seed. Syd. Soc. Lex.

Anisian (a-niz'i-an), a. and n. A name given

Anisian (a-niz'i-an), a. and n. A name given by Austrian geologists to a division of the Mediterranean Triassic deposits holding a position at the top of the Lower Trias.

position at the top of the Lower Trias.

anisidine (a-nis'i-din), n. [L. anisum, anise, +-id¹+-ine².] The methyl ether of aminophenol, C₆H₄(NH₂)OCH₃. The name is applied especially to the ortho compound, which is an oil that boils at 218° C., and to the paracompound, a solid which melts at 56° C. and boils at 240° C.—Anisidine ponceau, scarlet. See

**scarlet.

anisil (an'i-sil), n. [L. anisum, anise, +-il.]

The dimethyl ether of paradihydroxybenzil, CH₃OC₆H₄COCOC₆H₄OCH₃. It crystallizes in golden-yellow needles which melt at 133° C.

anisilic (an-i-sil'ik), a. Noting an acid, (C₆H₄-OH)₂C(OH)CO₂H, the dimethyl ether of dihydroxydiphenyl glycolic acid. It is formed together with anisic acid when anisil is bolled with alcoholic potash. It crystallizes in needles which melt at 164° C. It is named officially the dimethyl ether of diphenyloimethanolmethylic acid.

Anisocaratidas (a. ni-sô. so. rat'i adô. n. nl

Anisoceratidæ (a - $n\bar{i}$ - $s\bar{o}$ - se - rat'i - $d\bar{e}$) n. pl. [NL., $\langle Anisoceras (\langle Gr. \dot{a} v i \sigma o_{c}, unequal, + \kappa \epsilon_{-p a} (\kappa c \rho a^{-}), horn), + -i d \epsilon_{c} \rangle$] A family of ammonoid cephalopods or ammonites having uncoiled shells terminating in a crook, the volutions bearing tubercles and ribs. The species are found in the Cretaceous formation.

Anisochætodon (a-nī-sō-kē'tō-don), n. [NL., ⟨Gr. ἀνισος, unequal, + Chætodon.] A genus of butterfly-fishes of the family Chætodontidæ. anisochela (a-nī-sō-kē'lā), n.; pl. anisochelæ (-lē). Same as *anisochele.

-ism.] That form of animism in which objects and phenomena are vaguely regarded as having personality and will-power, but not as possessing separable souls.

animato (ä-ni-mä'tō), a. [It.] In music, lively: of the processes at the two ends. See sponge-

snicule anisocnemic (a-nī-sō-nē'mik), a. [Gr. av-priv. + isocnemic.] In anthozoans, a term used to distinguish a unilateral pair composed of two unequal mesenteries: contrasted with isocnemic.

anisocytosis (an-ī-sō-sī-tō'sis), n. [NL., ⟨ Gr. ἀνσος, unequal, + κίττος, a hollow (a cell), + -osis.] Inequality in size of the cells of a system, specifically of the red blood-corpuscles.

anisogamous (an-i-sog'a-mus), a. Characterized by anisogamy, or conjugation between sharply differentiated male and female gam-

anisogamy (an-i-sog'a-mi), n. [Gr. ἀνισος, unequal, + γάμος, marriage.] In biol., conjugation between dissimilar gametes or reproductive cells.

anisohypercytosis (an"ī-sō-hī"per-sī-tō'sis), n. [NL., \langle Gr. $\dot{a}\nu aoc$, unequal, $+\dot{\nu}\pi\dot{c}\rho$, over, $+\dot{\kappa}\dot{\nu}\tau o$, a hollow (a cell), +-osis.] An increase in the number of the leucocytes, with abnormal percentage relations of the neutrophilic cells, as regards the distribution of the different nuclear forms.

nuclear forms. anisohypocytosis (an'ī-sō-hī'pō-sī-tō'sis), n. [NL., \langle Gr. ἀνσος, unequal. + ὑπό, under, + κύτος, a hollow (a cell), + -osis.] A decrease in the number of the leucocytes with abnormal relations of the neutrophilic cells, as regards the percentage distribution of the different nuclear forms

nuclear forms.

anisoin (an-is-\bar{o}-in), n. [L. anisum, anise, + -in^2.] The dimethyl ether of paradihydroxybenzoin, CH₃OC₆H₄CH₂COC₆H₄OCH₃. It consists of needles which melt at 110° C.

anisol (an'i-sōl), n. [Also anisole †; L. anisum, anise, † -ol.] 1. Methyl phenyl ether, C₆H₅-OCH₃, formed by distilling anisic acid with barium hydroxid. It is an oil with a pleasant cdor and boils at 154° C.—2. A general name of derivatives of methyl phenyl ether.

anisoline (a-nis'ō-lin), n. [As anisol + -ine².]
A basic color of the xanthene group. It is comparatively fast to light. Also called rho-

Anisometric texture, in petrog., the texture of granular rocks when the mineral grains are of various sizes. It is contrasted with the sometric granular texture, where the grains are approximately of the same size.

anisometrope (a-ni'sō-met'rōp), n. [See anisometropia.] One who suffers from anisometropia.]

metropia, or inequality of refraction in the two eyes.

It was thought that anisometropes who fixed correctly could not have binocular vision.

Optical Jour., June 2, 1904, p. 975.

Anisomyaria (a-ni-sō-mi-ā'ri-ā), n. pl. [NL., (Gr. āviσoς, unequal, + μυς (μυ-) muscle, + -aria.] A group of the pelecypod mollusks, or Acephala, holding an intermediate position be-tween the Monomyaria, or those with but one adductor muscle, and the Dimyaria, or those having two, the normal number, fully developed. In the Anisomyaria the anterior adductors are much more prominently developed than the posterior. These muscular differences have frequently been used as a basis of classification; but it is now recognized that the terms Monomyaria and Anisomyaria designate different stages of degeneration in the musculature.

anisomyarian (a-ni-sō-mi-ā'ri-an), a. and n. Pertaining to or having the characters of the Anisomyaria. Also used substantively.

anisonormocytosis (a-ni'sō-nor'mō-si-tō'sis), s. [NL., ⟨Gr. ἀνισος, unequal, + L. norma, rule, norm, + κύτος, a hollow (a cell), + osis.] A normal number of the leucocytes with abnormal relations of the neutrophilic cells, as regards the percentage distribution of the different nuclear forms.

anisophylly (a-ni-sof'i-li), n. [Gr. ἀνισος, unequal, + φύλλον, leaf.] Dissimilarity in leaves due to difference of position, as in floating and

under to difference of position, as in nothing and submersed leaves. *Krasser*. **Anisoplia** (a-ni-sop'il- $\frac{1}{2}$), n. [NL. (Megerle, 1825), \langle Gr. $\frac{1}{2}\nu a_0 c_0$, unequal, $+\frac{1}{2}\delta \pi \lambda a$, arms.] An important genus of lamellicorn beetles of oldworld distribution. It includes some serious pesta, especially *A. Austriaca*, which occasionally does great damage to the wheat crop of Russia. About 40 species are known.

anisopod (a-ni'sō-pod), a. and n. [NL. anisopus (-pod), < Gr. āvaoc, unequal, + πούς (ποδ-), foot.] I. a. Having unequal feet; specifically, having the characters of the Anisopoda.

II. n. One of the Anisopoda.

Anisopoda (a-ni-sop'ō-dā), n. pl. [NL., neut. pl. of anisopus (-pod-): see *anisopod.] A tribe or suborder of arthrostracous crustaceans having a body more or less resembling that of an amphipod, and the abdomen with two-branched amphipod, and the abdomen with two-blanch swimming-feet which do not function as gills, ankylite (an'ki-lit), n. Same as *ancylite or with fin-like feet. It includes the families ankyloglossis (ang'ki-lō-glos'si-k), n. Tanaidæ and Pranizidæ.

Anisoptera (a-nī-sop'te-rā), n. pl. [NL., ζ Gr. ἀνισος, unequal, + πτερόν, wing.] A sub-order of insects of the order Odonata or dragon-flies. It includes the families in which the hind wings are alightly larger than the front wings, as distinguished from the *Zygoptera*, in which the wings are of equal size or the hind pair are somewhat the smaller.

anisospore (a-ni'sō - spōr), n. [NL. *anisospora, < Gr. ἀνασος, unequal, + σπορά, seed (spore).] A form of spore produced among colonial radiolarians by the union of gametes

colonial radiolarians by the union of gametes of unlike size, as microspores and macrospores: contrasted with *isospore, 3.

Anisotremus (a-ni-sō-trē'mus), n. [NL., ⟨Gr. ἀνισος, unequal, + τρῆμα, hole.] A genus of grunts of the family Hæmulonidæ, having numerous species in tropical America. They are remarkable for their broad bodies and sometimes for bright colors. A. surinamensis, the pompon, is the commonest species.

A name sometimes given to an artificially prepared calcium sulphate used by paper-makers.

anisotropic, a. 3. Having predetermined
axes: opposed to isotropic.—Anisotropic medium, a medium in which the strain due to a given stress
varies with the direction in which the stress is applied;
an solotropic medium.

anisotropical (a-nī-sō-trop'i-kal), a. Same as
anisotropic; seolotropic.

A name sometimes given to an artificially prepared calcium sulphate used by paper-makers.
annalism (an'a-lizm), n. The writing of annals. W. Taylor. [Rare.] N. E. D.

Annam ulcer. See *ulcer.

Annam ulcer. See *lamp.

annealing lamp. See *lamp.

A name sometimes given to an artificially prepared calcium sulphate used by paper-makers.

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Anname sometimes given to an artificially prepared calcium sulp

Mr. A. Broca a short time ago stated that in a powerful field there are produced simultaneously both ordinary cathode rays, around the field according to well-known laws, and another kind of rays following the lines of force. These phenomena have likewise been investigated by Mr. Pellat, who accounted for them on the hypothesis of an anisotropical friction the cathode ray particles undergo in the magnetic field.

certain differentiated animal ova: onposed to

certain differentiated animal ova: opposed to isotropy.

anito (8-nē'tō), n. [Tagalog; perhaps altered, under Sp. influences, from an orig. *antu, Malay antu, hantu, a spirit.] An ancestral spirit worshiped as a protecting household deity by the pagan Malay peoples of the Philippine Islands, and frequently represented by an image of wood or other material which is carefully preserved. fully preserved.

But, before Islam, ancestor worship, as has long been known, was widely prevalent. In almost every locality, every hut has its Anto with its special place, its own dwelling; there are Anto pictures and images, certain trees and, indeed, certain animals in which some Anto Smithsonian Rep., 1899, p. 522.

ankee (ang'kē), n. [Indian name in California.] The barn-yard grass Echinochloa Crusgalli, the seeds of which are ground into flour by the Mohave Indians. [Southern California.]

anker, n. and v. A simplified spelling of anchor.

ankle, n.—Cocked ankle, knuckling or partial dislocation of the fetlock-joint of the horse, an unsoundness predisposing the animal to stumbling and to fracture of the pastern-bone.

Animato express annexion or addition; additive: as, an annexive conjunction.

annidalin (a-nid'a-lin), n. See *aristol.

Anniellidæ, n. pl. Same as Aniellidæ.

Anniellidæ, n. pl. Same as Aniellidæ.

annitability (a-ni'hi-la-bil'i-ti), n. The capability of being annihilated. Dr. H. More, Immortal. of the Soul, p. 228.

annotative (an'ō-tā-tiv), a. Of the nature of annotation: as, annotative remarks.

annotative (an'ō-ta-tiv), a. Of the past the same time, the fruit of the past vear persisting, while that of the present year

or shaken they give definite tones. Usually the tubes are in pairs tuned at the interval of the fifth.

ankoot (an'köt), v. i. [Eskimo, angakut, angakok, angekok, a shaman: see angekok.] To perform shamanistic ceremonies: a term used by whalers who frequent Hudson and Baffin bays.

Same as *ancylite.

ankyloglossus (ang' ki-lō-glos'us), n. [Gr. aγκύλος, bent, + γλώσσα, tongue.] Impeded movements of the tongue due to adhesions to the neighboring parts. Also called ankylo-

Grown together: said of bones which are primitively separate.

Ankylostoma (ang-ki-los'tō-mä), n. Same as lostoma.

Ancylostoma.

ankylostomiasis, n. Same as *ancylostomiasis.

anlage (än'lä'ge) n.; pl. anlagen (-gen). [G., foundation, < anlegen, < an, on, + legen, lay, found.] In embryol., the first indication of a developing organ in the embryo; a rudiment, in the sense of a simple beginning.

annaline (an'a-lin), n. [Formation doubtful.]

A name sometimes given to an artificially prepared calcium sulphate used by paper-makers.

steel lined with some refractory material, open at each end, and fitted with a number of gasneld there are produced simultaneously both ordinary cathode rays, around the field according to well-known laws, and another kind of rays following the lines of force. These phenomena have likewise been investigated by Mr. Pellat, who accounted for them on the hypothesis of an anisotropical friction the cathode ray particles undergo in the magnetic field.

Sci. Amer. Sup., Aug. 27, 1904, p. 28960.

anisotropically (a-ni-sō-trop'i-kal-i), adv. In an anisotropic manner.

anisotropy, n. 2. In embryol., the condition of having the axes predetermined: applied to

def.) + -ite². A rare niobate of uranium. yttrium, and other elements, near samarskite in composition but related to columbite in form: found at Anneröd, Norway.

Anneslia (a-nes'li-ä), n. [NL. (Salisbury, 1807), named in honor of George Annesley (1769–1844), Viscount Valentia in Ireland and Earl of Mountmorris, who traveled and botanized in India.] A genus of plants belonging to the family Mi-mosaceæ, to which Bentham in 1840 gave the name Calliandra. See Calliandra.

annexable, annexible (a-neks'a-bl, i-bl), a.
That may be annexed or added; attachable. Cockeram.

annexive (a-nek'siv), a. Expressing or serving to express annexion or addition; additive:

myaria and Antemyaria designate different stages of degeneration in the musculature.

anisomyarian (a-nī-sō-mī-ā'ri-an), a. and n.

Pertaining to or having the characters of the Pertaining to or having the characters of the degeneration in the musculature.

Also need substantively.

Also need substantively.

predisposing the pastern-bone. (Also *anklung(1), Mayer persisting, while that of the present year lay and Jav. anklung.] A musical instrument is growing.

used in Java and other parts of Malaysia, conannouncement, n. 2. In card-playing, a bid;

a meld.

The player [at boston] who makes the highest announcement is entitled, if successful, to the contents of the pool, and a certain number of counters from each of the players; but if he be unsuccessful he must pay to the pool and to each of the other players a certain number of counters.

American Hoyle, p. 248.

annual. I. a.—Annual equation. See *equation.
—Annual range, in meteor., that portion of the total yearly range which may be supposed to be periodic and the simple and direct result of the annual revolution of the total range which may be supposed to be periodic and the simple and direct result of the annual revolution of the earth in its orbit; that portion of the annual range that is represented by the first term of the harmonic series or Fourier-Beasel series, depending on the simple mean longitude of the earth in its orbit around the sum.
—Annual variation, in meteor., the departure from the annual mean; the extreme total range during a year; the difference between the absolute maximum and absolute minimum or between their departures from the annual mean. The normal annual variation is the average of the annual variations for many years and is less than the extreme or absolute variation for those years.—Annual working. See *voorking.

II. n., 3. Plants become annuals because of the limitations of the seasons. Some plants die outright at the approach of cold or dry weather and leave only their seeds to carry the species over to another season; these are the true annuals. Others, truly perennial in their native climates, become annual in short-season climates by being killed by frost; these are ptur-annuals.

Others carry themselves over by means of bulbs; these are pseud-annuals.

annualize (an'ū-al-iz), v. i.; pret. and pp. anannual. I. a.-

annualize (an'ū-al-īz), v. i.; pret. and pp. annualized, ppr. annualizing. To contribute to nualized, ppr. annualizing. To contribute to an annual publication; write for an annual. See annual, 4. [Rare.]

annuity, n.—Consolidated annuities, certain annuities or annual payments representing luterest on various stocks issued by the British government at different times and at different rates, which were consolidated, under an act of 1751, into one fund, commonly known as consols (which see).

Annular kiln. See *kiln.—Annular ligament. (c) A ligament attached at each extremity to a tubercle on the inner surface of the articular process of the atlas, which serves to retain the odontoid process of the axis. (d) The ligament which attaches the stapes to the rim of the fenestra ovalis.

Annularia (an-ū-lā'ri-ā), n. [NL. (Sternberg, 1822), (L. annularis, annular.] A genus of fossil plants of the family Calamariaceæ, having slender, branching, usually striate stems bearing whorls of lanceolate or spatulate leaves with a median nerve, which are fused at their bases into a sheath or annulus. The fruit is a heterosporous spike or strobile. It is not yet certain whether the specimens referred to this genus represent independent herbaceous plants or the smaller ultimate branches of calamitean plants. They are very abundant in the Carboniferous formation and range from the Devo-

Annulosiphonata (an'ū-lō-sī-fo-nā'tā), n. pl. [L. annulus, a ring, + sipho, siphon, pipe, + -ata².] In Hyatt's classification, a group of extinct cephalopods, including straight and curved shells, in which the siphuncle is thickened by organic deposits into solid rays extending into the septal chambers. Actinoceras and Huronia are examples. The species are chiefly from Silurian rocks.

annulus, n. 3. (d) In the Equisetaceæ, the sheath below the spike formed by the union of the bases of the leaves. (e) In diatoms, the rim of silex formed within the frustules of some genera. (f) The fleshy rim of the

corolla in milkweeds.—4. (c) One of the external subdivisions of the body of a leech, resembling a segment of the body of an earthworm. A single annulus, however, does not correspond to an internal segment. From 3 to 5 or even 12 annuli correspond to a segment in different genera.

Anodal diffusion, cataphoresis.

Anodic 1, a. 2. Of or pertaining to the anode.

— Anodic rays, in slect., radiations issuing from the positive terminal or anode of a vacuum-tube.

annulus

positive terminal or anode of a vacuum-tube.

anodyne, n.— Hoffmann's anodyne, a mixture of ether, alcohol, and ethereal oil, the last-named constituent containing ethyl sulphate, much used in medicine as a stimulant, antispasmodic, and anodyne.

anodynin (a-nod'i-nin), n. Same as antipyrin.

anoësis (an-ō-ē'sis), n. [NL., < Gr. ā- priv. + νόησις, understanding.] In psychol., a hypothatis statu of consciousness in which there is wingue, understanding.] In psychol., a hypothetic state of consciousness in which there is sentience but no thought; immediate experience without reference to an object. Ancesis is sometimes predicated of primitive organisms, sometimes of the marginal processes of the human consciousness. It is used, more correctly, simply as a limiting conception, the logical zero-point of intellectual function.

But it is conceivable that they [items or particulars] should be given and no intellectual synthesis ensue; such a consciousness has been happily named ancetic. Whether or no it actually exists is another matter: it is a conceivable limit, and has the theoretical usefulness of limiting conceptions generally. But relative ancesis suffices here.

**Encyc. Brit., XXXII. 63.

Anostrous (an-es'trus), a. [Gr. ar-priv. + outpo;, vehement desire.] In zoöl., without sexual desire; relating to the completed period of sexual desire in female mammals. — Anoss-

of sexual desire in female mammals.—Anos-trous cycle, a single completed period of sexual desire not immediately followed by another. This comprises the *procestrum, *cestrus, and *metcestrum.

anostrum (an-es trum), n.; pl. anæstra (-trä). [NL.: see *anæstrous.] In zoöl., an interval between periods in 'heat' when the female mammal has no sexual desire.

anostic, a. 2. In psychol., relating to or characterized by anossis. G. F. Stout, Anal. Psychol., i. 51.

ehol., 1. 51.

anogenic, a. 2. In petrol., noting igneous rocks which originate by ascension from the earth's interior: synonymous with eruptice.

Relating to the anon-op'si-\(\text{i}\), n. [NL., \(\left(\text{Gr. abu,}\)] anoonsia (an-\(\text{o}\)-op'si-\(\text{si}\)), n. [NL., \(\left(\text{Gr. abu,}\)]

eartn's interior: synonymous with eruptive.

anogenital (an-ō-jen'i-tal), a. Relating to the anus and the genital organs; noting the region of the body including these parts.—Anogenital band, the rudimentary perineum in the embryo.

anol (an'ōl), n. [an(ise) + -ol.] Parapropenyl phenol, CH₂CH: CHC₆H₄OH, usually called para-anol. It crystallizes in leaflets which melt at 93°. Its methyl ether, anethol, is found in anise-oil

which melt at 93°. Its methyl ether, anethol, is found in anise-oil.

Anomala, n. 4. pl. A tribe of brachyurous crustaceans containing the families Dromids, Homolids, and Raninids.

Anomalocladina (a-nom'a-lō-kla-dī'nā), n. pl. [NL., < Gr. ἀνόμαλος, irregular, + κλάος, twig, + -ina².] In Zittel's classification, a suborder of tetractinellid lithistid sponges. In this group the skeletal spicules are mostly short rays with inflated heads which are often digitate or branched and united with the processes of adjacent rays.

Anomalocrinidæ (a-nom'a-lō-krin'i-dō), n. pl. [NL., < Anomalocrinus (⟨ Gr. ἀιώμαλος, irregular, + κρίνον, a lily (see crinoid), + -idæ.] A family of fistulate crinoids having radial plates of very irregular form and arms with pinnules on one side only. It is represented by a single gones. Anomalocrinus from the by a single genus, Anomalocrinus, from the Silurian of North America.

Anomalocystidæ (a-noma-lō-sis'ti-dō), n. pl. [NL., < Anomalocystites + -idæ.] In Woodward's classification, a family of cystidean echinoderms which have a compressed calyx, the sides of which are dissimilarly plated, genthe sides of which are dissimilarly plated, generally with two free arms and a short stem. They occur in rocks of Cambrian and Silurian age. Properly, in uncontracted form, Anomalocystitidæ.

Anomalocystites (a-nom'a-lō-sis-tī'tēz), [NL., (Gr. ἀνωμαλος, irregular, + κιστα, bladder, + -ιτης, -ite².] The typical genus of the family Anomalocystidæ.

Anomalodesmacea (a-nom a-lo-des-mā sē-ä), n. pl. [NL., ζ Gr. ανώμαλος, irregular, + δέσμα, a band, + -acea.] In Dall's classification of the *Pelecypoda*, an order comprising burrowing shells with nearly edentulous hinge, the mantle lobes more or less completely united, mantle lobes more or less completely united, leaving two siphonal openings, a pedal opening, and sometimes a fourth opening. The valves are generally unequal. The group includes many recent and late fossil forms, and in general expression is archaic, specially in regard to hinge-structure, which reproduces that of the Silurian and Devonian paleoconchs.

anomalodesmacean (a-nom"a-lō-des-mā'sē-an), a. and n. I. a. Having the characters of or pertaining to the Anomalodesmacea.

anomalodesmaceous (a - nom a - 1ō - des - mā shius), a. [Gr. ἀνώμαλος, irregular, + δεσμός or δέσμα, a band, + -accous.] Same as *anom-

Anomalon (a-nom'a-lon), n. [NL. (Jurine, 1807), < Gr. ἀνώμαλος, neut. ἀνώμαλος, irregular: see anomalous.] An important genus of hymenopterous insects of the family Ichneumonidæ and typical of the subfamily Anomalinæ. It comprises more than 150 species, many of them important enemies of injurious insects. Most of the described species occur in Europe and North America, but the genus is still more widely distributed.

Anomalous dispersion. See **dispersion.**—Anomalous double refraction. See **dispersion.**—Anomalous double refraction. See **refraction.

anomaly, n. 4. In meteor., the amount by which a given observed quantity is greater or less than an assumed ideal or normal value; a de-

parture.

Anomiaces (a-nō-mi-ā'sō-ā), n. pl. [NL., < Anomia + -acea.] A suborder of bivalve mollusks of the order Filibranchiala. It includes forms which have the heart dorsal to the rectum, a single sorts, small foot, and very small anterior adductor. The shell is oyster-shaped, without hinge-teeth, and is attached by a calcified byssus which passes through a lobe in the right valve. It includes the single family Anomials.

anomocephalus (an'ō-mō-sef'a-lus), n.; pl. anomocephali (-l̄-). [Gr. ἀνομος, irregular, + κεφαλή, head.] One with an irregularly shaped head.

anomure (an'ō-mūr), n. [As NL. Anomura.]
One of the anomural or irregular-tailed crus-[As NL. Anomura.]

taceans; an anomuran.

anomy, n. 2. As used by Pearson and others, a breach in the routine of perceptions. See the extract.

In our ignorance we ought to consider before experience that nature may consist of all routines, all anomics, or a mixture of the two in any proportion whatever.

K. Pearson, Gram. of Sci., iv. 15.

anoôpsia (an-ō-op'si-ä), n. [NL., ζ Gr. ἀνω, upward, + δψες, vision.] Strabismus in which the axis of vision is directed upward.

Anopheles (a-nof'e-lēz), n. [NL. (Meigen, 1818), (Gr. άνωφελής, useless.] 1. A genus of true



Malarial Mosquito (Anopheles maculipennis) Male at left; female at right. Enlarged. (After Howard, U.S. D. A.)

mosquitos (dipterous family Culicidæ), distinguished from the typical genus Culex by the long palpi of the female. The mosquitos of this genus are scope or to the visual illusion which that interest the control of the control of the scope of the female. palpi of the female. The mosquitos of this genus are the true secondary hosts of the causative organisms of malaria, which undergo their sexual development only in the stomach of an anopheles. From this fact it results that these mosquitos convey the disease from malarial patients to healthy individuals.

2. [l. c.] An insect of this genus.

2. [l. c.] An insect of this genus.

Anophelinæ (a-nof-e-lī'nē), n. pl. [NL., <
Anopheles + -inæ.] A subfamily of mosquitos
(family Culicidæ), comprising Anopheles and
its immediate allies. In both sexes the palpi are
about as long as the proboscis, and the terminal joint is
spatulate or clubbed in the male; in the wings the first
submarginal cell is as long as or longer than the second
posterior cell.

II. a. A member of the order Anomalodes-anoplan (an-op'lan), a. and n. [Anopla + -an.] acea. I. a. Pertaining to or resembling the Anopla. omalodesmaceous (a - nom'a - lō - des - mā'-II. n. A nemertean worm of the section

Anopla. Anoplia. (an-op'li- \ddot{a}), n. pl. [NL., \langle Gr. \dot{a} vo- $\pi\lambda o_{\zeta}$, not armed, \langle \dot{a} v., not, + $\dot{o}\pi\lambda a$, arms.] A tribe of lithistidan Tetractinellida, having no ectosomal spicules or microscleres. It contains the families Azoricidæ and Anomocladidæ, together with extinct forms.

anoplian (an-op'li-an), a. and n. [Anoplia + -an.] I. a. Pertaining to or having the characters of the Anoplia.

II. n. One of the Anoplia.

Anoplogaster (an-op-lo-gas'ter), n. [NL., ζ Gr. ἀνοπλος, unarmed, + γαστήρ, belly.] A genus of berycoid fishes found in the abysses of the Atlantic.

Anoplophora (an-op-lof'o-rä), n. [NL., < Gr. ἀνοπλος, unarmed, + -φορος, < φέρειν, bear.] A genus of naiads from the Triassic formation of Germany.

Anoplotheca (an-op-lō-thē'kā), n. [NL., ⟨Gr. ἀνοπλος, unarmed, + θήκη, case.] A genus of convexoconcave, spine-bearing brachiopods, having a median dorsal septum and the jugum articulating into a depression in the ventral valve: characteristic of Devonian faunæ.

anoplous (an-op'lus), a. Relating or pertaining to the Anopla; having the proboscis un-

ing to the Anopla; having the proboscis unarmed, as certain nemertines.

anoplurous (an-ō-plò'rus), a. Resembling the insects of the hemipterous suborder Anoplura.

Anor group. See *group1.

anorectal (a'nō-rek'tal), a. [L. anus, anus, + NL. rectum, rectum.] Relating to both the anus and the rectum. Therapeutic Gazette, May 15, 1903, p. 344.

anorectic (an-ō-rek'tik), a. [anorect-ous+-ic.]

Same as anorectous.

anorganon (an-ôr'ga-non), n.; pl. anorgana (-nā). [NL., ⟨Gr. ανόργανον, neut. of ἀνόργανον, without organs, ⟨ ἀν- priv. + ὀργανον, instrument, organ.] A body without organs, that is, an inorganic body.

anorgic (an-ôr'jik), n. [Gr. ανόργ(ανος), without organs (inorganic) + ic.] A general description of the control of t

is, an inorganic body.

Inorgic (an-ôr'jik), n. [Gr. $a\nu\delta\rho\gamma(a\nu\circ\varsigma)$, without organs (inorganic), +-ic.] A general designation, proposed by Haeckel, for the sciences that deal with inorganic nature, as contrasted

with the biological sciences.

anorthoclase (an-or'tho-klāz), n. [Gr. $\dot{a}vo\rho\theta\sigma_{c}$, not straight, $+\kappa\lambda\dot{a}\sigma\iota_{c}$, fracture. See orthoclase.] A triclinic feldspar allied to microcline but containing a considerable amount of soda. characteristic of certain igneous rocks, as the

characteristic of certain andesite of Pantelleria.

anorthographic (an-ôr-tho-graf'ik), a. [Gr. + orthographic.] That deviates from av-priv. + orthographic.] That deviates from or is at variance with orthography or the accepted rules of spelling.

anorthographical (an-ôr-thộ-graf'i-kal), a. Characterized by irregular or incorrect spell-

ing; incorrectly spelled.

anorthographically (an-ôr-thō-graf'i-kal-i),

adv. Irregularly as regards spelling. See the quotation.

A fresco painting has been discovered . . . representing the two martyrs, one of whom [Hyacinthus] bears his name written anorthographically thus, Laquintus, Athenseum, July 14, 1894, p. 72.

anorthography (an-ôr-thog'ra-fi), n. [Gr. ἀν-priv. + ὑρθογραφία, correct writing.] Same as agraphia.

strument produces. Amer. Jour. Psychol., II.

240.

anorthose (an-ôr'thōs), a. [Gr. ἀν- priv. + ὁρθός, straight, +-ose.] Same as *anorthoclase.

anorthosite (an-ôr'thō-sit), n. [anorthose + -ite².] In petrog., a granular or gneissoid igneous rock of eastern Canada, consisting chiefly of the plagioclase feldspar, labradorite. The name (first used by Hunt in 1863) is now applied to rocks composed largely of any lime-soda feldspar (plagioclase). The anorthosites are regarded by some petrographers as the highly feldspathle extreme of the gabbro family of igneous rocks.

Anosmatic (an-os-mat'ik), a. [Irreg. ⟨ Gr. ἀν-

posterior cell.

anopisthographic (an-ō-pis-thō-graf'ik), a. [Irreg. ⟨ Gr. ἀν-griv. + ὁπισθεν, at the back, + γράφειν, priv. + ὁσμή, smell, + -atic. A more correct write.] Not written or printed upon at the back; written or printed upon on one side only, as a proof or a broadside.

Anoplagonus (an-ō-plag'ō-nus), n. [NL., ⟨ Amer. Anthropologist, Oct.-Dec., 1903, p. 638. Gr. ἀνοπλος, unarmed, + Agonus.] A genus of sea-poachers of the family Agonidæ, found in the North Pacific.

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anthem

anounou

group.

Anquetilia (an-kwē-til'i-ā), n. [NL. (Decaisne, 1848), named in memory of A. H. Anquetil-Duperron (1731-1805), a French orientalist.] A genus of dicotyledonous plants of the family Rutaceæ. See Skimmia.

Ansate fissure or sulcus. See *fissure.
anselmino (än-sel-mē'nō), n. [it.] A silver
coin of Mantua: so named from the effigy and

name on the reverse.

Anseremme limestone. See *limestone.

anseriform (an-ser'i-fôrm), a. [NL. anseriformis, & L. anser, goose, + forma, shape.] Resembling a goose; pertaining to the Anseriformes, a group of birds which contains the ducks and geese.

Anspach porcelain. See *porcelain1.

Anspach porcelain. See *porcelain¹.

ant¹, n.—Black ant, Monomorium minutum, a common species in the United States, frequently entering houses. Also called little black ant.—Bulldog ant, any ant of the genus Myrmecia, which is confined to Australia and Tasmania and contains about 30 species. They form large mounds of earth for their nests, and are the most formidable of all ants, possessing large jaws and stinging severely.—Corn-louse ant, Lasius brunneus, a small brown ant which nests in fields and cares for certain plant-lice that feed on the roots of grains and grasses.—Imbauba ant, a Brasilian arboreal ant, of the genus Azeca, which forms small nests in the interior of plants and is thought to protect them from the attacks of the leaf-cutting ant.—Leaf-cutting ant, Atta fervens, a large brown ant which defoliates trees: common throughout Central America, and found also abundantly in southern Texas.—Mound-building ant, Formica exectoides, a species in the United States which builds large mounds. Some of these mounds are 10 or 12 feet in diameter. The head and thorax of this ant are rust-red and the legs and abdomen are black.—Porcupine-grass, frequently covering the leaves with sand brought up from the ground.—Bed ant. See red!—Shed-builder ant, Cremastogaster lineolata, a species, common in the southern United States, which sometimes builds sheds, composed of a paper-like pulp, over herds of aphida or scale-insects, from which they obtain honeydew. Comstock.—Small yellow ant, Solenopsis debilis.

anta³ (än-tš'), n. [Native_name.] A name in north-western South America of the ivory-nuit

palm, Phytelephas macrocarpa. See Phytele-

phas.

Antean (an-tê'an), a. [L. Anteus, < Gr.
Avraioc.] Of, pertaining to, or resembling
Anteus, a giaut, in Greek legend, slain by Hercules. Anteus was invincible as long as he remained in contact with his mother Gea, the earth; but Hercules, who discovered the source of his strength, lifted him into the air and crushed him.

antagonal (an-tag'ō-nal), a. Antagonistic: as, "antagonal principles of faith and sight," J. Woodford. N. E. D.
antagonistic, a. 2. In the psychology of visual

sensation, complementary: as, blue and yellow are antagonistic colors.

Antarctogæa (an-tärk-tō-jē'ā), n. In zoögeog., a name proposed by Sclater for an area chiefly in the southern hemisphere and embracing Central and South America, Australasia, Polynesia, and Austro-Malaysia. The association is based upon the faunal relationships.

Antarctogæan (an-tärk-tō-jō'an), a. Of or per-taining to the zoögeographical area known as Antarctogæa. Also Antarctogæal and Antarctogæic. See the extract.

Antarian (an-tā'ri-an), a. and n. I. a. Pertaining to or resembling the star Antares.—
Antarian stars, stars of Secchi's third type, resembling Antares in having a fluted spectrum in which the dark flutings are sharply defined at their upper edge (toward the blue end of the spectrum) and fade out toward the red. They are far less abundant than Sirian and Arcturian stars, but still are not very rare.

II. n. A star of the type of Antares.
ant-cattle (ant'kat'l), n. See ant-cow.
ant-disk (ant'disk), n. A circular space cleared of herbage around the nests of agricultural ants. Stand. Dict.

ants. Stand. Dict.
anteal, a. II. n. In ichth., the vomer; the

anterior median bone of the cranium, immediately behind and below the maxillary bones. Starks, Synonymy of the Fish Skeleton, p. 508.

Antebrachial index. See *index.
antebrachium, n. 2. In ichth., the hypercoracoid, a bone of the shoulder-girdle. Starks, Synonymy of the Fish Skeleton, p. 522.

anounou (ä-nō'ō-nō'ō), n. [Hawaiian.] In antecedent, a. 2. In phys. geog., noting rivers Hawaii, a species of peppergrass, Lepidium or streams which have persisted in their Owaihiense, found in all the islands of the courses in spite of an uplift of the land: thus the Meuse is an antecedent river, because it has persisted in its course by cutting a deep gorge through the uplifted area of the Argorge t

55

Streams which hold their courses in spite of changes which have taken place since their courses were assumed are said to be antecedent. They antedate the crustal movements which, but for preexistent streams, would have given origin to a very different arrangement of river courses. Chamberiin and Saliubury, Geol., I. 161, Antecedent drainage, the drainage of antecedent streams.—Antecedent valley, a valley which has persisted throughout a period marked by crustal movement that has materially changed the attitude of the underlying strate.

that has marcally lying strata.

lying strata.

antecilial (an-tē-sil'i-al), a. [L. ante, before, + cilium, eyebrow, + -al.]

Same as *ante-

anteciliary (an-tē-sil'i-ā-ri), a. In the Lepidoptera, situated before the ciliary band, that is, before the band in front of the marginal fringe of the wings. Proc. Zool. Soc. Lond., 1902, II. 118.

anteclypeus (an-tē-klip'ē-us), n. In entom., at the front end and extending away the anterior part of the clypeus when that solerite is divided into two parts.

antecrochet (an-tē-kroch'et), n. [L. ante, before, + crochet².] A fold of enamel directed posteriorly from the anterior cross-crest, or protoloph, in such a tooth as the molar of a rhinoceros. Sometimes erroneously spelled anticrochet. See cut under *tooth.

anteroulsually (an'te-ro-dir'iai-1), dav. In entom., at the front end and extending away entom, at the front end extending away entom. In the entom, at the front end extending away entom, at the front end extending away entom entom, at the front end extending away entom entom, at the front end extending away entom entom entom, at the front end extending away entom entom

Our doctor in his antedoctorial age was a student in version of that organ.

Southey, Doctor. anteroflexion (an'te-rō-flek'shon), n. A bend-

the ground.—Red ant. See red!.—Shed-builder ant.

Cremastogaster lineotata, a species, common in the southern United States, which sometimes builds sheds, composed of a paper-like pulp, over herds of aphids or scale-insects, from which they obtain honeydew. Comstock.—Small yellow ant. Solemopsis debits.

anta³ (än-tä'), n. [Native name.] A name in northwestern South America of the ivory-nut as to conceal the part where the handle joins

antehumeral (an-tē-hū'me-ral), a. In entom., situated in front of the fore legs. Proc. Zool.

soc. Lond., 1902, I. 77.

antelios (an-tē'li-os), n. [Gr. ἀντήλιος, opposite to the sun, ⟨ἀντί, opposite, + ήλιος, sun. Cf. anthelion.] The point in the heavens opposite to the sun. [Rare]

anthelion.] The point in the heavens opposite to the sun. [Rare.]
antelope-beetle (an'tē-lōp-bē'tl), n. An American beetle, Dorcus parallelus, of the family Lucanidæ, with shorter jaws than the stag-beetles proper of the genus Lucanus.
antemedial (an-tē-mē'di-al), a. In entom., situated before the middle, or cephalad of the theoretical middle transverse line, of the thorax: especially used in coleopterology. Proc. Zool. Soc. Lond., 1902, I. 184.
antemedian (an'tē-mē'di-an), a. Same as *antemedial.

The Antarctogwan area thus includes what are regarded by Blandford, Lydekker and others as two separate realms, i. e., Neogwa (South and Central America) and Notogwa (Australissia, Polynesia and Austro-Malaysia), while Africa south of the Sahara was regarded as a region or dependence of Arctogwa.

Science, Feb. 5, 1904, p. 220.

*antemedial.

*antemedial.

antenna, n. 2. (b) In Rotifera, a spur-like process bearing a tuft of setw and projecting from the mid-dorsal line close to the trochal disk. Same as calcar1, 4.—4. In elect., the vertical conductor used in wireless telegraphy to send out electric waves (sender) or receive them (recess bearing a tuft of setse and projecting from the mid-dorsal line close to the trochal disk. Same as calcar¹, 4.—4. Inclect., the vertical conductor used in wireless telegraphy to send out electric waves (sender) or receive them (receiver). Phys. Rev., Sept., 1904, p. 197.

Temporal close See **Aland** **Inches** See **Inches** See **Aland** See **Aland** See **Inches** See **Inches**

electric waves (sender) or receive them (receiver). Phys. Rev., Sept., 1904, p. 197.

Antennal gland, lobes. See *gland, *lobe.
Antennary feet, the second and most important pair of swimming-feet in the Nauplius larva of crustaceans. These feet become the antenna of the adult.—Antennary gland. See *gland.

antennular (an-ten'ū-lär), a. Of the nature of or resembling an antennula or small an-

tenna: as, antennular organs. Huxley.

antenodal (an-tē-nō'dal), a. [L. ante, before, + nodus, node.] In entom., situated before the nodus: referring to a vein, or nervure, or space, as in the wings of dragon-flies. Proc. Zool. Soc. Lond., 1902, I. 49.

The state of a letter which precedes the part of a letter which

ante-partum (an-te-par'tum), a. [L. ante partum, before delivery.] In obstet., prior to the delivery of the child.

antephenomenal (an'të-fë-nom'e-nal), a. [L. ante, before, + NL. phænomena: see phenomenon.] Antecedent to phenomena; related to consciousness, considered as generating

phenomena, as a condition to contemplating them.

antephenomenalism (an'tē-fē-nom'e-nalizm), n. The character of being antephenomenal; the state of consciousness in so far as it generates phenomena.

anteposition, n. 3. In pathol., a forward displacement in the horizontal plane, especially a misplacement of the uterus.

anteriad (an-tô'ri-ad), adv. [anteri(or) + -ad3.]
Toward the anterior end or surface of the body; anteriorly.

The rudiment of the gall-bladder which in the previous stage is very shallow and basin-like, and opens dorsad within the primary evagination of the proton, is, in the present stage, a somewhat deeper evagination of the ventral part of the posterior wall, and opens anteriad.

Trans. Amer. Micros. Soc., Nov., 1908, p. 66.

anterodistal (an'te-rō-dis'tal), a. [L. *anterus, assumed positive of anterior, anterior, + distal.] In entom., situated at the front end and away from the body. Proc. Zool. Soc. Lond., 1902, II. 275.
anterodistally (an'te-rō-dis'tal-i), adv. In entom., at the front end and extending away from the body: as, an antennal joint prolonged anterodistally into a strong spine. Proc. Zool. Soc. Lond.. 1900. I. 26.

rhinoceros. Sometimes erroneously spends anticrochet. See cut under *tooth.

antecubital (an'tē-kū'bi-tal), a. [L. ante, before, + cubitus, forearm: see cubitus.] In anat., situated in front and on the outer side. Jour. Sci., Jan., 1904, p. 29.

anterofixation (an'te-rē-fik-sā'shon), n. [L. *anterus, positive of anterior, anterior, + E. *fixation.] Fixation anteriorly, as of the uterus to the anterior abdominal wall in cases of retrovassion of that organ. version of that organ.

ing forward.

antero-inferior (an'te-rō-in-fō'ri-or), a. Situated in front and below or on the under side.

Buck, Med. Handbook, II. 413.

Amer. Anthropologist, Jan.-March, 1903, p. 26.

antefix, n. 2. An ornament on a vase so placed as to conceal the part where the handle joins the body.

antefixal (an-tē-fik'sal), a. [antefix + -al.]

Of, pertaining to, or of the nature of an antefix. S. Birch, Anc. Pottery, II. 7. N. E. D. antefurcal (an-tē-fer'kal), a. [antefurca + -al.] In entom., relating or pertaining to the antefurca.

antenumeral (an-tē-hū'me-ral), a. In entom., antenumeral (an-tē-hū'me-ral), a. Brog. Zool.

anteromestial (an'te-rō-mes'i-al or -mē'zi-al), a. Same as *anteromedial.

anteromestial (an'te-rō-mes'i-al or -mē'zi-al), a. Same as *anteromedial.

anteromestial (an'te-rō-mes'i-al or -mē'zi-al), a. Same as *anteromedial.

anteroposteriad (an'te-rō-pos-tē'ri-ad), adv. [anter(tor) + posteri(or) + -ad³.] From in front backward, that is, from the anterior toward the posterior end or surface of the body; anteroposteriorly.

The vitelline veins extend antero-posteriad in the extreme dorsal portion of the septum transversum.

Trans. Amer. Micros. Soc., Nov., 1903, p. 58.

anteroposteriorly (an'te-rō-pos-tē'ri-or-li), adv. From the front to the back; fore and aft.

ant.

anteropygal (an'te-rō-pī'gal), n. The median bony plate of a turtle's carapace immediately behind the posterior neural plate, which is borne upon the spinous process of a vertebra. In the cut under Chelonia, the line from Py runs to the anteropygal. The pygal plates are unsupported by any vertebræ, and may be three in number, in which case they are termed anteropygal, posteropygal, and marginal-pygal.

Buck, Med. Handbook, VII. 708.

anteroventrally (an'te-rō-ven'tral-i), adv. Forward and downward, or ventrally.

antescript (an'tē-skript), n. The writing which precedes (some other writing) as a prefatory note, or all that part of a letter which precedes

pressive of praise, patriotism, loyalty, etc., and set to music.—National anthem, a song or hymn adopted by a particular country, either officially or by common consent, as a distinctive expression of devotion to to to to its ruler, such as "God Save the King," the so-called national anthem of the British people, and the "Star-Spangled Banner," the national anthem of the United States. The former is said to have been written and composed by Henry Carey (1696-1748) and first sung by him at a patriotic dinner in 1740. The "Star-Spangled Banner" was written by Francis Scott Key (1780-1848) in 1814, while a prisoner on a British ship; was set, by his

desire, to the tune of "To Anacreon in Heaven," com-posed by John Stafford Smith (1750-1836); and was first sung in Baltimore by Ferdinand Durang.

anthemene (an'the men), n. [Anthemis + -ene.] A hydrocarbon, C₁₈H₃₆, found in the blossoms of Anthemis nobilis. It melts at 64° C. anthemic (an'the mik), a. Pertaining to or

derived from Anthemis.—Anthemic acid, a color-less, silky, crystalline principle of bitter taste contained in German camomile (Matricaria Chamomilla) and in Anthemis arceneis

anthemidin (an-them'i-din), n. A tasteless crystalline principle contained in German camomile (Matricaria Chamomilla).

anthemol (an'the-mol), n. [Anthemis + -ol.] A compound, $C_{10}H_{16}O$, found in the oil of camomile as esters of tiglic and angelic acids. It is a viscous oil with an odor like camphor.

antheridiophore (an-the-rid'i-\(\bar{\gamma}\)-f\(\bar{\gamma}\)r), n. [NL. antheridium + Gr. -φορος, < φέρειν, bear.] A gametophore bearing antheridia only. antherless (an'ther-les), a. [anther + -less.] Without anthers; anantherous.

antheromania (an'ther-ō-mā'ni-ā), n. [NL., < anthera, anther, + Gr. µavia, mania.] In bot., an excessive development of anthers.

antherpetic (ant-her-pet'ik), a. Preventive or curative of herpes.

anther-smut (an'ther-smut), n. A fungus (Ustilago violacea) which attacks the anthers of the carnation and of other nearly related plants.

Anthias (an'thi-as), n. [NL., ζ Gr. ἀνθίας, a sea-fish, Labrus or Serranus anthias, prob. ζ ἀνθος, a flower.] A genus of brilliantly colored fishes found in warm seas, the species longest known being the barbier, A. anthias, of the Mediterranean.

anthion (an'thi-on), n. [Gr. arri, against, + \theta ion, sulphur.] The trade-name of a solution of potassium persulphate used by photographers to remove from their prints the last traces of sodium thiosulphate employed in

anthocarp (an'tho-karp), n. [Gr. ανθος, flower, + καρπός, fruit.] Same as pseudocarp.

** **παρπός, fruit.] Same as pseudocarp.

anthocarpium (an-thō-kār'pi-um), n.; pl. anthocarpia (-ĕ). [NL.] Same as **anthocarp.

anthocaulus (an-thō-kâ'lus), n.; pl. anthocauli (-lī). [NL., ⟨Gr. ἀνδος, flower, + κανλός, stalk.]

The pedicel or stalk of the trophozoŏid, the upper part of which becomes expanded and disk-shaped during development and is finally set free as the adult Fungia

Anthocarpa (on thos'o res)

Set tree as the adult Fungia

Anthoceros (an-thos'e-ros), n. [NL. (Linnæus, 1753), referring to the long-horned capsule; (Gr. ἀνθος, flower, + κερώς, horned.]

A genus of bryophytic plants, type of the family Anthocerotaceæ. It is distinguished from the other two genera of the family by having the prolonged capsule inclosed in a sheath only at the base, and by the clearly developed columella. There are 79 species, found growing on moist ground (rarely on decaying logs) in nearly all parts of the world.

nearly all parts of the world.

Anthocerotacese (an-thos'e-rō-tā'sē-ē), n. pl. [NL. (Schiffner, 1895), < Anthoceros (Anthocerot-) + -aceæ.] A family of bryophytic plants of the class Hepaticæ, typified by the genus Anthoceros and containing the two other genera Notothylas and Dendroceros. It is characterized by the thalloid proembryonal generation, monecious reproductive organs, the antheridia inclosed at first in the depressions of the thallus, the archegonia depressed, and the sporogonia with the 2-lobed capsules much prolonged beyond the thallus. There are more than 100 species, small plants resembling liverworts, widely distributed over the globe.

Anthocerotales (an-thos'e-rō-tā'lēz). n. pl.

which distributed over the globe.

Anthocerotales (an-thos'e-rō-tā'lēz), n. pl.

[NL. (Schiffner, 1895), 'Anthoceros (Anthocerot-) + -ales.] An order of cryptogamic plants of the phylum Bryophyta, class Hepatice, coextensive with the family Anthocerotacee, and regarded as intermediate between the Marchantiales and the Jungermanniales.

Marchantiales and the Jungermanniales.

anthocerote (an-thos'g-rôt), n. [NL. Anthoceros.] A plant of the family Anthocerotaceæ. Amer. Nat., June, 1904, p. 479.

anthocodium (an'thô-kô'di-um), n.; pl. anthocodia (-ā). [NL., < Gr. ἀνθος, flower, + κωδία, κώδεια, head, esp. of a poppy or similar plant.]

The free distal, tentacle-bearing portion of the body, as in alternative relevants. body, as in alcyonarian polyps. *anthostele. Compare

anthocyan, n. 2. A red coloring matter developed in the young leaves of shade-loving plants when exposed to more light than they usually encounter.—3. A preparation from the juice of the sweet or purple violet used in making syrup of violets and to color and flavor

Also anthokyan. Thorpe, Dict. Apliquors. plied Chem., I. 174.

anthocyathus (an-thō-si'a-thus), n.; pl. anthocyathi (-thī). [NL., < Gr. avoc, flower, + κίαθος, cup.] The free discoid adult formed by the expansion of the upper part of the calycle of the trophozoöid in Fungia. Compare *anthocaulus.

Anthodon (an'thō-don), n. [Gr. ἀνθος, flower, + ἀδούς (ἀδοντ-), tooth.] A genus of theromorphous reptiles of the family Pareiasauridæ

from the Karoo formation of South Africa. antho-ecologist (an'thō-ē-kol'ō-jist), n. A student of flowers as correlated with their en-

vironment; a floral ecologist.

antho-ecology (an'thō-ā-kol'ō-ji), n. [Gr. ἀνθος, flower, + ecology.] The study of flowers in correlation with their environment; floral ecology.

ecology.

anthogenetic (an-thō-jē-net'ik), a. Of or pertaining to anthogenesis.

anthomaniac (an-thō-mā'ni-ak), n. [anthomania + -ac (after maniac).] One who is extravagantly fond of flowers. H. Smith, Moneyed Man, II. 321. [Rare.] N. E. D.

Anthomedusæ (an'thō-mē-dū'sē), n. pl. 1.

An order of Hydromedusæ marked by a regular alternation of a sterile hydroid generation with a sexual generation of medusoids or other genephores. Rigid permanent genephores and by with a sexual generation of medusoids or other gonophores. Rigid permanent gonothece and hydrothece into which the hydroids are completely retractile are not formed. The sense-organs of the medusoids are occilit, and the generative organs lie in the wall of the manubrium. The hydroid may be colonial or not, fixed or free. Same as Gymnoblastea.

2. [l.c.] The medusæ budded from polyps of the Tubulariæ, as distinguished from those budded from the polyps of the Campanulariæ. Compare Leptomedusæ. Haeckel.

anthony (an'tō-ni), n. [Orig. Anthony pig, also Tantony pig.] The smallest pig of a litter: from the fact that one of a litter was vowed to St. Anthony, patron saint of swineherds.

st. Anthony, patron saint of swineherds.

anthophagous (an-thof'a-gus), a. [Gr. ἀνθος, flower, + φαγείν, eat.] Flower-eating.

anthophobia (an-thō-fō'bi-ā), n. [NL., < Gr. ἀνφος, flower, + -φοβία, < φοβείν, fear.] A morbid dislike or even fear of flowers.

old distike or even fear of nowers.

Anthophorabia (an'thō-fō-rā'bi-ä), n. [NL. (Newport, 1849), irreg. (Anthophora + Gr. β ioc, life.] A curious genus of hymenopterous parasites of the family Chalcididæ. Its species live, as A. retuen, in the nests of the wild bees of the genus Anthophora. They are remarkable in structure, the males having no compound eyes.

the males having no compound eyes.

Anthophoridæ (an-thō-for'i-dē), n. pl. [NL.,
(Anthophora + -idæ.] A family of solitary
bees, of the superfamily Apoidea. It comprises forms usually thickly clothed with hair and usually
burrowing into the earth, where they form earthen cells
which they supply with pollen and honey for the sustenance of their young.

which they supply with polici and honey for the sustainance of their young.

Anthophyta (an-thof'i-tā), n. pl. [Gr. ἀνθος, flower, + φυτόν, plant.] The flowering plants: only occasionally used. A. Braun.
anthophyte (an'thō-fit), n. [Gr. ἀνθος, flower, + φυτόν, plant.] One of the flowering plants. See *Anthophyta.
anthopoma(an-thō-pō'mā), n.; pl. anthopomata (-ma-tā). [NL., ⟨Gr. ἀνθος, flower, + πῶμα, lid.] One of the spicular defenses, as calices and opercula, found among the alcyonarian polyps.
anthoptosis (an-thop-tō'sis), n. [NL., ⟨Gr. ἀνθος, a flower, + πτῶσις, a falling.] The fall or shedding of flowers.
anthostele (an'thō-stēl), n. [Gr. ἀνθος, flower, + στήλη, a pillar: see stele.] The proximal portion of the body of an alcyonarian polyp by which it is fused to the neighboring members

portion of the body of an alcyonarian polyp by which it is fused to the neighboring members of the colony. Compare *anthocodium.

Anthostoma (an-thos'tō-mā), n. [NL. (Nitschke, 1869), ⟨Gr. ἀνδος, flower, + στόμα, mouth.] A large genus of pyrenomycetous fungi, mostly saprophytic. The perithecia are buried in the bark or wood and are provided with necks. The spores are simple and are brown or black in color.

Anthostomella (an'thō-stō-mel'ā), n. [NL. (Saccardo, 1875), ⟨Anthostoma + dim. -ella.] A large genus of pyrenomycetous fungi having the perithecia covered by the epidermis of the

large genus of pyrenomycetous fungi having the perithecia covered by the epidermis of the host and a thin circular layer of dark mycelium. The spores are simple and are brown in color. Most of the species are saprophytic, but A. piana attacks and kills the leaves of Chamærops humilis.

anthotype (an'thō-tīp), n. [Gr. ἀνθος, flower, +τίπος, type.] A fugitive photographic print produced by the action of light upon paper treated with the expressed imigs of flowers or

treated with the expressed juice of flowers or plants. The petals of fresh flowers are crushed to a pulp and moistened with water or alcohol; the juice expressed is strained through cloth and spread upon paper;

and the paper thus prepared is exposed beneath a negative. The light produces a change of color. The anthotype process was discovered by Sir John Herschel. Recently the use of artificial coloring matters, as quinoline blue, curcuma, and a rapidly fading red, has been sug-

anthracene, n. 2. A poisonous ptomaine obtained from cultures of the anthrax bacillus.—Anthracene acid-black, etc. See *acid-black, etc. anthracitization (an'thra-sī-ti-zā'shon), n. [anthracite + -ize + -ation.] The process of changing lignite or bituminous coal into anthracite. Athermy Oct. 17, 1002

cite. Athenœum, Oct. 17, 1903.

anthracnose, n. 2. A name given to those diseases of plants which are caused by the attacks of fungi of the genera Glæssporium attacks of fungi of the genera Glæosporium and Colletotrichum. Among the important diseases caused by Glæosporium are: anthracnose of the almond, due to G. amygdalinum; anthracnose of the almond, due to G. amygdalinum; anthracnose of the blackberry and raspberry, caused by G. Venetum; anthracnose of the currant, caused by G. Rovæ. Among the diseases produced by Colletotrichum are: anthracnose of the top to the course of the currant produced by C. Indemuthianum; anthracnose of cotton, caused by C. Malvarum; anthracnose of the hollyhock, caused by C. Malvarum; anthracnose of melons, caused by C. lagenarium; and anthracnose of tomatoes, caused by C. phomoides.

anthracnosis (an-thrak-nō'sis), n. [NL.] Same an anthraceous

anthracolithic (an'thra-kō-lith'ik), a. [Grandopa, coal, + λίθος, stone.] In geol., containing anthracite coal: specifically applied by the Geological Survey of India to a series of Permian strata metamorphosed to mica schists,

with graphitic and anthracitic seams. Nature, May 26, 1904, p. 86.

Anthracomartus(an'thra-kō-mär'tus), n. [NL. ζ Gr. ἀνθραξ, coal, + (f) μάρτις, a witness.] A genus of fossil spiders in which the cephalothorax is quadrangular and the abdomen is composed of 7 segments. It is found in the coal-measures of North America and Europe.

Anthraconectes (an'thra-kō-nek'tēz), n. [NL., ζ Gr. ἀνθραξ, coal, + ν/κτης, a swimmer.] A genus of extinct merostome crustaceans from the coal-measures of Illinois.

anthraconene (an-thrak'ō-nēn), n. [Gr. $\dot{\alpha}\nu\partial\rho\alpha\xi$ ($\dot{\alpha}\nu\partial\rho\alpha\kappa$ -), coal, + -n- + -ene.] A resin found between the coal strata near Schlan, in Bohemia. It is brownish black or, in thin layers. hyacinth-red.

Anthracosia (an-thra-kō'si-ā), n. [NL., ⟨Gr-àνθραζ, coal, + L. -οs(us) + -ia².] A freshwater or estuarine genus of pelecypod mollusks, allied to living unios, found in the Carboniferous and Permian rocks.

anthracotic (an-thra-kot'ik), a. [anthracosis (-ot-) + -ic.] Relating to or affected by anthracosis. Jour. Exper. Med., V. 156.

anthracotypy (an'thra-kō-tī'pi), n. [Gr. ἀν-θραξ(ἀνθρακ-), coal, + τίπος, type.] Printing by means of powdered charcoal or other colors; by means of powdered charcoal or other colors; in photog., a process of reproducing subjects in tint on thin transparent paper. The image on a bichromated gelatin film is treated with warm water, which causes it to swell and become sticky at the parts not affected by light. These parts are thereby adapted to receive and hold powdered colors, which by printing may be transferred to paper.

anthraflavic (an'thra-flav'ik), a. [Prob. < anthraflavic (an'thra-flav'ik), a. [Prob. < anthra(cene) + L. flavus, yellow.] Noting an acid, 1.6-dihydroxyanthraquinone, C₆H₃OH-(CO)₂C₆H₃OH. It is isomeric with alizarin, and crystallizes in yellow needles which melt above 330° C.

anthranil (an'thra-nil), n. [anthra(cene) + anil (indigo).] The anhydrid of anthranilic

or orthoaminobenzoic acid, $C_6H_4 < |$. It is NH an oil with an odor resembling that of oil of bitter almonds.

anthranilic (an-thra-nil'ik), a. [anthranil + anthranille (an-thra-nillik), d. [anthranil+-ic.] Noting an acid, orthoaminobenzoic acid, C₆H₄(NH₂)CO₂H: so named because it was first obtained by boiling indigo with potassium hydroxid. It has acquired great commercial importance in the manufacture of synthetic indigo. It melts at 145°C. and has a sweet taste.

anthranol (an'thra-nol), n. [anthran(il) + -ol.]A substance, 9-hydroxyanthracene,

 C_6H_4 $\langle C(OH) \rangle C_6H_4$. It crystallizes in needles

Which melt, with decomposition, at 163°-170° C.

Anthrapalæmon (an 'thra-pa-lē'mon), n.

[NL., irreg. ⟨ Gr. ἀνθραξ, coal, + NL. Palæmon, a genus of crustaceans.] The generic name of an extinct crawfish from the coalmeasures of Illinois and Scotland.

anthrapurpurin, anthrapurpurine (an'thraper'pū-rin), n. [anthra(cene) + purpurin.]
A mordant color, a trihydroxyanthraquinone, C₆H₃OH(CO)₂C₆H₂(OH)₂, isomeric with purpurin: sometimes called isopurpurin. It is applied in the same manner as alizarin, but produces a yellower or more flery red. The so-called yellow shades of alizarin often contain anthrapurpurin. See *atizarin.
anthraquinoline (an'thra-kwin'ō-lin), n. [anthra(cene) + quinoline.] A base. Carlly N.

thra(cene) + quinoline.] A base, $C_{17}H_{11}N$, formed by distilling alizarin blue with zinc-dust. It melts at 170 and boils at 446°C. It is related to both anthracene and quinoline in its structure.

Anthraguinone red. See *red1.

anthrarobin (an'thra-rō'bin), n. [anthrac(ene) + Rob(inia) + -in².] A compound, 1.2-dihy-droxyanthranol, or 1.2.9-dihydroxyanthracene, C₆H₄(COH)₂CH₂(OH)₂, formed by the reduc-СН

tion of alizarin. It crystallizes in yellow leaflets or needles which melt at 208° C. Also called desoxyalizarin.

called desoxyauzarın. anthrarufin (an'thra-rö'fin), n. [anthra(cene) $+ ruf(ous) + -in^2$.] A compound, 1.5-dihydroxyanthraquinone, $HOC_6H_3(CO)_2C_6H_3OH$, isomeric with alizarin. It crystallizes in yellow leaflets which melt at 280° C., and is used as a dyestuff.

anthrasol (an'thra-sol), n. An oily substance anthrasol (an'thra-sōl), n. An oily substance possessing soothing and antipruritic powers. anthrol (an'thrōl), n. [anthr(acene) + -ol.] A substance, 2-hydroxyanthracene, C₆H₄(CH)₂-C₆H₃OH. It consists of leather-colored leaflets or needles which decompose at 200° C. anthrophotoscope (an-thrō-fō'tō-skōp), n. [Irreg. < Gr. ἀνθρωπος, man, + photoscope.] A photographic instrument having rotating glass disks on the marginal edges of which backgrounds and figures are mounted; these when

grounds and figures are mounted: these, when viewed through a long-focus lens, produce the effect of a peep-show. Also used in rephotographing to change the grouping or background.

anthropic, a. 2. [cap.] In geol., a term introduced by Sir J. W. Dawson to designate the human period, or the period of such Pleistocene and recent deposits as are found to contain human relics. It was divided by him into an early, or Palanthropic, and a late, or Nean-

an early, or Palanthropic, and a late, or Neanthropic, stage. See human *period.

anthropinism (an-thrō'pin-izm), n. [Gr. ἀνθρώπινος, of man (< ἀνθρώπος, man), + -ism.] The habit of considering everything as subordinate to man, or of considering things in relation to man and his needs and destiny. Grant Allen.

anthropinistic (an-thro-pin-is'tik), a. Of the anthropinistic (an-thro-pin-is'tik), a. Of the nature of anthropinism; considering things from a purely human standpoint, or in their relation to man only. Grant Allen. [Rare.] anthropism (an'thro-pizm), n. The doctrine or opinion that man is essentially different from, and contrasted with, everything else in nature, and the end for which the natural would was made.

world was made.

anthropistic (an-thro-pis'tik), a. Of or pertaining to the doctrine or opinion of anthro-

 ${\bf anthropoce\underline{n}tricism}$ sizm), n. The doctrine or opinion that the world, or the universe, has been made for man, and for the purpose of securing human welfare.

anthropoclimatologist (an thro-po-kli-mātol'ō-jist), n. One who makes a special study of the relations of the weather or the climate

to mankind. anthropoclimatology (an'thro-po-kli-ma-tol'ō-jī), n. [Gr. ἀνθρωπος, man, + climatology.] The study of the mutual relations of climate and mankind, including all human interests; the environment of a race or a nation: the in-

fluence of climate on the evolution of man. anthropocosmic (an'thro-po-koz'mik), a. [Gr. $\dot{a}\nu\theta\rho\omega\pi\sigma_{0}$, man, + $\kappa\delta\sigma\mu\sigma_{0}$, world.] Of man and nature. J. G. Schurman.

anthropofagy, n. A simplified spelling of anthropophagy.

anthropogeographer (an'thrō-pō-jē-og'rafer), n. A person who is versed in anthropogeographical science. Brinton, Basis of Social Relations, p. 181.
anthropogeographic (an'thrō-pō-jē-ō-graf'ik), a. Of or pertaining to anthropogeography.
anthropogeography (an'thrō-pō-jē-og'ra-fi), n. [Gr. ἀνθρωπος, man, + geography.] Geography as related to man and the conditions of his habitat.

of his habitat.

In our estimation, anthropogeography is a convenient term under which to include all those aspects of geography that deal with the relations of humanity, as a whole or divided into communities, to the earth, with which alone physical geography has to deal. "Applied Geography" might be taken as an alternative term, though on the whole it has a wider scope. "Political Geography" may be regarded as a subdivision or special application of anthropogeography, and therefore Prof. Ratzel's latest work is a natural sequel to that on the more general subjects. Geog. Jour. (B. G. S.), XIII. 171.

anthropoidometry (an'thrō-poi-dom'e-tri), n.
[Gr. ανθρωποειόης, like a man (see anthropoid),
+ -μετρία, < μέτρον, measure.] The measurement of the bodies of anthropoid apes. Amer.

Anthropol., Oct.-Dec., 1903, p. 708. anthropolatric (an-thro-pol a-trik), a. Of or

pertaining to anthropolatry."
anthropolith (an'thrō-pō-lith), n. Same as anthropolite.

anthropologically (an'thrō-pō-loj'i-kal-i), adv. In an anthropological way or direction. adt. In an anthropological way or direction.

anthropology, n.— Criminal anthropology, that branch of anthropology which deals with the physical and mental characteristics of criminals.—Culture anthropology, that branch of anthropology which deals with the mental life of mankind, or with human activities: opposed to physical anthropology, or somatology, which deals with the physical characteristics of man.

anthropometer, n. 2. An instrument used for anthropometric measurements.

anthropometrician (an'thrō-pō-mē-trish'an), n. [anthropometric + -tan.] Same as anthro-pometer, 1. Smithsonian Rep., 1890, p. 563. anthropometrics (an'thrō-pō-met'riks), n.

Same as anthropometrist (an -thro-po-met riss), n.

anthropometrist (an -thro-pom'e-trist), n.

One versed in anthropometry, or engaged in anthropometric investigations.

Anthropometrists think growth in height to be more or less antagonistic to growth in girth.

G. S. Hall, Adolescence, I. 19.

anthropomorph (an'thrō-pọ-môrf), n. [Gr. ἀνθρωπόμορφος, of human form, < ἄνθρωπος, man, + μορφή, form.] An element in decorative art, derived from the human form. Haddon, Evolution in Art,

anthropomorphism, n. 3. In pragmatistic philos., that philosophic tendency which, recognizing an absolute impossibility in the attainment by man of any conception that does not refer to human life, proposes frankly to sub-mit to this as a decree of ex-

physics to agreement with it.
The term was first used in this sense by F. C. S.

Schiller (Riddles of the Sphinx). See *human-

anthropomorphological (an'thrō-pō-môr-fō-loj'i-kal), a. Characterized by or of the nature

contrasted with, everything else in definition of the natural of the end for which the natural made.

It is an anthropomorphology.

It is an anthropomorphologically (an'thrō-pō-mōr-fō-loj'i-kal-i), adv. With anthropomorphic language. McCosh, Divine Gov., p. 475.

In an anthropomorphous manner.

In dectrine or opinion that the authropomorphous manner.

In an anthropomorphous manner.

In anthropomorphous manner.

In an anthropomorphous manner.

In anthropomorphous manner.

In an anthropomorphous manner.

In anthr

The doctrine of a God who is anthropomorphic in the vaguely magnified sense of being personal and spiritual, but not necessarily in the sense of having a human body: a term proposed by the Duke of Argyll, somewhat unnecessarily, since none but the most primitive men believe in any other anthropomorphism than

anthroposociologist (an'thrộ-pộ-sō-shi-ol'ộ- fever. Also anti-amarillic. jist), n. [Gr. $av\theta \rho \omega \pi o c$, man, + sociologist.] A anti-amboceptor (an-ti-am'bō-sep-tor), n. sociologist who is primarily an anthropologist The antibody to an amboceptor. sociologist who is primarily an anthropologist The antibody to an amboceptor. and who explains social phenomena for the most part by anthropologic principles; especially, one of a group of writers, headed by Lapouge, who base their classification mainly on the cephalic index and hold that the doli-chocephalous races are superior and are done.

anthroposociology (an'thro-po-so-shi-ol'o-ji), n. [Gr. ἀνθρωπος, man, + sociology.] Sociol- anti-apex (an-ti-ā'peks), n. The point oppoor ogy as studied primarily from the point of view site the "apex of the sun's way," toward of the physical characteristics of population constituting social groups; specifically, the Jour. Sci., Aug., 1903, p. 136.

science, or alleged science, which classifies the human races primarily by the cephalic index, arranging those of Europe in a hierarchy with the dolichocephalous races at the head. Jour. Polit. Econ., Dec., 1900, p. 76. anthropoteleological (an'thrō-pō-tel'ē-ō-loj'i-kal), a. [Gr. ἀνθρωπος, man, + teleological.] Pertaining to the teleological working of the human mind which adopt receive the ded discovered to the dedicate of the summer and which adopt receive the ded discovered to the dindustry.

human mind which adapts means to ends: dis-tinguished from *theoteleological, which applies to the teleological working of the divine mind.

Ward, Dynamic Sociol., I. 28.
anthropoteleology (an'thrō-pō-tel-ē-ol'ō-ji), n.
[Gr. ἀνθρωπος, man, + teleology.] The doctrine that the human mind always works teleologically. Ward, Dynamic Sociol., I. 28.

anthropotheism (an'thrô-pô-thê'izm), n. [Gr. $an\theta pom c_{\gamma}$, man, $+\theta e \delta c_{\gamma}$, God, +-ism.] A stage in the evolution of religion in which deities are conceived in the image of man and are often believed to be the surviving spirits of once powerful men. Ward, Dynamic Sociol., II. 257. powerful men. Ward, Dynamic Sociol., 11. 257. anthropotoxin (an'thrō-pō-tok'sin), n. [Gr. $a\nu\theta\rho\omega\pi\sigma\varsigma$, man, $+\tau\sigma\xi(\kappa\delta\nu)$, poison, $+\sin^2$.] A poisonous substance given off from the lungs. anthropozoic (an'thrō-pō-zō'ik), a. and n. [Gr. $a\nu\theta\rho\omega\pi\sigma\varsigma$, man, $+\zeta\omega\eta$, life.] I. a. Of the time of the existence of man; belonging to those recent geologic formations which have been deposited since the appearance of man

upon the earth.

II. n. [cap.] The final member in the series
Azoic, Eozoic, Paleozoic, Mesozoic, Cænozoic,
Anthropozoic, or Psychozoic.

anthropozoomorphic (an'thrō-pō-zō-ō-môr'-fik), a. [Gr. ἀνθρωπος, man, + ζωον, animal, + μορφή, form, + -ic.] In anthrop., partaking of the character of both man and animal: said in reference to animals which are believed by primitive tribes to be, or to have been, endowed with all the characteristics of their species and also with those of human beings, and to be able to assume animal or human form at will.

It is rather a worship of the ancestors of the Snake clans, which are anthropo-zoomorphic beings, called the Snake youth and the Snake maid.

An. Rep. Bur. Amer. Ethnol., 1897-98, p. 1008

Anthurium, n. 2. [l. c.] A plant of the genus Anthurium, n. 2. [l. c.] A plant of the genus Anthurium. A. Veitchii and A. Warooquanum are cultivated for their foliage; others, conspicuously A. Andreanum, for their showy spathes and speadices. The last-named has the spathe cordate and spreading, sometimes very large, of an orange-red color varying to white. anthurus (an-thū'rus), n. [NL. < Gr. ανίσος, flower, + ονρά, tail.] A cluster of flowers at the end of a long stalk. Jackson. [Rare.] anthypophoretic (ant'hi-pof-o-ret'ik), a. Of the nature of an anthypophora. Urquhart, Works, n. 292.

works, p. 292.

anti (an'ti), n. [Short for anti-monopolist, -prohibitionist, -imperialist, etc., according to the
case.] One who is opposed to some proposed
or undertaken course of action, policy, measure, movement, or enactment, as, for example, to imperialism. [Colloq.]

to imperianism. [Colloq.] Santi-.(3) In chem., a prefix used to indicate that two groups or two atoms which might react with each other are so separated in space that they do not readily do this. It is contrasted with the prefix syn.. Thus in anthen-saldoxime, C₆H₅-CH, the H and OH do not readily com-

BON bine to form water, while in symbenzaldoxime, C6H5-CH,

NOH such a combination takes place easily.

anti-abrin (an-ti-a'brin), n. [anti-+abrin.]
The antibody to abrin.
anti-albumid (an-ti-al'bū-mid), n. A product of albuminous digestion characterized by its resistance to proteolytic ferments.

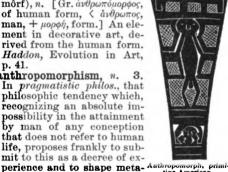
anti-albumose, n. 2. In immun., a specific precipitin corresponding to albumose.

anti-amaryllic (an'ti-am-a-ril'ik), a. Noting

a serum suggested for the treatment of yellow

chocephalous races are superior and are destribed to dominate all others. Ward, Pure Sociol., p. 231.

Antined to dominate all others. Ward, Pure antibody resulting on immunization with an antitoxin, which counteracts the effect of the



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be (Gr. avri, against, + apxic, rectum.] An ordinal term introduced by Cope for a group of extinct ostracoderm fishes characterized by their heavily plated head and abdomen. The head is articulated to the trunk and two paddle-like pectoral appendages are articulated to the plates of the trunk. The best-known genera of this order are Pterichthys and Astrolepis: all its representatives are restricted to the Devonian formations.

stricted to the Devonsan formations.

antiarigenin (an'ti-a-rij'e-nin), n. [antiar + L. -gen, produce, + -in².] A crystalline compound, $C_{21}H_{30}O_5$, obtained by the decomposition of antiarin. It melts at about 180° C. anti-arthrin (an-ti-ār'thrin), n. [Gr. avri, against, + $a\rho\theta\rho\sigma\nu$, a joint.] A compound formed by the condensation of tannin and saligenin. It is used as a remedy in acute and chronic gout and rheumatism.

anti-autolysin (an'ti-à-tol'i-sin), n. An anti-body which will inhibit the action of the cor-

responding autolysin.

antibacterial, a. 2. Preventing the action or development of bacteria. Med. Record, Mar. 28, 1903, p. 511.

antibacteriolytic (an'ti-bak-tē'ri-ō-lit'ik), a. [anti- + bacteriolytic.] Antagonistic to bacteriolytic action.

antiballooner (an'ti-ba-lön'er), n. In textilemanuf., a device employed on a ring-spinning frame to restrict the centrifugal bulging of the yarn during spinning. Nasmith, Cotton the yarn during spinning. Spinning, p. 356.

spinning, p. 300.

antibenzenepyrine (an'ti-ben-zēn-pī'rin), n.

[Gr. $\dot{a}vri$, against, + E. benzene + Gr. $\pi\bar{\nu}\rho$,
fire, + $-ine^2$.] The trade name of a material
for use in scouring clothing and textile fabrics generally. It is used in order to avoid or to diminish the danger of fire from using ordinary benzin, which is liable to become ignited by electric sparks produced by friction on the surface of the cloth. Antibenzenepyrine is said to consist of 60-65 per cent benzin of specific gravity .700, 20-25 per cent hydrocarbon oil of specific gravity .825, -830, and 10-12 per cent magnesia soap.

antibiotic, a. 2. In biol., injurious or deadly to the living substance: as, an antibiotic secretion.

Glandular powers directed to the production of a bactericidal, or at least antibiotic substance.

Philos. Trans. Roy. Soc. (London), 1894, ser. B, 185. 312.

antiblennorrhagic (an'ti-blen-ō-raj'ik), a. and n. [anti-+blennorrhagia + -ic.] I. a. Curative of catarrh or of gonorrhea. Buck, Med. Handbook, I. 103.

II. A remedy possessing this property.

antibody (an'ti-bod-i), n.; pl. antibodies (-iz).

[anti- + body.] A body or substance which inhibits the action of another substance. Also called antisubstance and, as a general term, adaptation-product. See *adaptation-product and *immunity.

The reaction is caused by the development within the blood-serum of the injected animal of an anti-body or a property or substance which causes a certain reaction with the serum homologous to the one injected.

Med. Record, June 18, 1903, p. 953.

antibromic (an-ti-brō'mik), a. and n. [anti-+Gr. βρῶμος, smell, + -ic.] I. a. Deodorant.
II. n. A deodorant.

anticathode (an-ti-kath'od), n. often of platinum, placed opposite the cathode in a vacuum-tube, on which the cathode rays, or streams of electrified particles, impinge and thus produce the Röntgen rays.

anticeltina (an'ti-sel-ti'ni), n. A compound of urea and mercury which does not precipitate albumen: used hypodermically in affections of the cornea and iris.

anticephalalgic (an'ti-sef-a-lal'jik, a. and n.

[Gr. ἀντ., against, + κεφαλαλγία, headache, +
-ic.] I. a. Preventive or curative of headache.
II. n. A remedy possessing such properties.
antichlorin (an-ti-klō'rin), n. Same as anti-

antichretic (an-ti-krē'tik), a. [antichresis (-et-) + -ic.] Of the nature of antichresis: as,

an antichretic agreement or contract.
antichrome (an'ti-krom), n. [anti-+chrome.]
A name given to certain pigments which are free from the defects of those in which chrome

or chromium is an ingredient. antichymosin (an-ti-ki'mō-sin), n. An anti-body which will inhibit the coagulating action of chymosin on milk.

anticipant, a. II. n. One who anticipates or looks forward to something; an anticipator: as, "the sweet anticipant of dawn," B. Taylor,

Poems of the Orient, p. 396.

Anticipating intermittent. See *intermittent.

Antiarcha (an-ti-ăr'kă), n. pl. [NL., said to anticipatorily (an-tis'i-pă-tō-ri-li), adv. In be \langle Gr. $\dot{a}v\tau i$, against, $+\dot{a}\rho\chi\dot{o}_{\zeta}$, rectum.] An anticipation; beforehand. Buskin, Notes, I. 71. anticipation; before [Rare.] N. E. D.

anticipatoriness (an-tis'i-pā-tō-ri-nes), n. In psychol., a complex feeling accompanying the antecedent image in volition.

The antecedent image is not a volition, unless it includes a certain realized anticipatoriness, which we may describe roughly as 'the thought of a real happening.'

M. W. Calkins, Introd. to Psychol., p. 300.

anticize (an'tik-iz), v. i.; pret. and pp. anticized, ppr. anticizing. [antic + -ize.] To play antics; cut capers; caper about; frolic. Browning, Prince Hohenstiel, 1.1307. [Rare.] N. E. D.

anticlinal, a.—Anticlinal cells, parent-cells that persist and do not produce antipodal cells. They may be (a) inert, (b) active (albuminigenous), or (c) cotyloid. Vesque.—Anticlinal planes. Same as **anticlinal valley.—Anticlinal valley, a valley whose general course follows the arch of folded strata: contrasted with a **synclinal valley, which follows the trough.—Anticlinal vertebra.—Anticlinal vertebra.—Anticlinal vertebra walls, walls outting the surface, or periclinal walls at right angles. Also anticlinal planes. anticlinal, a .-

anticlinorium (an-ti-kli-nō'ri-um), n.; pl. anticlinoria (-ā). [NL., < anticline + -orium.]
A mountain formed by an anticline; a series of folds in which the anticlinal type predominates: a series of great arches with many minor undulations.

anti-clockwise (an-ti-klok'wiz), a. and adv.

I. a. Noting or characterized by a rotatory motion contrary to that of the hands of a clock: as, an anti-clockwise direction.

II. adv. In an anti-clockwise manner.

anticoagulant (an'ti-kō-ag'ū-lant), a. and n. [anti-+ coagulant.] I. a. Possessing the property of retarding or preventing coagulation, especially of the blood. *Buck*, Med. Handbook,

II. n. Any agent which retards or prevents coagulation.

anticoagulin (an'ti-kō-ag'ū-lin), n. An anti-

body to a coagulin.

anticolous (an'ti-sē'lus), a. In ornith., noting that condition of the intestine in which its folds are united by the mesentery and are al-

ternately turned in opposite directions.

anticoherer (an'ti-kō-hēr'er), n. [an coherer.] A device which, like a coherer, is a detector of electric waves, but whose resistance is increased by them.

anticomplement (an-ti-kom'plē-ment), n. The antibody to a complement. Substances of this order result by immunizing animals with normal serum; they inhibit the action of the corresponding complements.

anticor (an'ti-kōr"), n. [Also anticore, antecor, anticour; anti- + L. cor, heart.] A circumscribed swelling or slough on the neck of a horse in the region of the collar, resulting from pressure of badly fitting harness or from irritat-ing masses of dirt, sweat, or hair under the

Anticosti group. See *group1.
anticreep (an'ti-krep), a. In mech., preventing creeping: applied specifically to devices for keeping the rails of a railway from creeping or moving lengthwise, and for diminishing the lengthwise motion of flat leather belts upon their pulleys.

anticryptic (an-ti-krip'tik), a. [Gr. αντί, against, + κρυπτός, hidden.] In biol., serving to conceal or fitted for concealing one organism to the disadvantage of another: as contrasted with procryptic, serving to hide an organism for its own welfare.—Anticryptic colors, in 2001, those colors which cause an animal to resemble its surroundings, or some other species, and thus facilitate the capture of prey. Thus some spiders closely resemble parts of flowers, and so are enabled to capture insects, while the weasel so harmonizes with the snow in winter and the earth in summer that it can approach its urner unnoticed. proach its prey unnoticed

anticyclic (an-ti-sī'klik), a. In math., two on a circle, the other two inverse as to that circle: said of four points.

anticyclonal (an-ti-sī'klō-nal), a. anticyclonic.—Anticyclonal gradient, the barometric gradient directed away from the center of an anticyclone, especially in the outer portions of the anti-

anticyclonic, a.—Galton's anticyclonic law. See

anticytolysin1 (an-ti-sī-tol'i-sin), n. The antibody to a cytolysin.

These cytolytic or, as some prefer to call them, cytotoxic sera, when introduced into the living bodies of the species from which the cells inciting their formation are derived, act as toxins to which the organism responds, each after its kind, by the development of anticotic substances. These are called anticytolysins or anticytotoxins.

Med. Record, Feb. 14, 1903, p. 247.

In anticytotoxin (an-ti-sī-tō-tok'sin), n. Same

as *anticytolysin.
antidiabetic (an-ti-dī-a-bet'ik), n. An agent or medicine that will prevent or cure diabetes; specifically, a drug which diminishes the elimination of sugar.

anti-diastase (an-ti-dī'as-tās), n. An antibody

which inhibits the action of diastase.

Antidicomarian (an'ti - dī - kō - mā'ri - an), n. Same as Antidicomarianite.

antidiphtheritic (an'ti-dif-or-dip-thē-rit'ik), a. [anti-+ diphtheritis + -ic.] Antagonistic to the toxin of diphtheria: as, antidiphtheritic eerum

Antidiphtheritic serum has, in the few short years of its existence, so thoroughly proved its value and reliability that the failure of other antitoxic serums to produce equally good results has resulted in disappointment, and in some distrust of serum therapy in general.

Therapeutic Gazette, Feb. 15, 1908, p. 97.

8.ntidote, n.— Chemical antidote, an antidote which combines chemically with the poison to form an innocuous compound.

ous compound.

antidromal, a.—Antidromal torsion, a twisting of a twining stem or organ in a direction opposite to that of twining.

antidrome (an'ti-drōm), n. and a. [Gr. ἀντί-δρομος: see antidromous.] I. n. Same as *heterodrome.

II. a. Same as antidromous.

The blaze reaction, whether unequivocal (homodrome) or equivocal (antidrome), requires ahort strong currents for its manifestation. Nature, Sept. 18, 1902, p. 191.

anti-enzym (an-ti-en'zim), n. The antibody

to an enzym. (an-ti-en'zim), n. The antidouy to an enzym. Also antiferment.

We have already seen that bacteria are not digested in the alimentary canal and it is a familiar fact that ascarides can survive the digestive juices and it has recently been shown that the body wall of ascaria contains an anti-enzyme to pepsin. But what is more important and interesting is the fact that the human stomach wall contains an anti-enzyme to its own ferment.

Lancet, April 4, 1908, p. 946.

anti-epithelial (an-ti-ep-i-the'li-al), a. Noting a serum obtained on immunization with epi-thelial cells and accordingly containing epitheliotoxins.

anti-expansionist (an'ti-eks-pan'shon-ist). n.
In recent United States politics, one who is opposed to the expansion of the United States by acquisition or conquest of new territory beyond the seas.

antifebrine (an-ti-feb'rin), n. Acetani employed in medicine as an antipyretic. Acetanilide:

antiferment, n. 2. A specific antibody which will inhibit the action of the corresponding ferment. The gastro-intestinal mucous membrane and possibly all the tissues of the animal body probably protect themselves against autodigestion by such means.

antifever-tree (an-ti-fe'ver-tre), n. Same as

fever-tree, 1.
antifony, n. A simplified spelling of antiphony.
antifrasis, n. A simplified spelling of antiph-

antifreezing (an-ti-frē'zing), p. a. Not capable of freezing; preventive of freezing.
antiglobulin (an-ti-glob'ū-lin), n. A specific precipitin corresponding to globulins.

Antigonia (an-ti-gō'ni-ā), n. [NL., < (†) Gr. 'Αντιγόνη, a personal name.] A genus of fishes allied to the boar-fish, Capros, found in tropical seas. The color is salmondad the head in red and the body is much compressed, being

deeper than it is long. Antigoniidæ (an-ti-gō-nī'i-dē), n. pl. The family of boar-fishes. The principal genera are Capros and Antigonia. Also Caproidæ.

antigopher-plant (an-ti-gō' fèr-plant), n. [anti- + gopher + plant.] Same as mole-tree. antigravitate (an-ti-grav'i-tāt), v. i. [anti- + gravitate.] To rise from the surface of the earth; to be repelled, instead of being attracted like ordinary matter, in a gravitational field of form

The author refers to Hovenden's theory of a substance or fluid which, when uninfluenced by external forces, rises from the surface of the earth or "antigravitates." Electrochem. Industry, June, 1904, p. 250.

antihalation (an'ti-hā-la'shon), a. Counteracting the effects of halation.—Antihalation plate, a photographic dry plate so prepared that the rays reflected from the glass-support do not affect the sensi-

antihemolysin (an'ti-hē-mol'i-sin), n. physiol. chem., an adaptation-product which inhibits the action of the corresponding hemolysin. Its action is dependent upon the simultaneous formation of an anti-amboceptor and

an anticomplement. Also antihæmolysin.

antihemolytic (an-ti-hem-ō-lit'ik), a. Inhibiting hemolysis. Science, May 27, 1904, p. 831. ing hemolysis. Sci Also antihæmolytic.

antiheterolysin (an'ti-het-e-rol'i-sin), n. antibody resulting on immunization with a

heterolysin.
antihidrotic (an-ti-hī-drot'ik), a.

antihydrophobic (an'ti-hī-drō-fō'bik), a. [anti-hydrophobic (an'ti-hī-drō-fō'bik), a. [anti-hydrophobic (an'ti-hī-drō-fō'bik), a. [anti-hydrophobic (an'ti-hī-drop'ik), a. and n. [anti-hydrophobic (an'ti-hī-drop'ik), a. [anti-hydrophobic (an'

immune body.— Anti-immune body, the antibody to an amboceptor. Such bodies result on immunization with specific immune bodies (amboceptors).

The "anti-body" prevents the linking of the immune ody to the cell receptor and hence acts as an anti-imtor and hence acts as an anti-im-Med. Record, Feb. 14, 1908, p. 247.

anti-imperialism (an'ti-im-pē'ri-al-izm), n.
The principles or spirit of the anti-imperialists.
anti-imperialist (an'ti-im-pē'ri-al-ist), a. and n. I. a. Pertaining to the ideas of the anti-imperialists.

II. n. One who is opposed to imperialism, or to the spirit, principle, or methods of empire; specifically, in United States politics, one who is opposed to the acquisition and government of dependencies beyond the seas by the ment of dependencies beyond the seas by the arbitrary will of President or Congress, without regard to the rights of the people to self-government. In use especially since the Spanish-American war of 1898.

anti-imperialistic (an'ti-im-pē'ri-a-lis'tik), a. Same as *anti-imperialist.

anti-intermediary (an'ti-in-ter-mē'di-ā-ri), a.
Used only in the following phrase.—Anti-intermediary body. Same as *anti-amboceptor.

mediary body. Same as *anti-amboceptor.

The next experiment was to determine whether any action was exerted by venom upon the complements of these sera. For the purpose of obtaining the serum-complement free from the intermediary body, the rabbit was treated with dog's serum heated to 56° C. In this way the anti-intermediary body was obtained, which, when heated to 56° C. (be remove rabbit's complement) and added to fresh dog's serum, neutralized the action of the latter upon rabbit's corpuscles. From this it could be concluded that the intermediary body of the dog's serum was neutralized by the anti-intermediary body ontained in the immunized rabbit's serum, leaving behind the pure dog's complement in the fluid.

Jour. Exper. Med., VI. 299.

anti-isolysin (an'ti-i-sol'i-sin), n. An anti-body which will inhibit the action of the corresponding isolysin.

antikamnia (an-ti-kam'ni-ä), n. [Irreg. ⟨ Gr. aντί, against, + κάμνειν, suffer, be ill.] The trade-name of a preparation for medicinal use, antipyretic and anodyne in its action. It is said to contain acetanilide.

antikinase (an-ti-kin'as), n. In physiol. chem., a substance which inhibits or prevents the ac-tion of a kinase: such bodies occur in bloodserum.

antilactase (an-ti-lak'tās), n. An antiferment which will inhibit the cleavage of lactose into glucose and galactose by means of lactase.

antilactoserum (an'ti-lak-tō-sē'rum), n.; pl. antilactosera (-ri). A serum containing the antiprecipitin corresponding to lactoserum, which will therefore inhibit the action of the latter.

antileucotoxin (an'ti-lū-kō-tok'sin), n. antibody to a leucotoxin.

Antilopine kangaroo. See *kangaroo. antilysin (an-ti-li'sin), n. [Also erron. antilisin.] The antibody to a given lysin.

antilytic, a. 2. Inhibiting the lytic action of a substance.

antimalarial (an'ti-mā-lā'ri-al), a. [anti-+ malaria + -al.] Preventive or curative of malaria.

antimephitic (an'ti-mē-fit'ik), a. [anti-+mephitis + ic.] Tending to purify the atmosphere; destructive of noxious emanations.

antimeron (an-tim'e-ron), n.; pl. antimera (-rä). [NL.: see antimere.] Same as antimere.
antimerous (an-tim'e-rus), a. Antimeric; per-

taining to paired organs.

antimetrically (an-ti-met'ri-kal-i), adv. As against the metric system of weights and measures. [Nonce-word.]

The questions propounded . . . are clearly biassed antimetrically.

Electrical World and Engineer, Nov. 28, 1908, p. 867.

antimetropia (an'ti-me-trō'pi-ä), n. [NL., \langle $\dot{a}\nu\tau i$, against, + $\mu \dot{\epsilon}\tau \rho o \nu$, measure, + $\dot{\omega}\psi$, eye.] A condition in which myopia exists in one eye and hypermetropia in the other.

An antimetropic (an'ti-me-trop'ik), a. Relating to or of the nature of antimetropia.

Jour., June 2, 1904, p. 977.

antimiasmatic (an'ti-mi-az-mat'ik), a.

Antimonious sulphid, a substance occurring as a natural mineral, stibnite, the chief source from which antimony and its other compounds are obtained. Arrificially prepared, it was formerly called mineral kernes and golden sulphid of antimony; it is still occasionally used in medicine, but the official preparation usually contains a little of the oxid of the metal.

antimonsoon (an'ti-mon-sön'), n. [anti-+monsoon.] 1. A current of air moving in a direction opposite to that of the monsoon: it may lie above the monsoon proper, but is generally strongest on the west side of it; the northerly wind which opposes the principal southwest monsoon of India, and is overcome by it.—2. A northerly wind of the Gulf States opposed to the southeasterly winds that draw inward from the Gulf toward the dome of the western continent in the spring and summer seasons and constitute light monsoon winds.

Antimony glass. See glass of antimony, under glass.—
Antimony other, a name sometimes given to oxidized ores of antimony when of earthy or pulverulent texture.—Feathered antimony, refined metallic antimony showing distinct crystalline structure by feather like markings on the surface of the ingot.—Plumose antimony. Same as feathered *antimony.—Tartarized antimony. Same as tartar resetic.

antimony. Same as tartar emetic.

antimonyl (an'ti-mō-nil), n. [antimon(y) +
-yl, ⟨ Gr. ὖλη, matter, substance.] In chem., a compound radical having the constitution SbO and exhibiting the valence of a monad.

antimony-salt (an'ti-mō-ni-sâlt'), n. A tradename for a double salt of antimony fluoride and ammonium sulphate which has the formula $\mathrm{SbF_3(NH_4)_2SO_4}$. It is sold as a substitute for antiphase (an'ti-fāz), n. and a. I. n. Oppotartar emetic, and is used chiefly as a fixing sition of phase, or difference of phase amountagent for tannin in the application of the basic ing to one half period or 180 degrees.

colors.

Antimora (an -tim' \hat{o} -r \hat{s}), n. [NL., \langle (\hat{t}) Gr. $\dot{a}\nu\tau\dot{\mu}\rho\rho\sigma_{c}$, corresponding, part to part, \langle $\dot{a}\nu\tau\dot{\iota}$, opposite to, + $\mu\dot{\epsilon}\rho\sigma_{c}$, part ($\mu\dot{\epsilon}\rho\sigma_{c}$, lot).] A genus of deep-sea Gadidæ, allied to the ling.

antineuralgic (an'ti-n \hat{u} -ral'jik), a. and n. [anti- + neuralgia + -ic.] I. a. Curative of powering a

neuralgia.

II. n. A remedy employed in the treatment of neuralgia

anting-anting (än'ting-än'ting), n. [Tagalog anting-anting, a charm, amulet: same as Malay anting-anting, an ear-ring.] A charm supposed to protect the owner from injury, especially from bullets. [Philippine Is.]

antiniad (an-tin'i-ad), adv. [Appar. irreg., < L. ante, before, +-in² + -i- +-ad³.] Forward; toward the anterior portion of the cranium, like the horns of a musk-ox. [Rare.] Sir J. Richardson, Zoöl. of the 'Herald.'

antinion (an-tin'i-on), n. [Gr. avr/, against, opposite to, + ivlov, the back of the head.] The antinial region. See antinial.

antinonnin (an-ti-non'in), n. A trade-name for a mixture of orthodinitrocresol, soap, and glycerol, used in very dilute solution as a disinfectant and preservative.

antinosine (an-tin'ō-sin), n. [Gr. ἀντί, against, + νόσος, disease.] The sodium salt of nosophen (tetra-iodo-phenolphtalein), a bluish, soluble powder, used as a substitute for iodoform.

antiodontalgic (an'ti-ō-don-tal'jik), a. [anti-antipodagric (an'ti-pō-dag'rik), a. and n. + odontalgia + -ic.] I. a. Relieving tooth- [anti-+podagra+-ic.] I. a. Curative of gout. ache.

II. n. A remedy for gout.

II. n. A remedy for toothache.

Antiopa butterfly. See butterfly. *triangle.
antiophidic (an'ti-ō-fid'ik), a. A term applied antipoint, *s.
by Vital to a serum devised for the treatment circles, anoth of snakebite, and supposedly of universal effi-cacy. It is a mixture of equal parts of bothropic and anticrotalic serum.

antiparallelogram (an'ti-par-a-lel'ō-gram), n. Same as *contraparallelogram. antiparamœcious (an'ti-par-a-mē'shus), a.

Applied to a serum resulting on immunization with paramecium, an organism belonging to the protozoa.

antiparasitic (an"ti-par-a-sit'ik), a. and n.

[anti- + parasite + -ic.] I. a. Inimical to parasites.

II. n. A remedy employed for the destruction or removal of parasites.

antipathacean (an'ti-pa-thā'sē-an), a. and n.

[Antipathacea + -an.] I. a. Pertaining to or having the characters of the Antipathacea.

II. n. One of the Antipathacea.

II. n. One of the Antipathacea.

Antipatharia, n. pl. 2. An order or a suborder of Zoantharia. They are colonial and tree-like in form, with tentacles and mesenteries 6 to 24 in number and a skeleton in the form of a branched chitinoid axis, developed from the ectoderm, which extends throughout the colony. The "black corals" belong in this group, which includes the families Savagliids, Antipathids, and Denderment the families Savagliids, Antipathids, and Denderment the families of the same and th

Antipathides (an'ti-pa-thid'ē-ë), n. pl. [NL., Antipathes + -idea.] An order of colonial Zoantharia paramera with a spinose, horny, usually branching axial skeleton on which the zooids are seated. Six tentacles are usually longer than the others, and six primary mesenteries are always present. It includes the families Antipathids, Leio pathids, and Dendrobrachids.

antipedal (antip'e-dal), a. [Gr. avri, against, + L. pes (ped-), foot, + -al.] Situated opposite to the foot: as, the antipedal area of a mollusk. Lankester.

antipepsin (an-ti-pep'sin), n. The antibody to pepsin, which inhibits the action of the lat-

antipeptone, n. 2. In immunity, a specific precipitin corresponding to peptones.—Fibrin antipeptone, antipeptone obtained from fibrin.

antipericelous (an 'ti-per-i-sē'lus), a. In ornith., having the second intestinal loop open, right-handed, and inclosing the third, which is left-handed and closed.

anti-pest (an 'ti-pest), a. Same as *anti-

antiphagocytic (an'ti-fag-ō-sit'ik), structive to phagocytes.—Antiphagocytic serum, a serum which causes the destruction of phagocytes.

An antiphagocytic serum, prepared in this sense, has produced its demolishing effect not only upon the macrophages, but also upon their enemies, the useful microphages.

Med. Record, July 18, 1903, p. 83.

II. a. Of or pertaining to an antiphase. antiphonic, a. 2. In anc. Gr. music, of or pertaining to the interval of an octave: opposed

to *paraphonic.
antiphthisical (an-ti-tiz'i-kal), a. [anti-phthisic + -al.] Same as antiphthisic.
anti-plague (an'ti-plag'), a. Used in the treatment or as a preventive of plague: as, anti-plague serum.

antiplanat (an'ti-pla-nat'), n. [G. antiplanat, A triple nat (an 'ti-pla-nat'), n. [G. antiplanat, ⟨ Gr. ἀντί, against, + L. planatus, made plane: see planation.] A combination of lenses, invented in 1881 by Adolph Steinheil, in which there are two members having large opposite aberrations which correct each other.

antiplanatic (an'ti-pla-nat'ik), a. Used erroneously, for aplanatic. antiplateau (an "ti-pla-tō'), n.

the general ocean-floor which sinks to a greater depth than the average sea; a deep. Such areas are contrasted with plateaus, and extend downward from the ocean-floor in much the same manner in which plateaus protrude above the continental surface. Chamberlin and Salisbury, Geol., I. 8.

antiplenist (an-ti-ple nist), n. [anti + plenum + -ist.] One who does not believe that space is a plenum (wholly occupied with matter); a

antipneumococcic (an"ti-nū-mō-kok'sik). [anti- + pneumococcus + -ic.] Tending to destroy or prevent the development of pneumococci: as, an antipneumococcic serum. oyc. Brit., XXXI, 526.

Antipodal cone, triangle. See *cone and

(b) Given any system of coaxal circles, another system of coaxal circles may be constructed such that every circle of either system cuts orthogonally every circle of the other system. The limiting points of either system are the antipoints of the limiting points

of the other system.

Intipole, n. 2. In cytol., a term applied to antipole, n. 2. In cytol., a term applied to one of the two poles of the karyokinetic spindle of the dividing cell, the term pole being reserved for the one under immediate consideration.

antipolo (än-tē-pō'lō), n. [Tagalog name.] A name in the Philippines of the fertile breadfruit tree." (Artocarpus communis), the sterile form of which is called (in Bisayan) coló. The seeds, sometimes called bread-nuts, are roasted and eaten like those of the jackfruit, and the milky latex is used for bird-lime and as pitch for calking boats. Cances are made of the logs, but they do not resist exposure to the weather and must be painted and kept covered when out of the water. The wood is soft and of a yellow color. It is used for interior woodwork in construction, but is not suitable for posts or sleepers. Also called tipolo, and on the island of Guam dugdug. See Artocarpus, breadfruit, *bread-nut, and *dugdug.

antiprecipitin (an'ti-pre-sip'i-tin), n. The

sntiprecipitin (an'ti-prē-sip'i-tin), n. The antiprecipitin (an'ti-prē-sip'i-tin), n. The antipody to a precipitin, which will inhibit the action of the latter. See *antibody.
antipruritic, a. II. n. A remedy which tends to relieve itching.
antipudic (an-ti-pū'dik), a. Used or worn to prevent shame; intended to cover the pudendum, for the sake of decency.

The men in certain islands [of Melanesia] wear only antipudic garments.

Deniker, Races of Man, p. 499.

antiputrid (an-ti-pū'trid), a. and n. I. a. Antiputrescent; antiputrefactive; antiseptic. II. n. Any substance which has the power of inhibiting, preventing, or destroying putrefaction. Diseases of the Horse, U. S. Dept. Ag., 1903, p. 511.

antipyresis (an-ti-pir'ē-sis), n. [Gr. ἀντί, against, + πυρετός, fever.] Reduction of fever; treatment for the reduction of fever. antiquarianize (an-ti-kwā'ri-an-īz), v. i.; pret.

and pp. antiquarianized, ppr. antiquarianizing. To engage in antiquarian pursuits or research.

antiquarianly (an-ti-kwā'ri-an-li), adv. As an antiquarian; in the manner of an antiquarian. Walpole, Letters, I. 37. [Rare.] N. E. D.

Antirabic serum, a serum intended to inhibit the action of the specific virus of rabies. Encyc. Brit., XXIX. 377.

antirattler (an-ti-rat'ler), n. A device for holding a bolt and eye together to prevent rattling without interfering with the movenient.

antirealism (an-ti-rē'al-izm), n. [anti- + real + -ism.] The doctrine that there is nothing whose characters are independent of all actual thought about them.

The "anti-realism," which takes the lion's share in "transfigured realism," is simply a development of the phenomenalism of Hume.

Encyc. Brit., XXX. 676.

antirennet (an-ti-ren'et), n. The antibody to the action of rennin (chymosin). See *anti-

antirentism (an-ti-ren'tizm), n. [antirent + -ism.] The principles of the Antirent party (which see)

antirevisionist (an'ti-rē-vizh'on-ist), n. One who is opposed to a particular measure of revision, as, in recent French history, one who is opposed to a revision of the constitution.

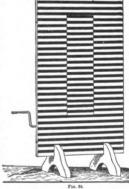
antirheumatic (an'ti-rō-mat'ik), a. and n. I.

a. In med., tending to prevent or cure rheumatism.

II. n. A remedy for rheumatism.

antiricin (an-ti-ri'-sin), n. The antisin), n. The antibody to ricin. See *antibody.

antirrheoscope (an-ti-rē'ō-skōp), n. [Gr. ἀντί, against, + ῥεῖν, flow, + σκο-| Gr. avr., against, + ρεῖν, flow, + σκο πεῖν, view.] In psy-chol., the artificial waterfall; an ap-paratus in which a band of horizontally striped cloth moves up or down upon a stationary background of the



same material: used for the demonstration of after-images of motion.

antiscion (an-tis'i-on), n. [NL. antiscion, < the alula. A. S. Packard, Text-book of En-Gr. αντίσκιον, neut. of αντίσκιος: see antiscian.] tomology, p. 124. In astrol., a sign of the zodiac equidistant with antisquamic (an-ti-skwam'ik), a. and n. [antianother sign on the opposite side. Signs hav-ing north declination are called *commanding*,

Jews. The name is given especially to those who have participated in the agitation against the Jews in Germany, Russia, and Austria which began about 1878.

Anti-Semitic (an'ti-sē-mit'ik), a. Of or per-

taining to the Anti-Semites.

Anti-Semitism (an'ti-sem'it-izm), n. The agitation conducted by the Anti-Semites or its motives; antagonism to the Jews.

antisepsine (an -ti-sep'sin), n. A colorless crystalline compound, C₆H₄Br.NH.CH₃CO, obtained by adding bromine to a solution of acetanilide in glacial acetic acid; para-bromacetanilid. It is antipyretic. Also called asep-

antiseptol (an-ti-sep'tōl), n. [antisept(ic) + -ol.] A trade-name for a solution of 25 parts of cinchonine sulphate in 2,000 parts of water, mixed with a solution of 10 parts of iodine and 10 parts of potassium iodide in 1,000 parts of water. It is used as an antiseptic.

**antiserum* (an-ti-sē'rum), n.; pl. antiserums (-rumz) or antisera (-rä). A serum containing the antibody to a given immunizing substance, as antidiphtheria serum, antitetanus serum, etc. See **immunity.

The author has produced a specific antiserum by the successive inoculation of animals with this toxin. Such an antiserum absolutely destroys the action of the toxin when the two are mixed in vitro. It also causes the symptoms produced by the toxin to rapidly disappear if inoculated subcutaneously or instilled into the eye of a susceptible individual shortly after such a toxin has been similarly introduced. similarly introduced.

Med. Record, March 28, 1908, p. 511.

antisicular (an-ti-sik'ū-lār), a. [NL. anti, opposite to, + sicula, sicula.] Opposite the sicula: used to designate the part of the graptolite rhabdosome which is opposite the sicula-

bearing or sicular end.

antisilverite (an-ti-sil'ver-īt), n. In recent
United States politics, one who is opposed to

the free coinage of silver.

antisiphonal (an-ti-si'fo-nal), a. [NL., < Gr. aντ, opposite to, + σίφων, pipe: see siphon.] Lying opposite to the siphonal (lobe): in the terminology of the ammonoid cephalopod shell, noting a lobe of the suture which lies on the inner dorsal side of the whorl and opposite to that on the ventral surface, called the siphonal lobe. Both of these are present in, and are indicative of, primitive stages, and become modified in progressed conditions.

conditions.

Antislavery china. See *china.
antisocial, a. 3. Specifically, in sociol., pertaining to a class of persons devoid of normal social instincts and showing criminal tendencies. Giddings, Prin. of Sociol., p. 72.
antisociality (an'ti-sō-shi-al'i-ti), n. A quality, act, or habit of an individual, class, or group which is antagonistic to social feeling, habit, or interest. Extreme antisociality is criminality. Amer. Jour. Psychol. XIII. 586.

or interest. Extreme antisociality is criminality. Amer. Jour. Psychol., XIII. 586.

antisolar (an-ti-sō'lär), a. Situated at the point in the heavens opposite the sun, as the

center of the rainbow, or the 'gegenschein.' antispace (an'ti-spās), n. In math., that part of the complete spatial manifold which is without the absolute: that part which is inclosed within the absolute is called space.

antispectroscopic (an-ti-spek-trō-skop'ik), a.

Such as to counteract the spectroscopic effect. Wall, Dict. of Photography, p. 44. antispermotoxin (an-ti-sper-mō-tok'sin), n. The antibody to a spermotoxin, which inhibits the action of the latter. See *antibody. antispermy (an-ti-sper'mi), n. [Gr. avri,

antispermy (an -tit-sper'mi), n. [Gr. ἀντί, against, + σπέρμα, seed.] In spermatophytes, the coalescence of the fertile divisions of the phyllomo into a circle fertile divisions of the phyllome into a single fertile body opposed to and superposed upon the sterile division. Delnino.

antisporangism (ar-ti-spō-ran'jizm), n. αντί, against, + sporangium + -ism.] In pteridophytes, the condition corresponding to anti-

spermy in spermatophytes. Delpino. antisquama (an-ti-skwā'mä), n.; pl. antisquamæ (-mē). [NL., \langle Gr. $\dot{a}\nu\tau i$, against, + L. squama, scale.] The middle one of three basai lobes of the wing of a dipterous insect, the inner one being the squama and the outer one the alula. A. S. Packard, Text-book of Entomology, p. 124.

+ L. squama, scale, + -ic.] I. a. In med., tending to prevent or cure scaly affections of

those with south declination obeying.

Anti-Semite (an'ti-sem'ît), n. One who seeks
by political or other means to lessen the completical or social influence of the lessen the completic or social influence or social in

destroy or hinder the development of staphy. lococci. Med. Record, March 28, 1903, p. 510. antisteapsin (an-ti-stē-ap'sin), n. An anti-body which will inhibit the action of steapsin. antistrephon (an -tis' tre -fon), n. [Gr. αντι-στρέφων, ppr. of αντιστρέφειν, turn against: see antistrophe.] In logic, an argument in a lawsuit which is of such a nature that either party may urge it against the other with some apmay urge it against the other with some appearance of conclusiveness. Antistrephons belong to the general class of crocodiles, the following stock example being from Aulus Gellius. Eusthius agreed to pay Protagoras, his teacher in rhetoric, a large sum of money should he win his first case in court. Having received the instruction, but not having had any case in court, he was sued by Protagoras for the amount, on the ground that should Eusthius win the suit he must pay, according to the contract (and a second suit would compel him to do so), while if the suit went the other way the court would compel payment. Eusthius replied that if the court decided in his favor that must be final, while if the court decided against him a further proceeding would award the money to him.

antistreptococcal (an'ti-strep-to-kok'al)

antistreptococcal (an'ti-strep-to-kok'al). Same as antistreptococcic.

antistreptococcic (an'ti-strep-tō-kok'sik), a. [anti-+ streptococcus + -ic.] Tending to destroy or hinder the development of streptococci: as, antistreptococcic serum. Nature, July 9, 1903, p. 227.
antistrofe, n. A simplified spelling of antis-

antistrophic, a. 2. Enantiomorphous. antistrophize (an-tis'trō-fiz), v. i.; pret. and pp. antistrophized, ppr. antistrophizing. [antistrophe + ize.] To form an antistrophe; correspond, but in inverse order. De Quincey, Blackwood's Mag., LI. 12. [Rare.] N. E. D.

antisubstance (an'ti-sub-stans), n. Same as *antibody. See *adaptation-product. Jour. Exper. Med., V. 62.

antisudorific (an'ti-sū-dō-rif'ik), a. and n. [anti- + sudorific.] I. a. Tending to repress the secretion of sweat. Buck, Med. Handbook, I. 338.

II. n. A remedy possessing this property.

antisun (an-ti-sun'), n. 1. The point in the sky diametrically opposite the sun.—2. A point in the sky opposite the sun in azimuth, but having the same altitude as the sun, and therefore not diametrically opposite to it. This use of the word is common only in describing halos and parhelia. Encyc. Brit., XXX. 705.

antitegula (an-ti-teg'ū-lä), n.; pl. antitegulæ (-lē). [NL., < Gr. artí, against, + L. tegula, tile.] Same as *antisquama.

antiteleology (an'ti-tel-ē-ol'ō-ji), n. [anti- + teleology.] That attitude of mind which fails teleology.] That attitude of mind which fails or refuses to see any proof of teleology in nature; the doctrine or tendency which disputes all attempts to show that there are actions in nature determined by anything which is to be in the future.

antitetanic (an'ti-tet'a-nik), a. [anti- + teta-nus + -ic.] Tending to destroy or prevent the development of tetanus bacilli; preventive or curative of tetanus: as, antitetanic serum. Science, June 26, 1903, p. 1006.

antitetanin (an'ti-tet'a-nin), n. The antitoxin to the soluble poison produced by the tetanus bacillus.

antitetanolysin (an-ti-tet-an-ol'i-sin), n. The antibody to tetanolysin.

antithermic (an-ti-thèr'mik), a. [Gr. $\delta v \tau i$, against, $+ \theta \ell \rho \mu \eta$, heat, + -ic.] In med., same as antipyretic. Med. Record, March 7, 1903,

antithermin (an-ti-ther'min), n. [Gr. $\dot{a}\nu\tau_i$, against, + $\theta\ell\rho\mu\eta$, heat, + $-in^2$.] Phenylhydrazinelevulinic acid. It has been used as an antipyretic agent in medicine under this trade-

antithesism (an-tith'e-sizm), n. [Irreg. < antithes(is) + -ism.] An antithetic sentence; an example or instance of antithesis. [Rare.] N. E. D.

antithesistic (an-tith-ē-sis'tik), a. [Irreg. < antithes(is) + -istic.] Presenting an antithesis; contrary: as. antithesistic ideas. Dr. E. Darwin, Zoonomia, IV. 234. [Rare.] N. E. D.

antithesize (an-tith'e-sīz), v. t.; pret. and pp. antithesized, ppr. antithesizing. To put into the form of an antithesis. Burns. N. E. D. antithrombin (an-ti-throm'bin), n. A substance which inhibits the action of thrombin. antitoxic (an-ti-tok'sik), a. and n. I. a. Serving to inhibit or neutralize toxic action; hav-

ing the character of antitoxin.

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The term antitoxic signifies that the serum has the power of neutralizing the action of the toxin.

Encyc. Brit., XXVI. 67.

Antitoxic immunity. See *immunity. - Antitoxic serum, serum containing antitoxin, as antidiphtheritic serum and antitetanic serum. - Antitoxic unit, the unit of antitoxin, of such strength that it will just neutralize the hundredfold minimal fetal does of the service of the s the hundredfold minimal fatal dose of the

II. n. An antitoxic remedy.

titoxin (an'ti-toks'in), n. [anti- + toxin.]

A substance which neutralizes the action antitoxin (an'ti-toks'in), n. of a poison.—2. Specifically: (a) The antibody to a toxin of bacterial or related origin which is produced as the result of immunization with the corresponding toxin. Examples are the diphtheria antitoxin and the tetanus antitoxin. (b) In bot., a substance secreted by a plant which protects it against destructive plant which protects it against destructive microbes.—Fernbach's antitoxin flask, a special form of culture-flask used for cultures of diphtheria.—Streptococcus antitoxin, an antitoxin obtained by repeated inoculations of horses with streptococcus cultures: employed by hypodermic injection in the treatment of erysipelas, puerperal fever, septicemia, and other conditions in which there is infection by streptococci. Also called antistreptococcus serum.

antitragal (an-tit'rā-gal), a. Of or pertaining the antitragus, or projection on the inferior side of the opening of the ear.—Antitragal notch, in zoöl., the notch or emargination at the base of and behind the antitragus, which marks its posterior boundary. The phrase is much used in describing the ears of bats. Annals and Mag. Nat. Hist., May, 1904, p. 886.

antitrust (an-ti-trust'), a. Opposed to the

antitrust (an-ti-trust'), a. Opposed to the power or development of trusts, or of large

combinations of capital.

antitrypsin (an-ti-trip'sin), n. An antibody which inhibits the action of trypsin. Normal blood sometimes contains such a body. Science, Aug. 19, 1904, p. 243.

antitryptic (an-ti-trip'tik), a. [anti- + tryptic.] Antifermentative. Med. Record, June tic.] Antirerm. 27. 1903, p. 1043.

antituberculous (an'ti-tū-ber'kū-lus), a. [anti-+ tubercul(osis) + -ous.] Tending to prevent or cure tuberculosis. Med. Record, July 25, 1903.

antitussin (an-ti-tus'in), n. [See *antitussive.] A white, crystalline, fragrant compound (C_6 - H_4F_2), used in ointments; difluor diphenyl. It is used as an antispasmodic and hypnotic in whooping-cough.

antitussive (an-ti-tus'iv), a. and n. [Gr. avri, against, + L. tussis, a cough.] I. a. Preventing or relieving cough. Buck, Med. Handbook, VI. 573.

II. n. Any agent which possesses this

property

anti-twilight (an-ti-twi'lit), n. The bright arc, or twilight arc, when first seen near the eastern horizon opposite the sun just before sunset, due to sunlight reflected from the illuminated portion of the atmosphere. The twilight arc rises, as the sun sinks lower, and eventually passes westward over the zenith.

antityphoid (an-ti-tī'foid), a. Tending to prevent or cure typhoid fever: as, antityphoid serum. Med. Record, June 27, 1903, p. 1043. antivaccination (an'ti-vak-si-na'shon), a.

Opposed to the practice of vaccination; considering or dealing with the subject of antivaccination: as, an antivaccination lecture; the antivaccination movement.

antivenene (an'ti-vē-nēn'), n. [anti-+ *ve-nene.] The antibody to venene, which inhibits the action of the latter. Buck, Med. Handbook, VI. 716. Also called antivenin, antivenine.

antivenenian (an'ti-vē-nē'ni-an), a. [Gr. ἀντί, against, + venenum, poison, + -ian.] Same as antidotal. Same as

antivenin, antivenine (an-ti-ven'in), n. [L. anti- + neulenum). poison, + -in².] Same as anti- + ven(enum), poison, + -in2.] *antivenene.

antivenomous (an-ti-ven'o-mus). a. Antagonistic to the action of snake-poison. Buck, Med. Handbook, VI. 715.

antivisectionist (an'ti-viv-i-sek'shon-ist),

n. [anti- + vivisection + -ist.] One who is
opposed to the making of physiologic and
therapeutic experiments on living animals.

Med. Record, Feb. 14, 1903, p. 264.

antlerite (ant'ler-it), n. [Antler (see def.) + -ite².] A hydrated copper sulphate occurring in soft lumps of a light-green color: from the Antler mine, Yucca Station, Arizona.

antodonin (an-tō'dō-nin), n. A pigment found in certain invertebrate animals, notably crinoids. Science, May 31, 1901, p. 847. antonino (än-tō-nē'nō), n. [Sp. (equiv. to E.

Tony), dim. of Antonio, Antony.] A Cuban name of the mackerel-scad, Decapterus macarellus.

antorbital, a.—Antorbital vacuity, in anat., the open space in front of the antorbital plate and behind the maxillary process of the nasal. open space in front of the antorbital plate and be the maxillary process of the nasal.

II. n. 1. In ichth., the preorbital bone.

In ornith., a bony plate morphologically the equivalent of the prefrontal of reptiles, standing at an obtuse angle to the interorbital septum and forming the anterior border of the orbit of the eye.

ant-orchis (aut'ôr'kis), n. An Australian and Tasmanian terrestrial orchid, Chiloglottis Gun-

ant-rice (ant'rīs), n. A grass, Aristida oligan-tha, growing in the clearings around the nests of the agricultural ants of Texas, which feed upon its seeds.

Antrophyum (an-trō'fi-um), n. [NL. (Kaul-fuss, 1824), < Gr. ἀντρον, cavity, groove, + φύειν, grow.] A genus of polypodiaceous ferns, with simple linear-lanceolate to oblong-elliptical fronds and sori borne in continuous lines (either superficial or in shallow grooves, whence the name) following the reticulate venation. There are about 25 species, widely venation. There are about 25 species, widely distributed throughout the humid tropics of both hemispheres

antrorse, a. 2. In ichth., turned forward: said of spines.

antroversion (an-tro-ver'shon), n. [See *antrovert.] A turning forward: same as ante-version. Syd. Soc. Lex. antrovert (an-trō-vert'), v. t. [antro- for an-tero- + L. vertere, turn.] To tip, turn, or bend

forward. Owen.

Intrum femininum, the small tubular entrance to the female generative passage in polyclads.—Antrum masculinum, the outer tubular opening of the male generative organs in polyclada.—Mastoid antrum, the cells in the mastoid process of the temporal bone taken collectively.—Maxillary antrum. Same as antrum High-

spider (ant'spi'der), n. Any one of several spiders which closely resemble ants, forming notable examples of aggressive mimicry.

Antwerp (ant'werp), n. The name of a city in Belgium, used to distinguish a breed of domesticated pigeons having a large, massive head and short, stout beak with a small wattle at the base. They are bred in a variety of colors, but silver, silver-checkered, "creamles," and black are those preferred. These birds fly well and have a strong homing sense: during the France-German war they were used for carrying despatches.—Antwerp rose. See

anubing (a-nö'bing), n. [Philippine Sp. anubing, anubiong, anubin, anubion, Tagalog anobing.] A valuable timber-tree, Artocarpus Cumingiana. It yields a fine grained wood of a yellowish-gray color, which is light and very durable if properly seasoned. It also resists dampness, and is used for posts in house-building. [Philippine Ia]

anuclear (a-nū'klē-ār), a. Non-nucleated; concerning or pertaining to the alleged absence of a nucleus in certain low organisms.

anuhe (ä-nö'hā), n. [Maori anuhe, a large caterpillar, = Hawaiian anuhe, Samoan anufe, etc., a worm, a caterpillar.] The New Zealand caterpillar-fungus, a species of Cordyceps, which attacks certain lepidopterous larvæ. See

anunu (ä-nö'nö), n. [Hawaiian, < anunu, greedy.] In Hawaii, a name of several species of climbing or prostrate herbs belonging to the

genus Sicyos, of the gourd family.
anuretic (an-ū-ret'ik), a. [anuresis (-ret) + -ic.]
Same as *anuric.

anuric (a-nū'rik), a. [anuria + -ic.] Resulting

Anuric (a-nu rik), a. [anuria - -tc.] Resulting from or relating to anuria.

Anus cerebri, the anterior opening of the aqueduct of Sylvius. — Anus vestibularis or vulvovaginalis, a malformation in which the anus is imperforate, the rectum terminating at the vulva.—Artificial anus, an opening made into the large intestine for the purpose of giving exit to the fecal contents in cases of complete obstruction below.

anusim (a-nö'sēm), n. pl. [Heb., 'the forced,' \[
 \left(\alpha \text{anas}, \text{compel}, \text{force, constrain.} \]
 \]
 Jews who
 were forced to accept the Catholic religion at the time of their expulsion from Spain (1492), but who secretly observed the principal tenets of their faith: same as maranos.

Anversian (an-ver sian), a. and n. [F. Anvers, Antwerp.] I. a. Of or pertaining to Antwerp. II. n. In geol., a division of the Miocene in the vicinity of Antwerp, Belgium.

invil, n.—**Plattner's anvil,** a small polished steel block used in blowpipe analysis.

anvil-cutter (an'vil-kut'er), n. A chisel-like cutting instrument whose shank is inserted in a square hole in the face of an anvil, the bar

to be cut being laid upon the cutting edge and

struck with a hammer or sledge.

anvil-paper (an'vil-pā'pèr), n. See *paper.

Anxious seat or bench, a seat, bench, or pew set ap for 'anxious inquirers,' or those who are concerned about their souls salvation and desire advice or confort: often figurative. Haliburton, The Clockmaker.

anytin (an'i-tin), n. A trade-name for a deriva-

tive of ichthyol which is used in dermatological

practice.

anytol (an'i-tol), n. A solution of such a substance as phenol or guaiacol in water containing anytin.

In astron., an abbreviation of Argelander-Oeltzen, referring to a catalogue of south-ern stars observed by Argelander in zones and reduced to a regular catalogue by Oeltzen.

reduced to a regular catalogue by Ueitzen.

303 (ä-ō'ā), n. [Polynesian name.] A name, throughout Polynesia, of the banian-tree (Ficus Aoa and other species). These trees were thought by the natives to be the lurking-places of spirits, and in wome islands were planted near temples. Though not occurring in Hawaii, the aoa is mentioned in the ancient songs of the aboriginal inhabitants. See banian?

A A M M An abpreviation of Artium (histetri-A. O. M. An abbreviation of Artium Obstetri-

carum Magister, Master of Obstetric Arts. aorta, n. 2. In the higher invertebrates, the large blood-vessel leading from the heart, usually anteriorly and posteriorly.—Aorta chlorotica, the small-sized aorta sometimes present in one suffering from chlorosis.

cniorotics, the small-sized aorts sometimes present in one suffering from chlorosis.

Aortic cartilage, the second costal cartilage on the right side, behind which is the arch of the aorts.—Aortic incompetence, or insufficiency, failure of the aortic valve of the heart to close completely, thus allowing of regurgitation of blood into the left ventricle at each diastole.—Aortic isthmus, a narrow portion of the aorta, most marked in the fetus, at the point of attachment of the ductus arteriosus.—Aortic murmur, a cardiac murmur indicating obstruction or insufficiency at the aortic ordice.—Aortic notch, a point in sphygmographic tracing indicating the time of closure of the aortic valve.—Aortic obstruction, a condition in which there are adhesions or thickening of the cusps of the aortic valve, preventing the free flow of blood from the left ventricle into the aorta.—Aortic spindle, a slight fusiform dilatation of the sorta just below the isthmus.

308mic (ā-oz'mik), a. [Gr. ἀσσμος, equiv. to ἀνοσμος, without odor: See anosmia.] Same as *anosmic.

*anosmic. A. P. A. An abbreviation of American Pro-

tective Association.

Apache blue-grass. See *blue-grass. Apachicta (ap-a-chek'tä), n. [Also apachita, apachecta; Quichua of Peru and Aymará.]
In Peru and Bolivia, a heap of stones and twigs raised by the Indians at any prominent landmark, such as a pass, divide, crest, or height. The twigs are symbols of prayers offered on the site to spirits supposed to dwell on or about it, and the stones symbolize an offering. A quid or oud of cheek coca-leaves is invariably deposited there also in sacrifice.

apachite (a-pach'it), n. [Apache (mountains), in Texas, + -ite².] In petrog., a variety of the igneous rock phonolite, first observed in the Apache mountains of Texas, characterized by sodic amphiboles and enigmatite as associates

of the usual sodic pyroxenes, and by microperthite feldspar. Osann, 1896.

apagogically (ap-a-goj'i-kal-i), adv. In an apagogical manner; by indirect demonstration or proof; by reductio ad absurdum. E. Caird,

Philos. of Kant, II. 568. N. E. D. apaidt, p. a. [ME. apaied, etc., pp. of apay.] Satisfied; pleased; repaid. Robert of Gloucester.

apalit (ä-pä'lēt), n. [Phil. Sp.] A name in the Philippines of Pterocarpus Blancoi, a tree with pinnate leaves, smooth, winged pods, and red wood with an aromatic odor. Like other species of Pterocarpus, it is sometimes called narra and asona, and is used for furniture; but it is distinguished by its fragrance, and is sometimes called Philippine ก็กการใกษากล

Apama (a-pä'mä), n. [NL. (Lamarck, 1783), from an Indian name of the type species of the genus.] A genus of dicotyledonous plants of the family Aristolochiaceæ, characterized by the short, three-lobed, campanulate corolla. See Bragantia.

apandry (a-pan'dri), n. [Gr. ἀπό, without, + ἀνήρ (ανόρ-), man, male.] In bot., fusion of the antheridium with the oogonium: also extended to the corresponding organs in spermato-M'Nab.

aparaphysate (a-pa-raf'i-sāt), a. [a-18 + pa-raphysis + -atel.] In bot., destitute of pa-

apasanca (ä-pä-sän'kä), n. [Sp. in Peru and Bohvia, < Peruv. (Quichua) apasanca (Tschudi); also used in Bolivia among the Aymará.] The bush-spider, or great Mygale, of which a smaller variety is found as high as 13,000 feet and more in the Bolivian Andes.

apasote (ä-pä-sō'tā), n. [Also pasote, and in Porto Rico basote; Mex. Sp., (yepatzoti, the Nahuatl name of the plant.] A name in Guam and the Philippine Islands of Chenopodium amand the Philippine Islands of Chenopodium ambrosioides, an aromatic plant of Mexican origin now widely spread over the warmer regions of the earth and commonly known as Mexican tea (which see, under Mexican).

Apate (ap's-tē), n. [NL. (Fabricius, 1775), < Gr. ἀπάτη, deceit, fraud.] A genus of bostrychid beetles which has been subdivided into severally across the specific plants of the several subdivided into severally serval serval.

veral genera by recent authors. A. terebrans Pall. is an inhabitant of Africa.

apatetic (ap-a-tet'ik), a. [Gr. ἀπατητικός, serving to deceive, ⟨ ἀπάτη, deceit.] Concerning or pertaining to the copying, in an animal, of some useful characteristic of another species for the sake of obtaining the like advantage. -Apatetic colors, those colors which cause an animal to resemble some part of its surroundings, or cause it to be mistaken for another species. Poulton, Colours of

Animals, p. 888.

apathetic, a. 2. In biol., of or pertaining to the Apathetica of Lamarck.

the Apathetica of Lamarek.

apathetic-active (ap-a-thet'ik-ak'tiv), a. In psychol., noting a composite character or temperament of the moral or stoical type. Ribot (trans.), Psychol. of Emotions, p. 400.

apathetic-sensitive (ap-a-thet'ik-sen'si-tiv), a. In psychol., noting a composite character or temperament which finds its highest expression in the martyr, the hero, and the creative artist. Ribot (trans.) Psychol of Fmo. tive artist. Ribot (trans.), Psychol. of Emotions, p. 401.

apathic (a-path'ik), a. [As apath-y + -ic.] Without feeling or sensation. Todd, Cyc. Anat.,

I. 107.

Apathus (ap'a-thus), n. [NL. (Newman, 1834). Gr. $a\pi a\theta \eta c$, without suffering: see apathy.] A genus of true bees, of the family Apidx, all lied to the bumblebees of the genus Bombus, which they mimic and in whose nests they lead an inquiline life. The word is a synonym of Psithyrus (St. Fargeau, 1832), and the genus is now generally referred to under that name.

apathy, n. 2. In the Stoic philos., a certain imperturbability produced in the wise man's soul by sincere rejection of the notion that pleasure is in itself desirable, or pain in itself undesirable and by trained watchfulness to exclude all unreasonable passions (all passions affecting

Apatosaurus (ap-a-tō-sá'rus), n. [NL., < Gr. aπάτη, deceit, + σαὐρος, lizard.] A genus of dinosaurian reptiles of the family Camarasauridæ, described by Marsh from the Upper Jurassic rocks of Colorado.

A. P. D. An abbreviation of Army Pay Department.

ape² (ä'pā), n. [Hawaiian.] 1. Gunnera petabidea, a plant of the high mountain slopes of Hawaii, bearing large, broad, reniform leaves from two to three feet in width.— 2. A name in the Hawaiian and Society islands of Aloca-



A, inflorescence with spathe removed: a, female flowers at base of spadix; b, male flowers; c, neutral zone; d, terminal appendage. (After figure in Engler and Prantl's "Pflanzenfamillen.")

sia macrorhiza, an aroid plant with large, oval, sia macrorniza, an arolo piant with large, oval, sagittate leaves. It is cultivated in India, China, and many of the Polynesian islands, where the leaves of the very young plant and the corns are eaten after volatilizing the acrid principle by drying or the application of heat. Also called apit in Hawaii.

ape-cleft (ap'kleft), n. Same as *ape-fissure.

Buck, Med. Handbook, II. 278.

apedioscope (a - ped'i - ō - skōp), n. [Gr. άpriv. + πεδίου, a plain (taken as 'plane'), +
σκοπείν, view.] An apparatus for observing stereoscopic projections. It consists of a wooden box having two apertures for the eyes of a spectator, who views one picture in a direct line while the other picture is superposed on the first by the aid of a couple of mir-

ape-fissure (āp'fish'ūr), n. A deep fissure in the occipital lobe of the brain, present in the ape and occasionally also in man. Also called

ape-hand (ap hand), n. In pathol., a deformity of the hand in which it resembles the fore paw of the ape in consequence of atrophy of the

muscles of the thumb.

apeiry (a-pi'ri), n. [Gr. ἀπειρία, the boundlessness of space, < ἀπειρος, boundless.] In geom. topics, a number associated with a place of three or more dimensions and indicating how many places it contains for unbounded solid bodies that have no room within it to shrink to many places it contains for unnounned some bodies that have no room within it to shrink to nothing. The apeiry of real space may be assumed to be either 0 or 1. If space, though infinite, be limited, so that there is no geometrical inpossibility in the expansion of a small homogeneous mass without any union of parts that had been separate, so as to fill all space, the apeiry is 0: but if that substrate fluid which the vortexatom theory supposes to fill all space geometrically could not, even if it were compressible, be so deformed as to leave any part of space empty, then the apeiry is at least 1; and while it is easy to imagine that even after a first rupture of that fluid there would still be a geometrical impossibility in its shrinking indefinitely toward occupying no solid space, which would make the apeiry of space greater than 1, there is nothing in experience to warrant or make pertinent such a suggestion.

Apoltes (a-pel'tēz), n. [NL., < Gr. ά- priv. + πέλτη, a shield.] A genus of American sticklebacks of the family Gasterosteidæ, having the pelvic shield divided and the skin naked.

apena (a-pē'nā), n. [NL., < Gr. ἀπήνη.] In Gr. antiq., a wagon or chariot, four-wheeled or two-wheeled, sometimes used for racing. The vehicle sometimes had a tilt or cover with win-

wheeled, sometimes used for racing. The vehicle sometimes had a tilt or cover with windows at the sides.

apertometry (ap-ér-tom'e-tri), n. [Irreg. < L. apertus, open, + Gr. -μετρία, < μέτρον, measure.] In optics, the art of measuring the effective or equivalent apertures of a lens or system of lenses. Jour. Roy. Micros. Soc., Feb., 1903,

aperturate (a-per'tū-rāt), a. [NL. aperturatus, < L. aperture, aperture.] Having apertures; specifically, having reference to that division of the brachiopod genus Spirifer, termed the Aperturati, which is typified by the species S. aperturatus and characterized by the plications on the fold and sinus of the valves.

aperture, n.—Absolute aperture, the actual or measured size of the aperture of a diaphragm, generally stated in giving its diameter: used in contradistinction to effective aperture.— Pedal aperture, the opening in the mantle of mollusks through which the foot is protruded.—Relative aperture of a lens, the radius of the lens.

Apetala (a-pet'a-lä), n. pl. [Gr. á-priv. + $\pi \ell$ - $\tau a \lambda o v$, a leaf.] In some classifications, a section or division of the echinoids belonging to the family *Spatangidæ*, characterized by apetalous ambulacra crossed by fascioles.

apetalous, a. 2. In the echinoids or sea-urchins, having one of the five ambulacral rays more or less imperfectly developed.

apex, n. 1. (f) In projective geom., the point determined by 3 planes.—3. pl. The abacusmarks. Boethius. The apices of Gerbert's abacus are symbols for the digits from 1 to 9, but without the zero.

In the tenth and eleventh centuries there appeared a large number of authors, belonging chiefly to the clergy, who wrote on abacus-reckoning with apices but without the zero and without the Hindu-Arab nethods.

Beman and Smith, Hist. of Math., p. 89.

aphakial (a-fā'ki-al), a. Same as aphacic.
Aphaneura (af-a-nū'rā), n. pl. [NL., irreg. < Gr. ἀφανής, unseen, + νεῦρον, sinew (nerve).]
A family of Oligochæta, containing the single fresh-water genus Ælosoma. It is peculiar in having the central nervous system reduced to the central ganglia, which, moreover, retain the embryonic character of connection with the epidermis. The worms are small and their transparent bodies contain droplets of brightly

colored oil.

aphanisis (a-fan'i-sis), n. [NL., ⟨Gr. ἀφάνισις, abolition, suppression, ⟨άφανίζειν, abolish, suppress, hide, ⟨άφανής, unseen, invisible.] In bot., the suppression or abortion of parts required by morphological analogy.

aphanophyre (a-fan'ō-fir), n. [aphan(itic) + -o- + (por)phyr(y).] In petrog., a porphyry with aphanitic ground-mass: analogous to aranophyre. melaphyre. telsophyre. etc.

granophyre, melaphyre, felsophyre, etc.

aphasia, n.—Associative aphasia, aphasia due to lesion in the association-area of the brain intercepting one or more of the pathways of impulses between the various centers.—Auditory aphasia, aphasia due to lesion in the hearing-center of the brain, the patient having lost the ability to understand spoken words; word-deafness.—Motor aphasia, loss of power to employ

words in phrases, although the ability to read, write, and understand spoken words is unimpaired.—Optic aphasia, a form of aphasia in which the patient is unable to recall the name of an object when he sees it.—Visual aphasia, a form of aphasia in which the patient is unable to appreciate the significance of printed or written words, although he sees the words distinctly.—Wernicke's aphasia of conduction. Same as word-deafness.

Aphelandra (af-e-lan'dra), n. [NL.] A genus containing about 60 species of the family Acanthaceæ, evergreen, tropical, American shrubs grown in hothouses for the fine foliage and showy 4-sided terminal spikes of red or yellow gaudy-bracted flowers. The species most common in trade are A. aurantiaca (including A. Ræzlii), A. squarrosa (chrysops), and A. Fasci-

Aphelops (af'e-lops), n. [Gr. ἀφελής, level, smooth, + ἀψ, eye, face.] In Cope's classification of the extinct rhinoceroses, a group, represented chiefly by North American species, having but three digits on the manus. These are considered as belonging to the accrathine or hornless di-vision of the genus. They occur in the Tertiary beds.

aphengoscope (a-feng'gō-skōp), n. Same as

aphengescope.

aphen

aphidein, aphideine (a-fid'ē-in), n. [aphis (aphid-) + -e + in².] The red coloring matter of the Aphididæ, a composite substance which may be separated into three constituents called by Sorby aphidiluteine, aphidiluteoline, and aphidirhodeine.

Aphidiides (af-i-di'i-dez), n. pl. [NL., prop. Aphidiidæ or Aphidiadæ, (Aphidius.] A group of hymenopterous parasites, of the family Braconidæ, typified by the genus Aphidius.

Aphidinas (af-i-di-i'nē), n. pl. [NL., < Aphidius + -inæ.] A subfamily of the hymenopterous family Braconidæ. All of its members are parasitic upon aphides, and they constitute one of the principal checks to the multiplication of these very injurious insects.

Aphidius (a-fid'i-us), n. [NL. (Nees, 1818), NL. aphis (aphid-).] An important genus of hymenopterous insects, of the family Bra-conidæ, typical of the subfamily Aphidiinæ or Aphidiides, comprising a host of minute spe-cies, all of which are parasitic on aphides.

aphidoid (af'i-doid), a. [NL. aphis (aphid-) + Belonging to or resembling the family Aphididæ.

aphidologist (af-i-dol'ō-jist), n. One learned in the study of the Aphididæ. One who is

aphidophagous (af-i-dof'a-gus), a. Same as aphidiphagous.

aphikomon, aphikomen. See *afikomen.

aphis, n.—Black or brown aphis, an aphis, Rhopalosiphum violæ, which injures violets, especially those in greenhouses.—Corn aphis. See *corn-aphis.—Cornroot aphis, an American aphidid, Aphis maidi-radicis, found commonly on the roots of Indian corn.—Peach aphis. See *peach-aphis.

aphis-fly (a'fis-flī), n. Any species of any one of numerous genera of flies of the family Syrphidæ, the larvæ of which prey upon

aphis-wolf (a'fis-wulf), n. The larva of any species of *Hemerobius*, as distinguished from the aphis-lions of the genus *Chrysopa*.

Aphlebia (a-fle bi-ä), n. [NL. (Presl, 1838), \langle Gr. a- priv. + $\phi \lambda \dot{\psi} \psi (\phi \lambda \epsilon \beta$ -), vein.] A supposed genus of fossil plants with lobed, flabelposed genus of fossil plants with lobed, flabel-lately pinnatifid, or pinnate fronds destitute of veins, found attached to or apparently climbing over other plants, especially Pecop-teris, Neuropteris, and Sphenopteris. There is now little doubt that they are stipellar outgrowths or adven-titious pinns of these plants. See Rhacophyllum and Schizopteris.

aphodal (af'ō-dal), a. [aphodus + -all.] Pertaining to an aphodus; possessing aphodi: as, the aphodal type of canal system in sponges.

aphodus (af'ō-dus), n.; pl. aphodi (-di). [NL., ⟨Gr. ἀφούος, a going out, ⟨από, off, + ὁδός, a way.] In certain sponges, a small canal leading from a flagellated chamber to the excurrent canal.

aphonic (a-fon'ik), a. [Gr. a-priv. + phonic.]
1. Having no sound or pronunciation. N.E.D.
2. Having no voiced quality; not voiced.
Scripture, Elements of Experimental Phonetics, p. 443.

aphorisming (af'ō-riz-ming), p. a. Affecting the use of aphorisms in speaking and writing. *Milton*, Reform, II. 33. N.E.D.

aphorizer (af'ō-rī-zer), n. One who indulges in aphorisms in speaking and writing; an aphorist

Aphoruridæ (af -ō rū'ri-dē), n. pl. [NL., Aphorura (Gr. ἀφορος, not bearing, + οὐρά, tail) + -idæ.] A family of thysanurous insects, of the suborder Collembola, having no ventral spring below the abdomen. It is composed of very small soft-bodied insects which are not

very small sort-bound insects which are not uncommon, although seldom noticed.

aphotic (a-fō'tik), a. [Gr. ά-priv. + φōς, light, + -ic.] In phytogeog., without light: applied to the deep level in a body of water in which only non-assimilating organisms can exist.

Schimper (trans.), Plant Geog., p. 782.

aphotometric (a - fō - tō - met rik), a. [Gr. a-priv. + φως (φωτ-), light, + μέτρον, measure.]

Noting zoöspores which not only take up a

Noting zoöspores which not only take up a definite position with regard to the direction of light-rays (phototactic), but which invariably present the same end to the light.

aphototropic (a-fō-tō-trop'ik), a. [Gr. \dot{a} - priv. $+ \dot{\phi}\ddot{\phi}_{1}$ ($\dot{\phi}\dot{\phi}\ddot{\phi}$ -), light, $+ \tau\rho\dot{\phi}\pi\phi_{1}$, a turning.] Pertaining to or exhibiting the absence of growth with reference to light; not phototropic.

The direct tropic effect of light is greatest in the green rays, absent in the blue, and reversed in the red. The effect is modified by the absorbing or scattering character of the background, and by the age of the animal. At the moment of hatching, Convoluta is aphototropic.

Nature, July 9, 1903, p. 237.

anhrasia (a-frā'zi-ā). n. [NL., $\langle Gr. \dot{a}$ - priv.

aphrasia (a-frā'zi-ṣ), n. [NL., < Gr. à- priv. + φράσις, speech: see phrase.] In pathol., loss, through disease, of the power of expressing one's self in formed sentences.

one's self in formed sentences.

aphrodescin (af-rō-des'in), n. [Gr. ἀφρώδης, foamy, + L. æsc(ulus), horse-chestnut, + -in².]

A glucoside, C₅₂H₈₂O₂₃, occurring in the cotyledons of the horse-chestnut. It forms an amorphous powder easily soluble in water.

aphrodisia² (af-rō-diz'i-8), n. [NL., < Gr. λφρούσιος: see Aphrodisia¹.]

1. Eroticism.

-2. The sexual act.

A phroditaum (af'rō-di-tō'um), n. [NL., < Gr. compound, C₁₅H₁₀O₅, formed by the hydrolysis of apiin. It crystal-lizes in bright-yellow needles.

Aphrodite, Aphrodite.] In Gr. antiq., a temple, shrine, or precinct sacred to Aphrodite. There was such a temple at Cnidos, which contained the famous statue of the divinity by

Praxiteles. Aphrothoraca (af'rō-thō-rā'kä), n. pl. [Gr. \dot{a} φρός, foam, $+\theta \dot{\omega} \rho a \xi$, breast.] Same as $\star Aphrothoracida$.

Aphrothoracida (af-rō-thō-ras'i-dā), n. pl. [NL., ζ Gr. ἀφρός, foam, + θώραξ, breast, +-ida.] An order of Heliozoa having no skeleton, but with the power of amœboid motion and with plastic or stiff pseudopodia, the latter possessing axial filaments. It includes the genera Vampyrella, Nuclearia, Myxastrum, Actinophrys, Actinosphærium, and others.

aphtha, n.—Aphthæ tropicæ, a digestive disorder, accompanied by an aphthous cruption, occurring in tropical regions.—Bednar's aphthæ, an eruption of yellowish spots on the nucous membrane of the hard palate in

Aphthartodocetic (af-thär'tō-dō-sē'tik), a. Of or pertaining to the Aphthartodocetæ or their teachings. See Aphthartodocetæ.

aphthite (af'thit), n. An alloy composed of 800 parts of copper, 25 of platinum, 10 of tungsten, and 170 of gold. Thorpe, Dict. Applied Chem., I. 189.

aphthongal (af'thong-al), a. [aphthong + -al.]
Of the nature of an aphthong; written but not pronounced; mute.

aphthongia (af-thong'gi-ä), n. [Gr. ἀφθογγος, voiceless, < ά- priv. + φθέγγειν, speak.] In pathol., spasmodic contraction of the muscles supplied by the hypoglossal nerve, resulting

Aphyllites (a-fi-li'tēz), n. [NL., < Gr. à- priv. + φιλλον, a leaf, + -ites.] See *Agoniatites. aphyric (a-fir'ik), a. [Gr. à- priv. + (por)-phyric.] Non-porphyritic: a term applied to an igneous rock which does not possess the por-

Aplacese (ā-pi-ā'sē-ē), n. pl. [NL. (Lindley, 1836), < Apium + -acese.] A family of dicotyledonous, choripetalous plants of the order Apiales, the parsley, carrot, or celery family, based on the genus Apium as the type. See Umbelliferæ and *Apium.

apiaceous (ā-pi-ā'shius), a. [NL. Apiaceæ + -ous.] Belouging to the Apiaceæ; umbellifer-

a piacere (ä pi-ä-chā're). [It., 'at pleasure': see pleasure.] In music, same as ad libitum.

Apiales (ā-pi-ā'lēz), n. pl. [NL. (Ward, 1905),

Apium + -ales.] An order of dicotyledon-

ous, choripetalous plants embracing the families Apiaceæ, Araliaceæ, and Cornaceæ, and characterized chiefly by having flowers in um-See Umbellales.

characterized chieny by having nowers in umbels. See Umbellales.

apicad (ap'i-kad), adv. [L. apex, apex, + ad, toward.] Toward the apex: introduced by Hyatt in the terminology of the cephalopod shell, and used to express the relation of parts to the apex. Zittel (trans.), Textbook of Paleon., I. 574.

apical, α.—Apical axis, in diatoms, the line through the center of the pervalvar axis in the direction of the ruphe.—Apical body. Same as *acrosome.—Apical cone, the growing point.—Apical growth, growth from the apex which lengthens the axis.—Apical growth, from the apex which lengthens the axis.—Apical organ. Same as *apical plate.—Apical plane, in diatoms, the plane perpendicular to the valvar plane passing through the pervalvar and apical axis.—Apical plasm, the idioplasm to which the growth of a new shoot in a plant is due according to Weismann's doctrine of germ-plasm.—Apical plate, a thickening in the anterior end of a trochosphere or larval stage of certain invertebrates which is the nerve-center of the larva.—Apical system, in the echinoids or sea-urchins, the system of plates at the summit of the test or corona. Abocalled the dorsocentral system.

apicasm (ap''i-kazm), n. [Gr. aπείκασμα, a copy,

apicasm (ap'i-kazm), n. [Gr. ἀπείκασμα, a copy, ζ ἀπεικάζειν, form from a model, copy, ζ ἀπό, from, + εἰκάζειν, make like to, represent, ζ εἰκών, likeness, image.] A sign whose significance is due to characters which might conceivably equally belong to it although the object it represents had never existed; a copy

or analogue; an icon. C. S. Peirce.

apicasy (a-pik'a-si), n. [Gr. ἀπεικασία, representation by a copy or analogue.] Representation in an apicasm. See *apicasm.

apicular (a-pik'ū-lär), a. [NL. apiculus + -ar.]

In bot., situated or occurring at the apex: as, anicular debiseance

apikoros (8-pi-kō'ros), n.; pl. apikorsim (8-pi-kōr'sēm). [Gr. Ἐπίκουρος, Epicurus: see epicure. The word has been referred to an Aram. source. pakar, be free, break through.] In Jewish use, one who is unsound in belief or lax in the observance of religion or ceremony; one who is irreverent to rabbis; a

skeptic or heretic. skeptic or neretic.

apio (ä'pē-ō), n. [A colonial use of Sp. apio, celery, < L. apium, parsley.] A biennial, umbelliferous plant, Arracacia Arracacha, a native of the Andes of northern South America.

tive of the Andes of northern South America. Its large, fleshy yellow roots contain from 20 to 22 per cent. It starch, and from the expressed juice of the root alcohol is made. See arracacha. Aniocera. (ap-i-os'e-rā), n. [NL. (Westwood, 1835), $\langle \delta \pi \iota \iota o \rangle$, distart, $+ \kappa \ell \rho a \rangle$, horn.] A genus of bombylioid Diptera typical of the family Apioceridæ. A. haruspex inhabits the Yoscarifa willow.

Apioceridæ (ap'i-ō-se'ri-dē), n. pl. [NL., < Apiocera + -idæ.] A family of brachycerous Diptera, of the superfamily Bombylioidea, having the wings provided with five posterior cells. They are large and slender files somewhat resembling the robber-files, and the North American species all inhabit the western portions of the continent.

apioid, n. 2. A solid of revolution shaped something like a pear: a form assumed by a rotating liquid spheroid when the speed be-comes too great for the persistence of the ellipsoid which followed the spheroid as the speed increased.

speed increased.

apioidal (ap-i-oi'dal), a. Having an incipient dumb-bell form resembling the apioid. Know-ledge, Nov., 1903, p. 253.

apiol, n. 2. In med. and phar., the green li-

apiol, n. 2. In med. and phar., the green arquid alcoholic extract of parsley-seeds used as an emmenagogue and antiperiodic.

apiolic (ap-i-ol'ik), a. [apiol (f) + -ic.]

Noting an acid, CH₂:O₂:C₆H(OCH₃)₂CO₂H, formed by the oxidation of apiol. It consists of needles which melt at 175° C.

apione (ap'i-ōn), n. [api(in) + -one.] A compound, CH₂:O₂:C₆H₂(OCH₃)₂, formed by heating apiolic acid with dilute sulphuric acid. It

crystallizes in needles which melt at 79° C.

apionic (ap-i-on'ik), a. [apione + -ic.] Noting an acid, C₁₄H₁₂O₆ or C₁₄H₁₀O₆, formed by the oxidation of isapiol. It consists of small needles which melt with decomposition

Apionichthys (ap'i-ō-nik'this), n. [NL., $\langle (1) \rangle$ Gr. $\dot{\alpha}\pi\dot{\omega}\nu$, not fat ($\dot{\zeta}$ $\dot{\alpha}$ - priv. + $\pi\dot{\omega}\nu$, fat), +

 $i\chi\theta i\varsigma$, fish.] A genus of small soles or tongue-fishes of the family Soleidæ, found in South America.

Apiosoma (ap'i-ō-sō'mā), n. [NL., ⟨Gr. ἀπιον, pear, + σῶμα, body.] A genus of amœboid organisms found in the red corpuscles of the blood of cattle affected by Texas fever, the infection of which is carried by ticks: a synonym of *Piroplasma.

nym or *Piropusmu: Apiosporium (ap'i-ō-spō'ri-um), n. [NL. (Kunze, 1817), \langle Gr. $\delta\pi\omega\nu$, pear. $+\sigma\pi\omega\rho$, spore.] A genus of fungi of the order of Perisporiales, having spherical perithecia, and asci containing eight brown spores with transverse Septa. Many of the described species are known only in their conidial forms, which grow on leaves and branches, where the honeydew of plant-lice is present, causing what is called sooty mold.

apiri (ë-pë'rë), n. See *aalii. Apis¹, n. 2. A small southern constellation situated between the Cross and the Chameleon. Same as Musca.

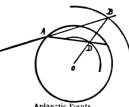
apism (āp'izm), n. [ape + -ism.] The practice of aping; mimicry. Carlyle, Past and Present.

apiton(ä-pē-tōn'), n.[Philippine Sp., < Bisayan upitong, the resin of the tree 'dragon's-blood.']
In the Philippine Islands, a large forest-tree, Dipterocarpus grandiflorus, which yields a finegrained wood of a grayish or greenish-gray color, used in construction and for the planking of boats. Like many of its congeners, this tree yields an eleoresin, which, however, is inferior to that of the panae or malapaho (Dipterocarpus vernicifiuus). See Dipterocarpus and *panaeo.

Apium (ā'pi-um), n. [NL. (Linnæus, 1753, adopted from Tournefort, 1700), < L. apium, the name of parsley and related plants: see ache2.] A genus of dicotyledonous plants, type of the family Apiaceæ. They are erect or prostrate glabrous herbs with compound leaves and umbels of white flowers. They are distinguished by the laterally flattened fruit and by the solitary oil-tubes in the intervals between the usually prominent ribs of the carpels. The genus includes about 20 species, natives of the eastern hemisphere, with the exception of A. Ammi, which occurs from North Carolina to Florida and Mexico and extends into South America. Two or three introduced species occur locally in the eastern United States and in California. For A. graveolens see celery, marsh-parsicy, 1, and smallage. apjohnite (ap'jon-īt), n. [Named after James Apjohn, an English chemist, who first described it.] A manganese alum occurring in silky white fibrous masses and also in crusts. Aplacophora (ap-la-kof'ō-rä), n. pl. [NL., A genus of dicotyledonous plants, type of the

Aplacophora (ap-la-kof' \hat{o} -ra), n. pl. [NL., $\langle Gr. \hat{a}$ -priv. + $Gr. \hat{\pi}\lambda \hat{a}\xi$ ($\pi\lambda a\kappa$ -), a flat piece or part, + $\phi opo c$, $\langle \phi \hat{e} \rho e \nu v$, bear.] A suborder of Amphineura, having the body vermiform, foot absent or merely a groove, and the cuticle more or less covered with spicules. It includes the families Neomentidæ and Chætodermatidæ. Same as Solenogastres. Compare Polyplaconhora.

aplanat (ap'la-nat), n. [G. aplanat: see aplanatic.] A system of lenses invented by Adolph Steinheil, in 1866, for use in photography, consisting of a biconvex crown-glass



Adolph Steinheil, in 1866, for use in photography, consisting of a biconvex crown-glass lens placed between two concavo-convex lenses of flint-glass. The invention of these objectives was a great improvement in photography, since before that time no objective gave a wide view-field undistorted and with sufficient illumination.—Group aplanat, an aplanat of large aperture with the members at a moderately great distance, effecting high illumination. Aplanat upon any straight line passing through the center of a sphere, which serve to locate the path of a refracted ray within the sphere. They are situated at distances n r and if the sphere and n is its index of refraction. Let a ray of light meet the surface of the sphere and n is its index of refraction. Let a ray of light meet the surface of the sphere and n is its index of refraction. Let a ray of light meet the surface of the sphere at A and late in the sphere and n is its index of refraction. The line AD is the path of the refracted ray within the sphere, and the points B and D are aplanatic points.—Aplanatic surface, in optics, a surface from every point of which the sum of the optical paths to two given points, with reference to which the surface is defined, is constant.—Aplanatic system, in optics, a system of lenses free from aberration for two points upon the axis called the aplanatic points.

aplanospore (a-plan'o-spor), n. [Gr. απλανής, not wan lering, fixed, ⟨a-priv. + πλάνος, wandering, + σπορά, spore.] Same as hypnospore-see *akinete.

aplasmic
aplasmic (a-plaz'mik), a. [Gr. à- priv. +
πλάσμα: see plasma.] Containing little or no
protoplasm, sarcoplasm, or other form of
plasma. Buck, Med. Handbook, III. 269.
aplastic, a. 2. Not molded, formed, or developed; imperfectly developed: as, aplastic
organs. Buck, Med. Handbook, I. 140.
aplitic (ap-lit'ik), a. See *haplitic.
Aplocheilus (ap-lō-ki'lus), n. [NL., prop.
*Haplochilus, ⟨ Gr. ἀπλόος, single, + χείλος,
lip.] A genus of top-minnows of the family
Pœcilidæ, found mainly in India.
Aplocæla (ap-lō-sē'lā), n. pl. [NL., prop.
Haplocæla, ⟨ āπλόος, single, + κοίλου, a hollow.]
Same as *Nemertini. Blanchard.
Aplodinotins, Aplodinotus. See *Haplodinotinæ, Haplodinotus.

ting, Haplodinotus.

tine, Haplodinotus.

Aplodontidæ (ap-lō-don'ti-dē), n. pl. The first published form of Haplodontidæ.

Aplysioldea (ap-li-si-oid'ē-ā), n. pl. [NL., < Aplysia + -oidea.] A group of tectibranchiate gastropods of the order Opisthobranchiata, consisting of the family Aplysidæ. The other subdivisions of the order are Bulloidea, Pleurobranchoidea, and Siphonarnoidea.

aplysionprupurin (ap-lis'i-ō-pèr'pū-rin). n.

aea, and sipnonarroadea.

aplysiopurpurin (ap-lis'i-ō-per'pū-rin), n.

[Aplysia (see def.) + purpurin.] A purple
pigment found in the secretion of the dermal

glands of Aplysia. pnea, n. See apnæa.

apnes, n. See apnea.

apneustic (ap-nūs'tik), a. [Gr. ἀπνευστος, not blown through, ⟨ ά- priv. + *πνευστός, ⟨ πνεῖν, breathe.] In entom., having a tracheal system which is closed, that is, without stigmata or spiracles: or if these are present they are functionless. The apneustic system is found only in certain aquatic or parasitic larve in which the blood is oxygenated through tracheal gills or through a very delicate general body-integument. A. S. Packard, Textbook of Entom., p. 440.

apo-. In chem., this prefix is sometimes used to indicate production 'from' the particular source specified, as apomorphia, made or prepared from morphia by chemical change. In petrog., it is used with the name of an igneous rock to indicate that the rock has been altered from an original glassy state to a more or less completely crystalline condition: as, apobeidian, aporhyolite, apoandenite, etc. These devitrified rocks are commonly of cryptocrystalline or microcrystalline texture and exhibit traces of perlitic or other textures of the original glass. Bascom, 1893.

apoatropin (ap-o-at'rō-pin), n. [apo-+ Atropa

1853.

apoatropin (ap-o-at'rō-pin), n. [apo- + Atropa + $-in^2$.] A crystalline alkaloid, $C_{17}H_{21}NO_{2}$, formed in the roots of Atropa Belladonna, and also prepared by treating atropin with nitric acid. It melts at 60° C.

apobiosis (ap-ō-bī'ō-sis), n. [Gr. $\dot{a}\pi o \beta i \omega \sigma \iota_{\zeta}$, departure from life, $\dot{\zeta} \dot{a}\pi o \dot{\beta} \dot{u} \dot{\sigma} \dot{\nu}_{\zeta}$, departure from life, $\dot{\zeta} \dot{a}\pi o \dot{\beta} \dot{u} \dot{\sigma} \dot{\nu}_{\zeta}$, depart from life, + $\dot{a}\pi \dot{\sigma}$, away, + $\dot{\beta} \dot{\iota} \dot{\sigma} \dot{\zeta}$, life.] Death as a physiologic fact.

apocalyps, n. A simplified spelling of apoca-

kypse.

apocarp (ap'ō-kārp) n. [Gr. ἀπό, from, + καρπός, fruit.] In bot., a fruit with several separate apodal, a. H. n. An amphibian of the order carpels. Jackson, Glossary.

Apoda; a cæcilian. Encyc. Brit., XXV. 383.

[Rare.]

carpels. Jackson, Glossary.

apocarpy (ap'ō-kār-pi), n. In bot., the character of being apocarpous.

apocatastatic (ap'ō-kat-a-stat'ik), a. Of, pertaining to, or of the nature of apocatastasis or restoration.

apocenter (ap'ō-sen'ter), n. [Gr. $\dot{a}\pi\delta$, from, + $\kappa \dot{e}\nu r\rho o\nu$, center.] 1. In the orbit of a heavenly body, the point most distant from the body or point around which it revolves. Science, Feb. 7, 1902, p. 221.—2. In biol., an organism or organ which may be regarded as a specialor divergent descendant from a more primitive or less specialized organism or organ. apocentric (ap-ō-sen'trik), a. [Gr. ἀπό, from, + κέντρον, center.] 1. Of or pertaining to an apocenter, in either sense. Encyc. Brit., XXVIII. 343.—2. Departing more or less from the primitive or average type; specifically, in ornith., departing from the primitive type of

Markedly apocentric though they may be in the matter of their intestinal coils. Nature, July 8, 1902, p. 235.

apocentrically (ap-ō-sen'tri-kal-i), adv. In an apocentric manner, or the manner that is

characteristic of apocentricity. Trans. Linnean Soc., London, Oct., 1901, p. 204.

apocentricity (ap'ō-sen-tris'i-ti), n. [*apocentric + -ity.] The property of being apocentric or of pertaining to an apocenter.

It is obvious that the mere apocentricity of a character can be no guide to the affinities of its possessor.

Encyc. Brit., XXVIII. 343.

Multiradial apocentricity, in ornith., adaptive modifications of the intestine.—Pseudocentric apocentricity, in ornith., slight departure from the primitive intes-

tinal type.—Uniradial apocentricity, in *ornith.*, complex structural variation in the intestinal loops, not due to any adaptive cause.

apocentron, apocentrum (ap-ō-sen'tron, -trum), n.; pl. apocentra (-trä). [NL.: see *apocenter.] Same as *apocenter, 1.

Apoceras (a-pos'e-ras), n. [NL. (Coville, 1905), (Gr. $a\pi b$, away from, $+\kappa \epsilon \rho a \epsilon$, horn.] A genus of trees belonging to the Rutaceæ and characterized by five horn-like diverging ovaries, four of which disappear in the fruit. It is improp-Ît is improperly called Pentaceras by many authors. See

Pentaceras.

Apocheilichthys (ap'ō-kī-lik'this), n. [NL., Gr. $\dot{\alpha}\pi\dot{\alpha}$, off, $+\chi\epsilon\dot{i}\lambda\sigma$, lip, $+i\chi\dot{\theta}i$, fish.] A genus of very small top-minnows of the family Paciliidae, found in the rice-ditches of Japan.

apochromat (ap'ō-krō-mat), n. [apochromatic.]
A lens system, designed by Abbe, consisting of a combination of ten lenses with homogeneous immersion. It is achromatic for three colors, and therefore free from secondary spectra, and aplanatic for two colors.

a poco (ä pō'kō). [It., 'by little': see pococurante.] Gradually: used to qualify several terms for musical style or expression: as, a poco più lento, gradually slower; a poco più mosso, gradually faster.

An alkaloid, C₁₈H₁₀NO₂, prepared by heating codeine hydrochlorid with a concentrated solution of zinc chlorid. Both the base and its salts are amorphous.

apocopation (a-pok-ō-pā'shon), n. [See apocope.] The dropping or omission of a letter or syllable from the end of a word; abbreviation

by apocope.

apocrenate (ap- \bar{o} -kren' \bar{a} t), n. [apocren(ic) + -ate².] Any salt of apocrenic acid, $C_{21}H_{12}O_{12}$. Some of the salts are found in the humus of soil, in sinter deposits, and, sometimes, in ferrugineous waters.

Apocrita (a-pok'ri-tä), n. pl. [NL., < Gr. aπόκριτος, separated, < αποκρίνειν, separate.] A suborder of insects of the order Hymenoptera, having the abdomen connected with the thorax by a deep constriction. It comprises the vast majority of the hymenopterous in-sects, including the three great series Para-sitica, Tubulifera, and Aculeata. Brauer.

apocryfal, a. A simplified spelling of apocryphal.

apocryph (ap'o-krif), n. An apocryphal writing.

apocytial (ap-ō-sish'al), a. [NL. *apocytium, ζ Gr. ἀπό, from, + κὐτος, a hollow (a cell).] Noting fungi and algæ, such as the Siphonales and Phycomycetes, which contain a num-

[kare.]

apodete (a-pod'ē-tē), n. [NL. apodetē, < Gr. aπό, off, + δετή, fagot, fem. of δετός, bound.

Cf. *anthodete and *syndete.] That region in a bunch of alcyonarian polyps where the zoöids are separate. Compare *syndete.

Apodichthys (ap-ō-dik'this), n. [NL., < Gr. āπους (āποδ-), without feet (allusion not apparent), + iχθύς, fish.] A genus of ribbonshaped blennies found on the coast of California.

Apodina (ap-ō-di'nä), n. pl. [NL., < Gr. ἀπους (ἀποὐ-), footless, + -ina.] A suborder or section of Gastrotricha, containing forms having no pedal appendages, as Dasydetes and Gossea. See *Euichthydina.

apoëmbryony (ap-ō-em'bri-on-i), n. [apo-+embryon+-y³.] Suppression of the embryostage, in which the oösphere gives rise immediately to the vascular members.

apogalacteum (ap'ō-ga-lak-tē'um), n.; pl. apo-galactea (-ä). [NL. *apogalactæum, < Gr. άπό, from, + γαλαξίας (γαλακτ-), the Milky Way, + -æum, as in apogæum, apogee.] The point of maximum distance from the Milky Way in the orbit of a star supposed to be revolving in an orbit within the galactic ring. Amer. Jour. Sci., Aug., 1903, pp. 135, 136.

apogalactic (ap'ō-ga-lak'tik), a. mum distance from the Galaxy. See *apogalacteum.

apogamous, a. 2. In biol., illustrative of, pertaining to, or due to apogamy, or the substitution of vegetative for sexual reproduction. apogamy, n. 2. Mating, pairing, or marriage

atrandom, or without conscious or unconscious preference; pangamy.

Indiscriminate isolation allows free interbreeding of all varieties, or apogamy.

Buck, Med. Handbook, IV. 33.

apogeny (a-poj'e-ni), n. [NL. *apogenia, < Gr. aπό, away, + -γενεια, < -γενης, -producing.] Sexual impotence, both male and female organs having lost their functions.

having lost their functions.

apoglucic (ap-ō-glö'sik), a. [apo-+ gluc(ose) + -ic.] Derived from glucose.—Apoglucic acid, an acid, C₁₈H₁₀O₇, found in cane-juice and formed by the action of an alkali on glucose.

apogyny (a-poj'i-ni), n. [NL. *apogynia, < Gr. ano, away, + γυνή, female, + -y³.] Loss of reproductive power in the female organs.

apohyal, n. 2. In ichth., the basihyal bone. Starks, Synonymy of the Fish Skeleton, p. 517.

apoid (an'oid), a. Of or belonging to bees of

apoid (ap'oid), a. Of or belonging to bees of the typical family Apidæ.

Apoidea (a-poi'de a), n. pl. [NL. (Ashmead, 1899), < Apis + -oidea.] The true bees, considered as a superfamily and including the families Apidæ, Bombidæ, Anthophoridæ, No-madidæ, Ceratinidæ, Xylocopidæ, Megachilidæ, Stelidæ, Andrenidæ, Colletidæ, and Prosopidæ.

apoikogenic (a-poi-kō-jen'ik), a. [Irreg. < Gr. ἀποικος, absent from home, + -γενης, -producing.] Concerning or pertaining to eggs which are abundantly supplied with food-yolk, and which at an early stage of development leave the folliele in which they were formed and pass into the cavity of the ovarian tube to complete their development: contrasted with *katoikogenic. Nat. Sci., Oct., 1896, p. 232. [Rare.] [Rare.]

apoise (a-poiz'), adv. [a³ + poise.] Poised; in a poised or balanced position. [Rare.] apolar, a. 2. In geom., having no determinate

polar.

apolarity (a-pō-lar'i-ti), n. [apolar+-ity.] In geom., the condition of being apolar.

apolaust (ap'ō-låst), n. [A back-formation from apolaustic.] 1. A pleasure-seeker.—2.

A student of apolaustic or esthetics.

apolausticism (ap-ō-lås'ti-sizm), n. [apolaustic+-ism.] The philosophy of taste or enjoyment: apolaustics

ment; apolaustics.

He was indeed only fervent in his apolausticism.

Aut Diabolus aut Nihil, p. 6 (1894).

apolegamic (ap-ō-lē-gam'ik), a. [Erroneously formed (Gr. ἀπολέγειν, pick out, + γάμος, marriage.] Pertaining to or characterized by the conscious and intentional selection of mates in pairing or marriage.—Apolegamic mating. See

Apollinaris (a-pol-i-nā'ris), n. See Apollinaris water, under water.

Apollo red. See *red1.

apollonicon (ap-o-lon'i-kon), n. [Apollo(n-) + icon, as in harmonicon.] A variety of orchestrion invented in 1800 by J. H. Völler of Hesse-Darmstadt, but first manufactured in 1828 in London. It was essentially a pipe-organ which could be played either mechanically by cylinders or, as it had six keyboards, by several players, each taking part of a concerted effect.

Apollonize (a-pol'on-īz), v. i.; pret. and pp. Apollonized, ppr. Apollonizing. [Gr. Απόλλων, Apollo, + -ize.] To act the Apollo, the god of the fine arts, music, literature, poetry, eloquence; hence, to speak or decide oracularly on these subjects. [Rare.] N. E. D. apolog, n. A simplified spelling of apologue. apologete (a-pol'o-jēt), n. One skilled in that branch of theology which has to do with the grounds and defense of the Christian faith. analysin (a-pol'i-sin). n. A yellowish-white

apolysin (a-pol'i-sin), n. A yellowish-white crystalline powder, differing from phenacetin in that it contains the citric acid radical in place of the acetic. It is antipyretic and ano-

Apomotis (ap-ō-mō'tis), n. [NL.] A genus of fresh-water sunfishes abounding in the Mississippi valley.

spip varies, n.—Giuteal aponeurosis. See *glu-leal.—Palmar aponeurosis. See *palmar.

Aponogeton (ap'ō-nō-jō'ton), n. [NL. (Linneus filius, 1781), \langle Gr., $\dot{a}\pi\sigma\nu\sigma_{c}$, without trouble (†), + Gr., $\gamma\epsilon\tau\omega\nu$, neighbor (as in Potamogeton).]

A genus of ornamental monocotyledonous relative the type and puly geome of the family plants, the type and only genus of the family Aponogetonaceæ. The species most frequent in cultivation is A. distachyon. See Ouviran-

Aponogetonaceæ (ap'ō-nō-jē-tō-nā'sē-ē), n. pl. [NL. (Engler, 1886), \(Aponogeton + -aceæ.]
A family of monocotyledonous plants of the

aponogetonaceous (ap'ō-nō-jē-tō-nā'shius), a. [Aponogetonaceæ + -ous.] In bot., belonging

[Aponogetonaceæ + -ous.] In bot., belonging to the family Aponogetonaceæ.

apophantic, a. II., n. The logical theory of the proposition. Sir W. Hamilton.

apophony (a-pof'ō-ni), n. [F. apophonie, < NL. apophonia, < Gr. άπδ, off, + φωνή, sound.]

Vowel-gradation; the vowel-differentiation of words known as ablaut (which see). N. and Q., 8th ser.. IX. 222.

annohyes (a-pof'i-sal), q. Pertaining to or

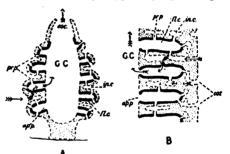
apophysal (a-pof'i-sal), a. Pertaining to or having the characters of an apophysis. Amer. Jour. Sci., 4th ser., XV. 280.

apophysis mamillaris, the olfactory bulb.—Cerebral apophysis, 8ee *genial2.

or of the nature of apoplexy; apoplectiform.

**Booplexy*, n.—Bulbar apoplexy*, hemorrhage into the substance of the pons Varolil.—Choroid apoplexy*, hemorrhage between the choroid and the retina.—Heat apoplexy*, sunstroke.—Hepatic apoplexy*, hemorrhage into the substance of the liver.—Nervous apoplexy*, the occurrence of symptoms of apoplexy without henorrhage or other injury of the brain.—Placental apoplexy*, hemorrhage into the substance of the placenta.—Pulmonary apoplexy*, an effusion of blood from the capillary vessels into the air-vesicles and intervening lung substance.—Serous apoplexy*, a condition in which symptoms of apoplexy are due to an effusion of serum into the ventricles of the brain.—Verminous apoplexy*, coma occurring as a reflex symptom of the presence of parasitic worms in the intestine.

apopyle (ap'ō-pīl)*, n. [Gr. a\pi\theta, off, + \pi\theta\eta, gate,] In the rhagon type of sponge, the open-



A Diagrams of the rhagon type of canal system. A, simple type, with separate radial tubes. B, more complex type, with radial tubes fused and thickened distally to form cortex and incurrent canals; a portion only of the wall is represented. ost, ostia; inc., incurrent canals; *pr.p., prosopyle; *pr.c., fagellated chamber; ap.p., apopyle; *pr.c., osculum; *C.C., gastral cavity. The arrows show the direction of the currents. The thick black line represents the gastral layer, and the dotted portion represents the dermal layer. (From Lankester's "Zoology.")

ing by which a flagellated chamber communi-

cates with the cloacal cavity.

aporetin (ap-0-re'tin), n. [Gr. ἀπό, from, + ρητίνη, resin.] One of the resinous substances remaining after the crystalline substances have been removed from rhubarb extract.

aporrhaoid (ap-ō-rā'oid), a. [Aporrhais + -oid.] Resembling the Aporrhaidæ.
 aporrhysa (ap-ō-rī'zā), n. pl. [NL., irreg. pl. based on Gr. ἀπόρρενοις, otherwise ἀπόρρενοις, a flowing off, 〈 ἀπορρεῖν, flow off, 〈 ἀπό. off, + peiv, flow.
 Cf. epirrhysa.] In Rauff's terrivoluments.

pēiv, flow. Cf. epirrhysa.] In Rauff's terminology of sponge morphology, the exhalant canals terminating on the cloacal surface.

aposematic (ap'ō-sō-mat'ik), a. [Gr. ἀπό, away, + σῆμα, mark: see sematic.] Of a nature to warn or alarm; serving to warn or alarm enemies: noting characteristics of organisms which, when displayed, effect this.

We often see the combination of cryptic and sematic methods, the animal being concealed until disturbed, when it instantly assumes an appsematic attitude.

Encyc. Brit., XXVII. 147.

Aposematic character, any characteristic of a dangerous, poisonous, or unpalatable organism which, when displayed, serves to warm or alarm an enemy; a warning character. The hood of the cobra, the rattle of the rattlesnake, and the large white tail of the skunk are familiar examples. — Aposematic coloring, in dangerous, poisonous, or unpalatable organisms, conspicuous colors which warn or alarm enemies; warning colors. apositic (ap-ō-sit'ik), a. [apositia] + -ic.] Causing apositia or loathing of food; tending to diminish appetite.

to diminish appetite.

aposorbic (ap- ϕ -sôr'bik), a. [Gr. $\dot{a}\pi \delta$, from, + (†) sorb(inose) + -ic.] Noting an acid, $C_0H_8O_7$, prepared by oxidizing sorbinose with nitric acid. It crystallizes in leaflets, is bibasic, and melts at 110° C.

order Naiadales, the lattice-leaf family, containing the genus Aponogeton only. See *Aponogeton and Ouvirandra.

aponogetonaceous (ap'ō-nō-jē-tō-nā'shius), a. [apostatic (ap-ō-stat'ik), a. [apostate + -ic.] Characterized by apostasy; apostate; backsliding. Golding. [Rare.] N. E. D. aponogetonaceæ + -ous.] In bot., belonging to the family Aponogetonaceæ.

apophantic, a. II. n. The logical theory of the proposition. Sir W. Hamilton.

apophony (a-pof'ō-ni), n. [F. apophonie, < NL. apostolic delegate, an ambassador or diplomatic agent' of second rank commissioned by the pope to a national church or to a government. — Apostoli method. See *morted. — Apostolic party. See apostolics, in Cyclowords known as ablaut (which see). N. and Q., 8th ser.. IX. 222. trophize

apostrophism (a-pos'trō-fizm), n. Apostrophic mode of address. Morning Star (London), Dec. 18, 1866. [Rare.] N. E. D. apotactical (ap-ō-tak'ti-kal), a. [Gr. ἀποτακτικοί, also ἀπότακτοι, certain heretics, ζάπότακτος,

set apart, ζάποτάσσειν, set apart, arrange, ζάπό, from, + τάσσειν, arrange.] Recreant. Bp. Hall,

apoplectoid (ap-ō-plek'toid), a. Resembling or of the nature of apoplexy, hemorrhage into the substance of the pons Varolii.—Choroid apoplexy, hemorrhage between the choroid and the retina.—Heat apoplexy, sunstroke.—Henatic apoplexy, hemorrhage into the substance between the choroid and the retina.—Heat apoplexy, sunstroke.—Henatic apoplexy, hemorrhage into the substance between the choroid and the retina.—Heat apoplexy, sunstroke.—Henatic apoplexy, hemorrhage into the substance of the pons Varolii.—Choroid apoplexy, hemorrhage into the substance of the pons Varolii.—Choroid apoplexy, hemorrhage into the substance of the pons Varolii.—Choroid apoplexy, hemorrhage into the substance of the pons Varolii.—Choroid apoplexy, hemorrhage into the substance of the pons Varolii.—Choroid apoplexy, hemorrhage into the substance of the pons Varolii.—Choroid apoplexy, hemorrhage into the substance of the pons Varolii.—Choroid apoplexy, hemorrhage into the substance of the pons Varolii.—Choroid apoplexy, hemorrhage into the substance of the pons Varolii.—Choroid apoplexy, hemorrhage into the substance of the pons Varolii.—Choroid apoplexy, hemorrhage into the pons Varolii.—Choroid apoplexy into the pons Varoliii.—Choroid apoplexy into the pons Varoliii.—Choroid apoplexy into

Apothecaries' measure. See measure.

apothegmatically (ap-ō-theg-mat'i-kal-i), adv.
In an apothegmatic manner; sententiously;

apotheose (a-poth'ē-ōz), v. t.; pret. and pp. apotheosed, ppr. apotheosing. [apotheosis.] To place or rank among the gods; apotheosize; exalt; glorify. [Rare.]

He must be apotheosed, or more than mortality or man-kind will permit, and so omnipresent. F. Philipps, Reg. Necess., p. 269.

a potiori (ā pō-shi-ō'rī or ä pō-ti-ō'rē). [L.] Literally, from the stronger or more impor-tant; hence, in logic, from the prevailing trend, or principal contents, of an argument or exposition.

apotype (ap'ō-tīp), n. One of a series of specimens upon which are based supplementary descriptions, giving additional details about some previously described species: proposed to take the place of *hypotype, which is used in another sense. Science, N. S., XXI, 900.

Appalachia (ap-a-lach'i-ä), n. [NL.] A continental area of Paleozoic time which occupied

in part the general position of the present Ap-

palachian region.

Appalachian, a. 2. In geol., specially noting an anticlinal fold, slightly overthrown so as to have one flank dipping more steeply than the other. See the extract.

other. See the extract.

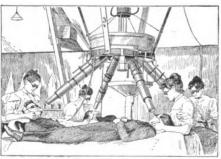
The folding in the rocks of the area is of three types: minute crinkling, small unsymmetrical wavy folds, and broad Appalachtan ones in which the adjustment appears to have taken place along the bedding.

Amer. Jour. Sci., Feb., 1904, p. 150.

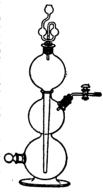
pears to have taken place along the bedding.

Amer. Jour. Sci., Feb., 1904, p. 150.

apparatus, n.—Arsenic apparatus of Fresenius and Babo, an apparatus for the reduction of arsenious sulphid by means of potassium cyanid in a current of carbon-dioxid gas, which excludes air. Arsenic appears as a mirror at the narrow exit-tube.—Buck's extension apparatus, an apparatus for making extension of the leg, in order to counteract muscular action and prevent displacement of the fragments in cases of fracture of the thigh-bone.—Carbonic-acid apparatus, an apparatus for the gravimetric estimation of carbonic dioxid in alkali. See alkalimetry. Various forms have been devised by Fresenius, Geissier, Mohr, Kipp, Schroetter, and others.—Clayton's apparatus, an apparatus for the generation of anhydrous sulphurous and sulphuric acids in the hold of a ship, for the purpose of disinfection and to kill the rata.—Elliott's apparatus, an apparatus for the rapid analysis of gaseous mixtures, such as illuminating gas. The sample is collected in the graduated eudiometer. It is then transferred to the laboratory-tube, where it is subjected to the action of a solvent. The residual gas is then returned to the graduated tube and the loss in volume measured.—Fall-O'Dwyer apparatus, an appliance for forcing air into the lungs through an intubation-tube by means of a bellows.—Finsen's apparatus, as system of lenses for concentrating the



Drawn from Buck's "Reference Handbook of the Medical Sciences.



violet rays of light, used in the light-treatment of inpus and other diseases. Presentus's drying apparatus, and own of drying oven. The temperature of the interior is canalysis apparatus, an apparatus of the new containing reasons are to the containing reasons are to see the containing reasons of a lever of sees whereby a sample measured volume contained in a graduated but the containing reasons, the effect of which is determined by jecting it to each test. The gas is collected over mercury, though in some cases water may serve.—Hofmann's apparatus, an apparatus of the combination of gases by volume. The one of the combination of gases by volume. The one of the combination of gases by volume. The one of the combination of gases by volume. The one of the combination of gases by volume. The one of the combination of gases by volume. The one of the combination of gases by volume. The one of the combination of gases by volume. The one of the combination of gases by volume. The one of the combination of gases by volume. The one of the combination of gases by volume. The one of the combination of gases by volume. The one of the combination of urea.—Hoffers apparatus, an apparatus of the combination of the combinati

according to the Bunsen method, by ascertaining the rate of effusion.—Schilling's blast apparatus a simple device for combining an aspirator and an air-blast, operated by ader-pressure.—Soxhlet's extraction of soluble constituents, as fat, with a minimum quantity of solvent, as ether. The solvent is boiled in the lower fask (see the fillustration), the vapor is condensed in the star-cooled spiral, and the liquid drops upon the substance contained in the central vessel, where it accumulates until it reaches the top of the siphon, when it runs into the lower fask. This operation is repeated until the extraction is complete. The extract is obtained by boiling off the solvent.—Squibbe's urea apparatus. See *urea.—Telesmatic apparatus. See *titme-sense.—Triple-effect apparatus. See *titme-sens

appareling (a-par'el-ing), n. Clothes; cloth-

Fishing and hunting the abundant waterfowl, as well as other game, contribute to the tribal subsistence, and during recent years part of the corn, beans, and peas is carried on horseback to Yuna, where it is bartered chiefly for appareting.

Smithsonian Rep., 1901, p. 72.

caneny for appareting. Smithsonian Rep., 1901, p. 72.
Apparent celestial latitude. See *latitude.— Apparent danger. See **afanger.— Apparent efficiency.— Apparent energy. Same as apparent **apower.— Apparent power. See **power!.— Apparent resistance. See **impedance.— Apparent solar day.

see *day!

apparition (ap-a-rish'on), v. t. To cause to to appear in phantom form. Mrs. Whitney, Sights and Insights, II. 468. [Rare.] N. E. D.

appassionato (ä-pä-si-ō-nä'tō), a. [It., < ML. ad- + passionatus, passionate.] Impassioned; emotional: in music, noting passages to be so rendered. rendered.

rendered.

appatriation (a-pā-tri-ā'shon), n. [L. ad, to, + patria, country, + -ation.] The assignment, as of a song or a saying, to the country or place where it originated. Athenæum, July 7, 1883.

appeal, v. i.—To appeal from the chair, to take exception to a decision of the chairman or presiding officer of a deliberative body, and ask the sense of the meeting or assembly in regard to it; to appeal to the house from a decision of the chair.

appeal, n.—Circuit court of appeals, a federal court of appellate jurisdiction established for the hearing of appeals from judgments, orders, or decrees of the various federal district and circuit courts throughout the United

states. appel, n. (b) A stroke on the opponent's foil or sword designed to notify him that the bout is to begin. (c) The stamping of the foot during ceremonial salutes prior to the bout. appel, n. See salute.

See salute.

appellatived (a-pel'a-tivd), p. a. Called; named. Bulwer, Disowned, i. [Rare.]
Appendages of the eye, the lacrymal apparatus, ocular muscles, eyelids, eyelashes, and eyelrows. — Appendages of the fetus, the umbilical cord, placenta, and membranes.—Appendages of the skin, the sweat and sebaceous glands, nails, and hair.—Appendages of the uterus. Same as *adnexa.—Auricular appendage. Same as appendix auriculæ (which see, under appendax).—Cseal appendage, vermicular appendage, the vermiform appendix.

appendant, a.—Appendant powers, those powers which the donee is authorized to exercise out of the estate limited to him, and which depend for their validity upon the estate which is in him. A life-estate limited to a man, with a power to grant leases in possession, is an example. Bouvier, Law Dict.

appendectomy (ap-en-dek'tō-mi), n. A short-

appendectomy (ap-en-dek'tō-mi), n. A short-ened form of *appendicectomy. Med. Record, July 11, 1903, p. 46.

2. Relating to an appendix, specifically to the vermiform appendix

appendicuis (a-pen-di-si'tis), n. [L. appendix (-dic-) + -itis.] In pathol., inflammation of the vermiform appendix (which see, under appendix). The disease occurs at all ages, but most commonly in young adults, especially young men. The apparently increased prevalence of the affection in late years is to be accounted for chiefly by greater skill in diagnosis. The exciting causes of inflammation of the appendix are digestive disturbances (especially intestinal indigestion attended with much flatulence), influenza, rheumatism, and blows on the abdomen; the presence of seeds in the appendix is not, contrary to the popular belief, a frequent cause of the disease. The inflammation may be acute or chronic. The most prominent symptoms of the acute form are pain of a colicky nature, usually beginning in the neighborhood of the umbilicus and later becoming localized in the right lower abdominal region; rigidity of the abdominal nuscles on the right side; and tenderness to pressure. The last, at the beginning, is nearly always most acute at "McBurney's point," which is situated about two inches from the anterior spinous process of the illium on a line joining this process with the umbilicus. Nausea and vomiting, prostration, fever, rapid pulse, constipation or more rarely diarrhea, and chills are other symptoms usually present in varying degrees. In chronic appendicitis, the most prominent manifestation is constant pain in the right illac region, which is aggravated by exertion or fatigue; but the condition may be seriously prejudicial to health in many other ways, while there is also the ever present danger of an acute appendicitis surgeons usually advise operations as soon as the disguossis is made. "Interval operations" are those in which the appendix is removed after the subsidence of an acute attack, so as to prevent a recurrence of the disease.— Chronic, recurrent, or relapsing appendicities, a low grade of inflammation of the vermiform appendix, continuing without marked symptoms, but interrupted from time to tim

appendiculocæcal (ap-en-dik'ū-lō-sē'kal). a. Relating to both the cæeum and the vermiform appendix. Lancet, Aug. 29, 1903, p. 600. appending (a-pen'ding), p. a. Attached; ap-

pendant.

pendant.

appending (a-pen'ding), n. Addition; an addition. Athenæum, April 27, 1895, p. 532.

Appendix cerebri, the pituitary body.

appendix (a-pen'diks), v. t. To add as an appendix. [Rare.] N. E. D.

apperception, n. 5. In Wundt's psychology, the process whereby a perception or idea attains to clearness in consciousness; also, the introspective contents of this process that is introspective contents of this process, that is, the clear idea itself and the changes resulting in consciousness from the induction of the attentive state.

Here we understand by apperception a psychological process in which, on the objective side, a certain contents becomes clear in consciousness and, on the subjective, certain feelings arise which, as referred to any given contents, we ordinarily term the state of 'attention.'

W. Wundt (trans.), Physiol. Psychol., I. 316.

Apperception center. See **center.* apperceptionism (ap-er-sep shon-izm), n. In psychol., the explanation and systematization of mental phenomena in terms not only of the on menusi phenomena in terms not only of the mental elements and their physiological conditions but also of the process of apperception. The word is usually applied, in current controversy, to the psychological attitude represented by Wundt's system, that is, to a specific form of voluntarism: contrasted with associationism.

But without returning to apperceptionism we can over-come the one-sidedness of associationism.

H. Münsterberg, Harvard Psychol. Stud., I. 644.

apperceptionist (ap-er-sep'shon-ist), n. An epistemologist who embraces apperceptionism.

The idealist's view is that of the 'apperceptionists.'

Jour. Philos., Psychol. and Sci. Methods, Aug. 18, 1904,

apperceptionistic (ap-ér-sep'shon-is'tik), a. In psychol., pertaining to or characterized by apperceptionism. H. Münsterberg, Harvard Psychol. Stud., I. 653. apperceptive, a. 2. In current psychol.: (a) characterized by clearness, or by the state of attention; (b) resulting from or pertaining to the psychological process of apperception.

In almost every moment of the waking life an apper.

the psychological process of approach.

In almost every moment of the waking life an apperachtic process is taking place. Whenever an object is attended to, the presentation of it is apperceived.

G. F. Stout, Anal. Psychol., II. 113.

We may distinguish intellectual processes from associations, on the purely psychological basis, as apperceptive connections of ideas.

W. Wundt (trans.), Human and Animal Psychol., p. 312.

specifically to the vermiform appendix.

appendicoctomy (a-pen-di-sek'tō-mi), n.

[NL. appendix (vermiformis) + Gr. ἐκτομή, excision.] Excision of the vermiform appendix.

Med. Record, March 28, 1903, p. 484.

appendicitis (a-pen-di-si'tis), n. [L. appendix apperceptive ginal, in peychophys., a premonitory signal to the observer to concentrate his attention on the coming impression.

appendicitis (a-pen-di-si'tis), n. [L. appendix apperceptively (ap'er-sep'tiv-li), adv. In psychol., in an apperceptive manner; by way of the process of apperception: as, apperceptively apperceptively (ap'er-sep'tively constituted. apperceptively (ap 'er-sep' tiv-li), adv. In psychol., in an apperceptive manner; by way of the process of apperception: as, apperceptively known; apperceptively constituted.

appercipient (ap-er-sip'i-ent), a. [NL. appercipiens, ppr. of apperceipere, apperceive.] Apperceiving; capable of apperception. G. F. Stout, Anal. Psychol., II. 128.

Appert glass. See *glass.

appetizement (ap-ē-tīz'ment), n. [appetize + -ment.] Appetite; craving for food; hunger. Scott, Woodstock. [Rare.]

annetizingly (ap'ē-tīz'ing-li), adv. In an apperceiving for appe

appetizingly (ap'ē-tī-zing-li), adr. In an appetizing manner; in a way to whet appetite: as, food cooked appetizingly.
applanation (ap-la-na'shon), n. [NL. *applanation(n-), (*applanare, \L. ap- for ad-, to, + LL. planare, make plane: see plane!, r.] Flattening: said of the crystalline lens.

In some cases the eye becomes myopic, which fact can be explained only by the assumption that the crystalline lens in toto is pressed forward toward the cornea, and that, in spite of the fact that in this manner the zonule of Zinn is stretched, and that an applanation of the lens is taking place.

Buck, Med. Handbook, IV. 361.

be explained only by the assumption that the crystalline lens in toto is pressed forward toward the cornea, and that, in spite of the fact that in this manner the sonule of Zinn is stretched, and that an applanation of the lens is taking place. Buck, Med. Handbook, IV. 361.

apple, n. 1 and 2. The apple thrives under a very wide range of conditions, and in practically all temperate regions. In North America the chief regions in which it is produced commercially are the Eastern Canadian region, comprising parts of Ontario, Quebec, and the maritime provinces; the New England and New York region; the Piedmont region of Virginia; the Michigan-Ohlo region; the prairie-plains region, from Indians and Illinois to Missouri and Kansas, in which the Ben Davis variety is the leading factor; the Ozark region, comprising part of Missouri and Kansas, often known as "the land of the Dig red apple"; and the rapidly developing regions of the Booky Montain takeet and don't Constitutes. And the are unsuly less successful in other localities. As a country grows older, it usually happens that the list of desirable apples increases in length because of the choosing of varieties to suit special localities and special needs. It is impossible to give lists of varieties for planting in all parts of the country, either for market or home use. The number of varieties of apples runs into the thousands. A generation and more ago, the great emphasis in applegrowing was placed on varieties, and the old fruit-books testify to the great development of systematic pomology. The choice of varieties is not less important now; but other subjects have greatly increased in importance with the rise of commercial fruit-growing, such as the necessity and means of tilling the soil, fertilization and covercropping, the combating of insects and diseases (especially by means of spraying), and revised methods of handling, storing, and marketing. The result is the transfer of the emphasis to scientific and commercial questions. The nearest generic allies are t

Such apples are not new, being mentioned in ancient times; nor has any seedless apple yet received general commendation. 'Seedless' apples are of two kinds—apples of normal form and structure in which the core is reduced to a minimum, and apples with nearly or quite apetalous and more or less imperfect flowers. The latter group comprises the so-called 'bloomless' apples, which have been known for centuries. The mere fact of comparative seedlessness has no significance in the choice of a variety, for the apple-grower must have a variety of certain quality, color, and form, with a high degree of productivity and other desirable qualities.—Seven-year apple, a West Indian tree, Genipa clusies-folia, or its fruit. See Genipa.—Sooty blotch of apple.

apple-aphis (ap'l-ā'fis), n. The common leaf-louse, Aphis mali, of the apple, especially abundant in the late spring and early summer. Also apple-leaf aphis and apple-louse. See cut

under Anhis.

apple-borer (ap'l-bor'er), n. An insect which bothris femorata). See cuts under Saperda and Chrusobothris.

coal which mines easily. [Scotch.]

Applecross group. See *group!.

apple-dowdy (ap-l-dou'di), n. Same as *apple-slump.

apple-essence(ap'l-es'ens), n. Same as *apple-oil.

apple-faced (ap'l-fāst), a. Having a face round like an apple. Dickens, Dombey and Son. [Rare.]

apple-fig (ap'l-fi), n. 1. A little fruit-fly, Drosophila ampelophila, of the family Drosophil-idæ, which lays its eggs in overripe apples and other fruit, and especially swarms around cider-mills. See cut under fruit-fly.—2. A declaration of the family Drosophila ampelophila, of the family Drosophila ampelophila, of the family Drosophila ampelophila. See *canter.—Apple-tree borer. See *borer.—Apple-tree canter. See *canter.—Apple-tree tent-caterpillar. See *canter.—Yellow-necked apple-tree caterpillar. See *canter.—Yellow-necked apple-tree *canter.—Yellow-necked apple-tree *canter.—Yellow-necked apple-tree *canter.—Yellow-necked apple-tree *cant and other fruit, and especially swarms around cider-mills. See cut under fruit-fly.—2. A trypetid fly (Trypeta pomonella) whose larva, known as the apple-maggot or railroad-worm, infests apples in the northeastern United States. See cut under Trypeta.

apple-gall (ap'l-gâl), n. A gall resembling an

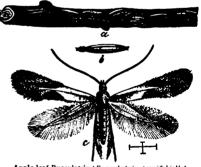
apple. — Grape-vine apple-gall, a gall, globular, fleahy, greenish in color, and nearly an inch in diameter, attached to the stems of grape-vines: produced by the larva of a fly, Cecidomyia vitis-pomum.

apple-grinder (ap'l-grin"der), n. A grinding-

mill for pulping apples, grapes, peaches, etc., or for grinding roots as food for cattle; a

apple-gum (ap'l-gum), n. A medium-sized tree, Eucalyptus Stuartiana, resembling the common apple. It yields a useful hard, brown timber, and a kino. Also called turpentine-tree, peppermint-tree, and apple-scented gum. [Victoria.]

apple-leaf (ap'l-löf), n. A leaf of the apple-tree.—Apple-leaf Bucculatrix, a tineid moth, Buccu-



Apple-leaf Bucculatrix (Bucculatrix pomifoliella). a, apple twig covered with cocoons; b, cocoon, enlarged;
c, moth, much enlarged (Riley).

latrix pomifolicila, whose larva feeds abundantly on the leaves of the apple in the eastern United States and hibernates within a whitish elongate, longitudinally ribbed cocoon attached to the twigs or trunk of the tree. Appleleaf fea.weevil. See *#,dea-ueevil.

apple-leather (ap'l-leTH'er), n. A sort of tough paste of a leathery consistency, made of apples partly cooked and dried in a hot sun.

apple-louse (ap'l-lous), n. Same as *apple-aphis.—Woolly apple-louse, Schizoneura Americana. See American *blight.

See American *blight.

apple-maggot (ap'l-mag'ot), n. The larva of Trypeta pomonella, a dipterous insect which damages apples in the New England States.

apple-midge (ap'l-mij), n. A small chironomid fly, Molobrus mali, whose larva feeds on the flesh of ripe and stored apples, hastening their

apple-nuts (ap'l-nuts), n. pl. A commercial name for the apple-shaped fruits of the ivory-

nut palms, Cœlococcus Amicarum and C. Solomonensis, of the Caroline and Solomon Islands.

See ivory-nut.

apple-oil (ap'l-oil), n. Ethyl or amyl valerianate diluted with alcohol: used to imitate the

odor of apples in confectionery and soda-water syrups. Also apple-essence.

apple-scab (ap'1-skab), n. A disease of the apple-tree which attacks both the leaves and fruit, caused by the fungus Fusicladium dendriticum. See Fusicladium and scab, 5.

apple-scale (ap'l-skāl), n. Any one of several species of scale-insects or bark-lice that infest the apple, notably, the oyster-shell bark-louse of the apple (Lepidosaphes ulmi, formerly Mytilaspis pomorum) and the scurfy scale (Chionaspis furfurus).

apple-slicer (ap'l-sli'sèr), n. An instrument for cutting apples into slices for culinary use.

bores into apple-trees, as the round-headed for cutting apples into slices for culinary use. apple-borer (larva of Saperda candida), or the apple-slump (ap'l-slump), n. Hot apple-sauce flat-headed apple-tree borer (larva of Chryso-covered with a rich dough and cooked. [U.S.] covered with a rich dough and cooked. [U.S.

apple-sphinx (ap'l-sfingks), n. A sphingid moth, Sphinx gordius. Its apple-green larva feeds on the foliage of the apple in Canada and the United States, from the Mississippi valley

upple-worm (ap'l-werm), n. The larva of the codling-moth, Carpocapsa pomonella, a cosmopolitan tortricid moth. See codlingcosmoponian tortricid moth. See codling-moth.—Many-dotted apple-worm, the larva of a noctuid moth, Balsa malara, two generations or broods of which appear during the summer, often feeding in numbers on the foliage of the apple. It is an inch or more in length and light green in color, with longitudinal white lines and many whitish dots.

apply, v. i. 5. In astrol., of a heavenly body, to approach to the conjunction or aspect of another.

another.

appointment, n.—Bureau of appointments. See *bureau.—Illusory appointment, such an appointment or disposition of property under a power as is merely nominal and not substantial. Bouvier, Law Dict.

Appolt coke-oven. See *coke-oven.

apport (a-port' or, as F., a-por'), n. [F., < apporter, < L. apportare, bring to, introduce.] The introduction, professedly by occult or supernormal means, of flowers, musical instru-ments, etc.: used with reference to performances of spiritualistic mediums.

Some of the physical phenomena which I have adduced as among those proclaimed to have occurred, such as apports, scent, movement of objects, passage of matter through matter, bear a perilous resemblance to conjuring tricks, of a kind fairly well known; which tricks if well done can be very deceptive. done can be very deceptive.

Sir Oliver Lodge, in Proc. Soc. Psychical Research,

XVII. 48.

apportionable (a-pōr'shon-a-bl), a. [apportion + -able.] Liable to be apportioned. Sir

apposal (a-pō'zal), n. The act of apposing. Apposal of sheriffs, in English law, the charging them with money received upon account of the Exchequer. Bouvier, Law Dict.

apposit, a. A simplified spelling of apposite.

apposition² (ap-ō-zish'on), [OF. apposition, var. of opposition. See appose².] A public disputation or examination: now used only as a name of Speech Day in St. Paul's School, London.

appositively (a-poz'i-tiv-li), adv. In apposition or so as to stand in apposition; appositionally: as, substantive expressions put ap-

appraisable (a-prāz'a-bl), a. [appraise + -able.] Capable of being appraised or of having the value fixed.

having the value fixed.

appreciation, n.—The world of appreciation, the world as it appears to spiritual insight, to the broadest and wisest conception of the most human good sense. Opposed to the world of description, or world of facts, under a materialistic and, as far as possible, scientifically theoretical aspect. The word appreciation in this phrase is to be understood in sense 2, as "sympathetic understanding" which "estimates the qualities of things and gives them their due value." The world of appreciation is a world of real, living, and purposing beings, in some sense the children of God. The term was introduced in 1892 by J. Royce. See the extract.

We shall be led to make a provisional sundering of the

We shall be led to make a provisional sundering of the two points of view, viz. (1) that of our appreciative or

most explicitly volitional consciousness, and (2) that of our descriptive or more theoretical consciousness. . . . We shall express the opposition of the two points of view by calling the realm of Being, as more abstractly theoretical consciousness defines it, the World of Description; while the world as otherwise interpreted is the world of life,—the World of Appreciation. . . . The only justification for the more abstractly theoretical conception of the World of Description is its value as a means of organizing our conduct and our conception of what the will seeks.

Royce, The World and the Individual Calantary of the content of the World and the Individual Calantary of the world and the Individual Calantary of the content of the world and the Individual Calantary of the world and the Individual Calantary of the content of the world and the Individual Calantary of the content of the world and the Individual Calantary of the content of the world and the Individual Calantary of the content of the content of the world and the Individual Calantary of the content of the world and the Individual Calantary of the content of the world and the Individual Calantary of the content of the world of the content of the world of the w

Royce, The World and the Individual, 2d ser., p. 26.

appreciativeness (a-prē'shi-ā-tiv-nes), n. [appreciative + -ness.] The character of being appreciative; disposition to recognize excellence.

apprehension, n.—Implicit apprehension, in pey-chol, the understanding of a whole in its unity and dis-tinctness, without discernment of all or even any of its

This circumstance suggests a name for that apprehension of a whole which takes place without discernment of its parts. We may call it implicit apprehension.

G. F. Stout, Anal. Psychol., I. 95.

apprenticement (a-pren'tis-ment), n. [apprentice + -ment.] The act of apprenticing; prentice + -ment.] The a apprenticeship. [Rare.]

The premature apprenticements of these tender victims.

Lamb, Essays of Elia, Praise of the Chimney Sweeper.

appressor (a-pres'or), n. Same as *appresso-

appressorium (a-pre-sō'ri-um), n.; pl. appressoria (-ä). [NL., < L. apprimere, pp. appressus, press to: see appressed.] The organ by which parasitic fungi attach themselves to their hosts, consisting usually of the flattened or swollen end of a hypha.

Appressoria are also formed by some parasitic Fungi, as a minute flattening of the tip of a very short branch (Erysiphe), or the swollen end of any hypha which comes in contact with the surface of the host (Piptocephalis, Syncephalis), haustoria piercing in each case the cell-wall below. In Botrytis the appressoria assume the form of dense tassels of short branches.

Encue. Brit., XXVIII, 555.

approach, n. 6. In golf, the play by which a player endeavors to get his ball on to the putting-green.

approbatory, a.—Articles approbatory. See $\star articles$

Approver in the marches. See *march1.

Approximate numbers. See *number.
approximator (a-prok'si-mā-tor), n. One who
approximates or comes near.

Appunn's lamella or reed. See *lamella. apricot, n.— Essence of apricot, amyl butyrate mixed with ayml alcohol and diluted with ordinary alcohol: used to imitate the odor of apricots in confectionery and soda-water ayrups.

apricot-oil (ā'pri-kot-oil'), n. A fat oil expressed from the kernels of apricots: now often substituted for almond-oil.

a prima vista (ä prē'mä vis'tä). [It.: see prime and vista.] At first sight: as, to read a piece of music a prima vista.

Aprion (a-pri'on), n. [NL., \langle Gr. \dot{a} - priv. + $\pi\rho i\omega r$, saw.] A genus of snappers of the family Lutianidæ, found in the tropical seas: distinguished by the scaleless fins. A. virescens of the Pacific is an excellent food-fish.

apriorist, n. II. a. Of or pertaining to a priori

cognition, or to apriorism.

The apriorist notion that among free competitors wealth must go to the industrious.

G. B. Shaw, Fabian Essays in Socialism, p. 177.

aproctia (a-prok'ti-ä), n. [NL., (Gr. ά-priv. + πρωκτός, anus.] The condition of having an imperforate anus.

apron, n. 2. (j) In mining, a block of timber forming an off-set to a pump-rod. (k) In gold-milling, the amalgamated copper plates outside of a stamp-battery, used to collect the gold from the pulp which flows over these plates in a thin stream from the mortar. Also apron-plate.

4. (b) The vertical portion of the slide-rest of an engine-lathe which carries the clasp-nut and the gearing for the feed. (c) The slide or grate of a punching- or shearingmachine.

macine.

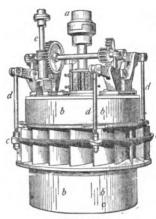
5. (d) A platform built of timbers at the foot of a slide, which guides in the desired direction logs leaving the slide. (e) The shield in front of the face of an undershot water-wheel, intended to keep the water in action upon the buckets.

6. An overwashed deposit of gravel and sand

such as is commonly spread southward from the greater moraines of the northeastern United States. Also frontal apron and morainic apron.

Where the topography was not rugged, numerous icc-derived streams built sloping plains resembling low al-luvial fans. These are well seen on Long Island and Martha's Vineyard, and to those of the latter place Professor Shaler has given the very descriptive name of frontal aprons. Bulletin Amer. Geog. Soc., XXX. 20%





Cylinder-gate.

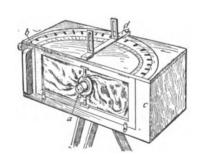
cylindruria (sil-in-drū'ri-ā), n. [NL., ζ Gr. κύλανδρος, cylinder, + οὐρον, urine.] In pathol., the condition in which there is a passage of urinary tube-casts in the urine.

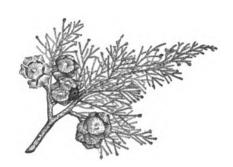
Cym. An abbreviation of Cymric.
cymba, n.—Cymba conchæ, in anat., the upper portion of the concha of the ear, above the auditory meatus.
cymbalo (sim'ba-lō), n. Same as cembalo.
cymbella (sim-bel'ā), n.; pl. cymbellæ (-ē).
[NL., dim. of L. cymba, a boat: see cymba.] In bot., one of the elliptical zoöspores of some algæ.

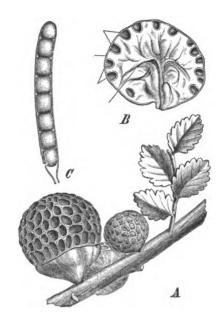
cymbocephalic, a. 2. Belonging to a sub-division of the oöidocephalic forms, character-ized by an exceedingly protuberant occiput. Aithen Mergs.

Cymbocephalous (sim-bō-sef'a-lus), a. Same as cymbocephalic.

cymbocephalus (sim - bō - sef'a-lus), n.; pl, cymbocephali (-lī). [Gr. κύμβη, bowl, + κεφαλή, head.] One who has a cymbocephalic skull.







wasp's nest.] A genus of discomycetous fungi having the ascomata sunken in the surface of a subspherical mostly stipitate stroma which is gelatinous when mature. About 6 species are known, mostly from Patagonia and Tierra del Fuego, where they are eaten by the natives. They grow upon living branches of beeches, species of Nothologus. See beech-fungus and mushroom, 1.

Cyttaria et aceæ.] A family of ascomycetous fungi named from the single genus Cyttaria, and having the same general characters. See *Cyttaria.

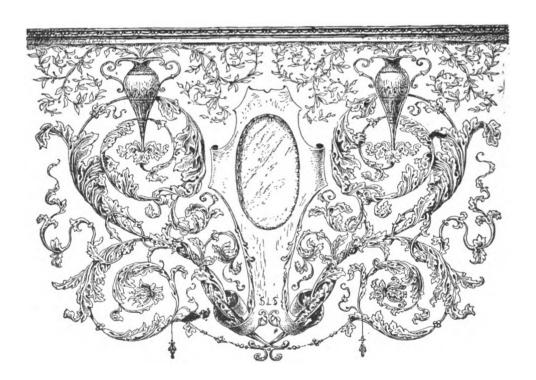
C. Z. An abbreviation of (Gould's) Cordova Zones. See *G. C. Z.

The White Tsar's people call
Aloud to the skies of lead:
"We are slaves, not freemen:
Ourselves, our children, our v
Dead, we are dead,
Though we breathe, we are de
R. W. Gilder, In the F
The White Tsa

The growing influence of the Tsar in the affairs of other nations was conditioned by the same causes as the decline of the Tsarian System within the confines of Russia.

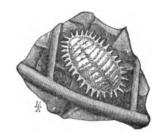
A. Ular, Russia from Within, p. 1.

czarism, tsarism (zär'izm), n. Absolutism in government, such as that of the Czar of Russia. A. Ular. Russia from Within, p. 5.

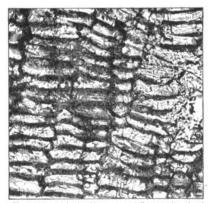












Photomicrograph of a thin section of Daimonelix, showin plant structure.

decene (de'sen), n. [L. dec(em), ten, + -ene.] A hydrocarbon, C₁₀H₂₀, belonging to the eth-ylene series. It is an oily liquid which boils at 172° C

decenniad (de-sen'i-ad), n. [decennium + decontered (de-sen'terd), a. [de-+ center + -ed^2.] Same as *decentrated.

decentrated (de-sen'tra-ted), a. [*decentrate (< L. de- + *centratus, < centrum, center) + -ed².] In optics, having the optical center not directly in front of the pupil: noting a lens which by this fact has a slightly prismatic

which by this fact has a slightly prismate or grain-equivalent of the dissolved substance. See *concentration (c) and normal *solution.

decentration (de-sen-trā'shon), n. [*decen-decipher, n. 2. A deciphered cipher; a transtrate + -ion.] Removal from a center: as, lated version of a cipher.

decentration of a lens, in which the visual line deck, v. t. 5. To rig out: as, to deck the carddecentration (dē-sen-trā'shon), n.

decentration of a lens, in which the visual line does not pass through the center.

decentric (de-sen'trik), a. [L. de- + centrum, center, + -ic.] That has been decentered, detached, or dissociated from a particular center or central object; considered or viewed apart from and without reference to some central return are which the statement of tral notion or object.

We see love charms dissociated from sex centers and become objects of independent attraction. . . . If touch, smell, voice, eye, . . . are the decentric series, we can see how now a change in fashion, now in manners, . . . may each be only a change of fetish groups.

G. S. Hall, Adolescence, IL 115.

G. S. Hall, Adolescence, II. 116.

decenylene (dē-sen'i-lēn), n. [L. decem, ten, +-en +-yl + -ene.] A colorless liquid, C₁₀

H₁₈, prepared from decylene bromide and alcoholic potassium hydroxid. It boils at 150° C. Also decine.

decerebrate (dē-ser'ē-brāt), a. [L. de, from, + cerebrum, cerebrum, + -ate1.] Deprived of the cerebrum; associated with or consecutive to removal of the cerebrum.

The decerebrats monkey exhibits "cataleptoid" reflexes. Father Kircher's experimentum mirabile with the fowl and the chaik line succeeds best with the decerebrate hen.

Encyc. Brit., XXXI. 744.

decerebrate (dē-ser'ē-brāt), v. t. Same as

decerebration (de'ser-e-bra'shon), n. Removal of the brain.

moval of the brain.

Dechenella (dek-e-nel'ä), n. [NL., <G. Dechen
(H. von Dechen, 1800-89, a German geologist)
+ dim. -ella.] A genus of Devonian trilobites
of the family Proteidæ.
dechristianization (dē-kris'tian-ī-zā'shon), n.
The process of making non-Christian; a breaking down of Christianity.

The Renascence was not, as has been said, a superficial revolution of people's souls; it was, for a narrow group of souls reared in the aristocracy of art and intellect, a profound decaristianisation which, underneath the Reformation, was to spread among us in the eighteenth century.

Tarde (trans.), Laws of Imitation, p. 363.

Decian (de 'shi-an), a. Of or pertaining to the Roman emperor Decius or his reign (249-251): as, the Decian persecution of the Christians

decidus, n.—Ovular decidus. Same as decidus re-fexa.—Placental decidus. Same as decidus serotina. deciduitis (dē-sid-ū-ī'tis), n. [NL., < decidus + itis.] Inflammation of the decidus.

deciduoma (dē-sid-ū-ō'mā), n.; pl. deciduomata (-ma-tā). [NL., < decidua + -oma.] A tumor of the uterus resulting from overgrowth of a portion of the decidua which remains after abortion.—Deciduoma malignum, a cancerous tumor resulting from malignant degeneration of a deciduoma.

decifer, v. A simplified spelling of decipher.

deciler, v. A simplified spelling of decipher.
decil, n. 2. In math., an object or term occupying a place whose ordinal corresponds to 10 or to a multiple of 10. Also decile.
decilux (des'i-luks), n. [L. deci(mus), tenth, + lux, light.] In photom., one tenth of the illumination from a light-source having an intensity of one hefner and placed at a distance

of one meter; one tenth of a lux. decim. An abbreviation of decimeter.

decima, n. 3. A tenth part; a tithe or tax of one tenth.

one tenth.

decimal. I. a.—Decimal candle, See *candle,—
Decimal degree. (a) Of time, 0.1 of an hour. (b) Of an
angle, one sixtieth of a right angle. (c) Of an arc, one
two-hundred-and-fortieth of a circumference.—Decimal
hour, an hour divided into one-hundredth parts called
decimal minutes, and into ten-thousandth parts called
decimal seconds.—Decimal minute. (a) Of an angle,
one six-hundredth of a right angle; 0.1 of a decimal degree. (b) Of time, 0.01 of an hour; 0.6 of an ordinary minute.—Decimal second, one one-hundredth part of a
decimal minute.—Decimal watch. See *valch.

II. a.—Infinite decimal. See infinite—Periodic

II. n.—Infinite decimal. See infinite.—Periodic decimal, a recurring decimal. decimilivoltmeter (des-i-mil-i-volt'mē'tèr), n. [L. deci(mus), tenth, + millivolt + meter3.]

In elect., a voltmeter reading to tenths of a millivolt.

decimo, n. (c) A silver coin of Chile, equiva-lent to 10 centavos. (d) A copper coin of La Plata, the tenth part of a medio.

decine (dê'sin), n. [L. dec(em), ten, + -ine².] Same as *decenylene.

decinormal (desi-nôr'mal), a. [L. deci(mus), tenth, + normalis, normal.] 1. Having one tenth of a normal or usual strength.—2. In phys. chem., said of a solution in which one phys. chem., said of a solution in which one liter contains one tenth of the gram-molecule or gram-equivalent of the dissolved substance.

cylinder of a Jacquard loom.— To deck up, to plle (logs) upon a skidway. pile (logs) upon a skidway.

deck, n. 2. The names given to the various decks in a vessel differ greatly at different times and in different localities. (a) The decks of United States war-ships, as officially defined, are as follows: The highest deck extending from stem to stern is called the main deck. A partial deck above the main deck at the bow is called the forecast-deck; at the stern, poop-deck; aniships, upper deck. The name upper deck is also applied to a partial deck extending from the waist to either bow or stern, in which case the name forecastie-deck or poop-deck, as the case may be, is not used, though the terms forecastie-in corresponding portions of such upper deck. When there is no deck above the main deck are to be wasted, as general way, to indicate the portions of the main deck forward of the foremast or of the superstructure and att of the mainmast or of the superstructure, respectively. A partial deck above the main deck amidships, the space under which is not inclosed or consists of small compartments, is called the bridge-deck. This term should not be applied to a simple connecting gangway between the forward and after bridges or between a bridge and the forecast-deck or poop-deck. The working bridges are called the bridge, the forward bridge, the after bridge, is stances. A connecting gangway between the forward and after bridges, or between a bridge and the forecast-deck or poop-deck, is called the for-and-qt/bridge. This is usually the deck at or next above the water-line. A complete deck on which guus are carried between the main deck and the forecast-deck or poop-deck, is called the part-deck. If it is usually the deck at or next above the water-line. A complete deck which should be approached a complete deck on which guus are carried between the main deck and the forecast-deck and foreard (or after) protective deck and foreard (or after) protective deck is alled the part-deck is called th

the highest deck, of light construction, on which the lifeboats are carried. A short low deck at the bows is called an anchor-deck or monkey-forecastle. A raised quarter-deck is a part of the upper deck abat the bridge-house, at a somewhat higher level than the upper deck forward. A forecastle is a deck above the upper deck at the bows. A poop is a similar deck at the stern. In a special British design of cargo-steamer, of which many have been built, the side, instead of meeting the main deck rectangularly, is rounded off so as to make a continuous curved surface with the deck. Inboard of this the side is again curved up. The space between the sides at the top is covered by a narrow deck called the turret-deck, the horizontal part on the main-deck level being called the harbor-deck. In a generally similar type of cargo-steamer, in which, however, the side is not rounded off, the narrow deck covering the central superstructure or trunk is called the trunk-deck. In a large Long Island Sound steamer, besides the important structural-steel lower and main decks, there are the following, from below upward: saloon-, gallery-, hurricane-, break-, and dome-decks. The tonnage-deck is that one from which the under-deck gross tonnage is measured. (See tonnage.) In vessels having three or more decks to the hull it is the second deck from below; in all others the upper deck of the hull is the tonnage-deck. (Sec. 4150, Revised Statutes.) A fush deck is one extending from stem to stern without break in continuity of surface.

7. In car-building, the roof of the clearstory of a passenger-car, often called upper deck; also, the slooping roof on either side of the clears-

decl.

of a passenger-car, often called upper deck; also, the sloping roof on either side of the clearof a passenger-car, often called upper deck; also, the sloping roof on either side of the clearstory, often called lower deck. The word is used in many compounds, such as deck-hood, a projecting shelter to keep the rain out of the deck-end ventilator of a street-car; deck-lamp, a gas-lamp suspended fron the under side of the deck; deck-sash, a clearstory window.—Deck side, including sash, etc., of the clearstory of a car.—Deck smatch-block. Same as plate **kenatch-block.—Deck ventilator, one of the sashes at the deck side of a car, operated by a deck-sash opener.—Protective deck, in a war-ship, a deck in the vicinity of the water-line intended primarily to prevent the penetration of the enemy's projectiles into the vital parts of the ship beneath it. For location, see **Meck*, 2. The deck is sometimes of an arched shape, the edge of it at the side being from 4 to 6 feet below the load water-line and usually rising to from 2 to 3 feet above it in the center. More frequently, however, the central part is flat and there is a sloping part at the side, as indicated in the cut under frame. This form of deck is used in most protected and armored cruisers and also frequently in battle-ships of recent deck; in the central parts is carried out level to the top of the armor-belt. In the British navy the main-deck plating is sometimes made extra heavy, forming a second protective deck in the central parts is carried out level to the top of the armor-belt. In the British navy the main-deck plating is sometimes made extra heavy, forming a second protective deck show the water at the level of the bottom of the side armor. Protective deck are usually made in two or three thicknesses of plate, the upper thickness being of nickel-steel. The total thickness of steel on the flat parts varies from 1 to 5 mches, on the slopes from 1 to 6 inches. Also erroneously called protected deck.

deck-block (dek'blok), n. A block having one or more sheaves, and the sides and base cast in one piece and screwed to the deck. See plate *snatch-block.

decker, n. 3. In lumbering, one who rolls logs upon a skidway or log-deck.

deck-erection (dek'e-rek'shon), n. In ship-building, any permanent structure projecting above the general line of the upper deck, as a deck house proposed for each type. above the general line of the upper deck, as a deck-house, poop, or fore-castle. White, Manual of Naval Arch., p. 10.

deck-head, n. 2. The card exposed on the top of the pack; specifically, the turned trump in the game of spoil-five.

deck-hood (dek'hùd), n. See *deck, 7.

decking-chain (dek'ing-chān), n. Same as *bodding-chain.

deck-lamp (dek'lamp), n. See *deck, 7 deckle-edge (dek'l-ej), n. Same as deckle (b). deck-light (dek'lit), n. A heavy piece of glass, of circular or rectangular prismatic form, set

into a deck to give light below.

deck-line (dek'lin), n. In ship-building, the line formed by the intersection of the surface of the deck at the top of the beams with the central longitudinal plane; also, the intersection of the surface with the molded surface of the side of the versel, called deak linear terrater. the side of the vessel: called deck-line at center

and at side, respectively.

deck-nail (dek'nail), n. A kind of soft iron spike with a flat head, commonly made in a diamond form: used for decks where any projection of the head above the level surface

would be objectionable. deck-plating (dek'pla"ting), n. In ship-building, the steel or iron plates forming the cover-

ing of a deck, considered collectively.

deck-pot (dek'pot), n. A large iron pot or kettle used on whalers to receive scraps from the try-pots.

The oil flows freely between their fingers into the pots, while the refuse, called "twitter," is thrown into another receptacle, called the deck-pot, or perhaps into scrapturbs.

Sci. Amer. Sup., March 5, 1904, p. 23551.

deck-sash (dek'sash), n. See *deck, 7. deckt, pp. A simplified spelling of decked. decl. An abbreviation (b) of declination.

decoy, n. 4. A pond used to snare and entrap, and also to maintain and breed, waterfowl.—Decoy letter, a letter prepared and mailed for fowl.—**Decoy letter**, a letter prepared and mailed for the purpose of detecting suspected violators of the postal and revenue laws and postal thieves, or for similar pur-

decoyman (dē-koi'man), n. A man in charge a decoy or of several decoys for luring

Having no ribs.

birds, animals, etc.

declamation, n. 2. (b) A specially close or decollator (de-ko-la'tor), successful union of tones with words, as in a n. Same as *decapitator.
song or aris. (c) A work in which the text is décolletage (dā-kolread or spoken while a musical accompaniment täzh'), n. [F., \ décolleor comment is played. Also called melodrama. ter, cut low in the neck:

See melodrama, 2.

See melodrama, 2.

declaration, n. 6. In card-playing, an announcement or meld; in bridge, specifically, the naming of the trump suit by the dealer. Sometimes called the make.—Auburn Declaration, a defensive statement of doctrine issued by a convention of the Presbyterian synods of Utica, Geneva, Genesee, and the Western Reserve (Auburn, New York, August 17, 1837), in answer to the acts of the General Assembly (May, 1837) exacinding the churches of the above synods for alleged heresies. The declaration was later (1868) indorsed by the General Assembly as having "all the fundamentals of the Calvinistic creed."—Declaration of Paris, a declaration signed by the duly authorized delegates of the powers to the Congress of Paris, in 1856, in regard to the rights of belligerents and neutrals in time of war. It includes four points: (1) Privateering is abolished; (2) the neutral flag covers enemy's goods, except when contraband, are not liable to capture under an enemy's flag; (4) blockades to be binding must be effective. The United States refused to accept the first of these, but concurred in the others.—Mecklenburg Declaration. See Mecklenburg Declaration of Independence, in Century Cyclopedia of Names.

declars, v.i. 5. In bridge, to make or name the trump suit, or to announce the intention to play without a trump.

declass (dē-klàs'), v.t. [F. déclasser, < dé-, L. de from + classe class see class n.] To re-

declass (dē-klas'), v. t. [F. déclasser, < dé-, L. de, from, + classe, class: see class, n.] To remove from one's or its class.

déclassement (dā-kläs-māṅ'), n. [F., < déclas-ser, declass.] The breaking down of class dis-tinctions in society.

The primary school . . . is rapidly leading to a general déclassement.

Kidd, Social Evolution, App. iii.

declination, n.—Circle of declination. See *kariel., *kcompass.

— Declination axis, compass. See *kariel., *kcompass.

— Declination of a plane, in dialing, the angle made by a vertical plane with the prime vertical or with the meridian plane.

declinatorium (dek'li-nā-tō'ri-um), n.; pl. declinatoria (-ä). In phys., an instrument for measuring the magnetic declination; a circle

of declination.

decline, v. i. 10. In chess, to refuse to take a piece or pawn offered.

piece or pawn offered.

decoagulate (dē-kō-ag'ū-lāt), v. t.; pret. and
pp. decoagulated, ppr. decoagulating. [de-+
coagulate.] To change from a coagulated condition: applied by Duclaux to the action of a
diastatic ferment, found in malt, which converts starch into soluble dextrines.

decoction, n.— Zittmann's decoction, a decoction of saraparilla, containing calomel, cinnabar, and various aromatic substances, employed in the treatment of syphilia decoctor (dē-kok'tor), n. [L. decoctor, \(\) decoquere, squander, waste, lit. boil down, boil away: see decoct.] In Roman law, an insolvent; a bankrupt; one who squandered public funds.

funds.

decode (dē-kōd'), v. t.; pret. and pp. decoded, ppr. decoding. [de-+code.] To turn or translate (a message or letter from a cipher code) into its original language or form. See code, 4.

Decodon (dek'ō-don), n. [NL., < Gr. déka, ten, + bobs (bobr-), tooth.] A genus of ladyfishes or Labridæ, found in the waters about Cuba, remarkable for their bright colors. D. puellaris is the only species.

decohere (de-kō-hēr'), v. i.; pret. and pp. decohered, ppr. decohering. In elect., to increase in resistance, as a coherer in process of restoration to its normal condition of sensitiveness or as an anticoherer when acted upon by electric

decoherence (dē-kō-hēr'ens), n. Decohering action. Science Abstracts, VI. § B, p. 128. decoherer (dē-kō-hēr'er), n. Same as *anti-

decohesion (dē-kō-hē'zhon), n. [de- + cohesion.] The effect of decoherence.

After a short description of the single contact coherer used by him and an explanation of the so-called decohesion, he calculated how near the metallic surfaces must be brought together.

Science, March 21, 1902, p. 466.

decoic (dē-kō'ik), a. [Gr. δέκα, ten, + -o- + -ic.] Noting an acid, the same as *decatoic or capric

decollate, v. t. 2. To remove the apex of, as

decollation, n. 3. In conch., the removal by death, growth, or accident—of the upper shell.

whorls of a spiral shell after the animal has decorticator, n. 2. Any machine for removceased to occupy them. See cut in middle ing hulls, bark, or other outer covering of

The coils may be lost by decollation, as in Cœcum, in which the spiral part drops off.

Sedywick, Text-book of Zoöl., L 360.

see décolleté.] In dress-making: (a) The state of being cut low in the neck: said of the bodice or waist of a dress. The low-cut neck itself

of a bodice.
decompensation (đākom-pen-sa shou), n. [de-kom-pen-sa shou), n. [de-decompensation.] Failing the shows where the decollation compensation of the heart the shows where the decollation that the shows the shows the shows the should be shown that the shows the shows

in valvular disease. decompression (de-kom-presh'on), n. [de-+compression.] Relief from pressure; specifically, relief from excessive atmospheric or

hydrostatic pressure. decongestive (de-kon-jes'tiv), a. and n. [de-+ congestive.] I. ä. Tending to reduce con-

Treatment by physical agencies, by electricity in par-ticular, restores general and local nutrition, has a decon-gestive local action, depurative in general, and anti-neo-plastic in particular. Med. Record, Aug. 1, 1903, p. 167.

II. n. A remedy designed to reduce con-

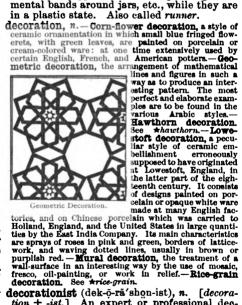
deconsider (de-kon-sid'er), v. t. [de-+ con-sider.] To leave out of consideration; treat with scant consideration.

deconsideration (de-kon-sid-e-ra'shon), n.
The act of deconsidering or the fact of being deconsidered.

deconstruct (de-kon-strukt'), v. t. [de-+ con-struct.] To take apart (what has been put to-gether); undo the construction of; undo (what has been done).

deconstruction (de-kon-struk'shon), n. [de-+ construction.] The undoing of what has been constructed or done.

decorating-wheel (dek'ō-rā-ting-hwēl'), n. A small cylinder or disk of wood, baked clay, or metal which revolves on the end of a handle and usually carries a pattern in relief or in cavetto; a coggle: used for impressing ornamental bands around jars, etc., while they are in a plastic state. Also called runner.



decorationist (dek-ō-rā/shon-ist), n. [decora-tion + -ist.] An expert or professional decorator. Carlyle.

decorporated (dē-kôr' pē-rā-ted), a. [L. de, from, + corpus (corpor-), body, + -ate¹ + -ed².]

Deprived of a body: said, for example, of the head after its separation from the body by the

guillotine.

decorticated (dē-kôr'ti-kā-ted), p. a. 1. Same
decorticate: applied most frequently to as decorticate: applied most frequently to trunks of fossil trees of the coal-measures.—2. Having the periostracum, or the periostracum and the porcelanous layer, worn away, as a

ing hulls, bark, or other outer covering of seeds or parts of plants: as, a hemp-decorticator, or hemp-brake.

decortization (de-kôr-ti-za'shon), n. Decorti-

decr. In music, an abbreviation of decrescende. decreative (de-kre-a'tiv), a. [de-+ creative.] That tends or serves to hinder, reverse, or A, decollated (adult) form, and B, perfect (young) form of Cylindrella nobilior Ad, Jamaica; the dotted line shows where the decollation

undo some creative act.

Development is upward, creative, and not decreative.

G. S. Hall, Adolescence, II. 546-

G. S. Hall, Adolescence, IL 546-decree, n.— Decree of forthcoming, in Scots law, the decree, made after the arrest of a debtor, by which it was adjudged that the debt be paid or the property of the debtor delivered to the creditor causing the arrest.—Order of decrees, the doctrine concerning the order of the divine decrees to create, to permit the fall of man, to provide salvation, and to secure acceptance of salvation to some. There are three forms of the doctrine, supralapsarianism, infralapsarianism, and sublapsarianism.

decrement, n.—Logarithmic decrement, the Napierian logarithm of the ratio of a preceding to a succeeding amplitude in a damped vibration.

decrepit, a. 2. In geol., said of rivers that have reached the last stages of their existence, or of that portion of a drainage-course which

or of that portion of a drainage-course which has reached base-level and where deposition along the bed exceeds the amount removed by floods. Dana, Manual of Geol., p. 182. lecres. In music, an abbreviation of decre-

decres.

decubital, a. 2. Relating to decubitus.

Thrombosis may take place in this area due also to the added weight of the decubital position.

Med. Record, July 25, 1903, p. 131.

Decubital gangrene. Same as bed-sore.

Decubitus paralysis, pressure paralysis due to lying for a long time in a faulty position.

deculor, deculorize. Simplified spellings of decolor, decolorize.

decumana (dek-ū-mā'nā), n. [L. (porta) decumana, adj. fem. of decumanus. See decuman.]
One of the two gates of the typical Roman camp. See decuman, a., 1. Opposite the porta decumana was the porta prætoria, the two being connected by the via prætoria, the principal street of the camp.

decuria (de kū'ri-ā), n.; pl. decuriæ (-ē). [L.: see decury.] A company of ten; specifically, in the Jesuit method of instruction, a minor division of a class in which chiefly memory

lessons are heard.
decurion, n. 3. In Rom. hist., a member of
the senate of a colony or of a municipality; a town-councilor.—4. A member of the great council of an Italian city or town. **Decurtate pulse**. See *pulse1.

decussation, n.— Fillet decussation. See $\neq \beta ket$.— Fontanal decussation. Same as $\neq fountain$ decus-

decylic (de-sil'ik), a. [L. decem, ten, + -yl +-ene.] Same as *decene.
decylic (de-sil'ik), a. [L. decem, ten, + -yl

+-ic.] Same as capric.

ded, a. A simplified spelling of dead.

dedans (de-dän'), n. [F. dedans, the interior, prop. prep., within, < de (< L. de), of, + dans, within: see denizen.] In court-tennis, that

within: see denizen.] In court-tennis, that part of the penthouse at the service end which is netted off for spectators.

dedendum (de-den'dum), n.; pl. dedenda (-dä).

[NL. (contrasted with addendum), < L. dedendum, neut. fut. pass. part. of dedere, give up, < de, away, + dare, give.] That part of the tooth of a cog-wheel or gear which is inside the pitch-circle and is intercepted between the pitch-line and the circle which limits all the roots of the teeth and the spaces between them. The addendum of the teeth of the

them. The addendum of the teeth of the meshing-wheel enters into this space. deditician (ded-i-tish'an), n. [L. dediticius, a captive, also as in def., \(\) deditus, pp. of dedere, surrender, give up.] In Rom. law, a former slave who upon manumission was not admitted

to full citizenship because of some offense committed during slavery.

dedly, a. A simplified spelling of deadly.

dedolomitization (dē-dō'lō-mit-i-zā'shon), n.

[de-+ dolomitization.] In petrog., the change

of a dolomite to some other rock.

dedolomitize (dē-dol'ō-mit-īz), v. t.; pret. and pp. dedolomitized, ppr. dedolomitizing. [de-+dolomite+-ize.] In petrog., to change (a dolomite) into some other kind of rock, as by the formation of magnesian silicates or of magnesium hydrous oxids. Deed of arrangement, in Eng. law, an instrument transferring the property of a debtor to a trustee for the benefit of his creditors.

deëducational (de-ed-ū-kā'shon-al), a. [de-+ educational.] As regards the hindering or un-doing of education or educational work.

demanate (dē-em'a-nāt), r. t.; pret. and pp. demanated, ppr. demanating. [de. + emunate.] To deprive (a radioactive substance) of the power of giving off an emanation, or to reduce, by heating or other process, the rate of the escape of the emanation from such a

deëmanation (de-em-a-na'shon), n. The process of depriving (a radioactive substance, such as radium) of the power of emitting emanation, or the reduction of the rate of such emission; the state or condition in which emanating power ceases or is reduced.

Thus de-emanation does not permanently destroy the ower of thorium of giving out an emanation.

E. Rutherford, Radio-activity, p. 216.

deep-field (dēp'fēld), n. In cricket: (a) A fielder placed at or near the boundary somewhere behind the bowler. (b) The position of such a fielder.

such a fielder.

deepsinker (dēp'sing-ker), n. 1. A deep tumbler; a tumbler of the largest size as regards depth.—2. The drink or beverage served in such a tumbler. [Slang, Australia.]

deep-tank (dēp'tangk), n. In ship-building, a tank formed by partitions or bulkheads cutting off a part of the hold and specially constructed to hold wreter bulket. See the last

on a part of the hold and specially constructed to hold water ballast. See *ballast-tank. A midship deep-tank is in the middle of the length; the forepeak and afterpeak tanks, or trimming tanks, are at the ends of the vessel.

deer, n.—Irish deer, an extinct representative of the Cervides, Cervus or Megaceros giganteus, remarkable for its large size and great spread of palmate antiers, "which diverge at right angles from the plane of the frontals and



of the Irish Deer (Cervus giganteus) from the Pleisto-eland. (From Nicholson and Lydekker's "Palæon-

have a distinct brow- and bez-tine and a small posterior tine on the opposite side of the beam to the bez-tine." (Nicholson and Lydekker, Manual of Paleont, p. 1134.) Its remains are found in the bogs of northern Europe, particularly of Ireland, and specimens have been found with a spread of more than 11 feet between the tips of the antlers. Also called Irish Elk.

deer-balls (der'balz), n. See hart's-truffles. deer-brush (der 'brush), n. One of several shrubs of the genus Ceanothus (C. integerrimus, C. incanus, and C. velutinus) which furnish shelter and browsing for deer.

deer-fern (dēr'fern), n. See *fern¹.
deer-ffy (dēr'fi], n. 1. A European hippoboscid fly, Lipoptena cervi, which lives on the European red deer.—2. An American hippoboscid fly, Lipoptena depressa, which occurs on

bosed fly, Lipoptena depressa, which occurs on Cervus virginianus: also called deer-tick. deer-food (dēr'föd), n. The water-shield or water-target, Brasenia Schreberi, supposed to be eaten by deer. deer-foot (dēr'fūt), n. A V-shaped iron catch on the side of a logging-car in which the binding-chain is fastened. ing-chain is fastened.

deer-forest (der'for'est), n. A tract of land frequented by deer and used as a hunting-pre-

deer-grass, n.-2. A bunch-grass, Epicampes rigens, found in the southwestern United States: it is of some forage value.-3. In Wyoming and Montana, the sheep's fescue, Festuca orina.

deer-grasshopper (der'gras'hop-er), n. A Malayan locustid insect, of the genus Mecopoda, which is enabled by its greatly devel-

deerman (der'man), n. A member of one of the pastoral reindeer-raising communities of Siberia: opposed to the maritime fisherman of the same tribes.

deer-necked (der'nekt), a. Having the dorsal or upper margin of the neck concave instead of convex or at least straight; ewe-necked: said of a horse.

deer-park (der'park), n. A park in which deer live or are kept.

Deer parks... constitute a feature of considerable importance because of their area in the mountain regions of both the Eastern and Western portions of the United States.

Yearbook U. S. Dept. Agr., 1900, p. 585.

deer-stalker, n. 2. A lined cap of cloth or flannel, peaked before and behind with the same material, and sometimes having ear-flaps

same material, and sometimes having ear-flaps which are turned up over the crown and tied together at the top by laces. [Eng.]

deer's-tongue, n. 2. The white adder's-tongue, Erythronium albidum.—3. The rib-grass, Plantago lanceolata. In all the deer's-tongues the form of the leaf suggests the name.

deer-tick (dēr'tik), n. Same as *deer-fly.
deer-weed (dēr'wēd), n. A handsome yellow-flowered Californian leguminous plant, Lotus glaber. Also called wild broom. See *broom1.
deer-yard (dēr'yärd), n. A winter pasture or browsing-ground of deer.

browsing-ground of deer.

de-ethicize (dē-eth'i-sīz), v. t. To deprive of moral implications or tendencies.

moral implications or tendencies.

def. a. A simplified spelling of deaf.

def. An abbreviation (a) of defendant; (b) of
defined; (c) of definite; (d) of definition.

defaultant (dē-fâl'tant), a. [default + -antl.]
Charged with or guilty of defaulting.
defaulter, n. 2. In the British service, a soldier accused of a military offense.

defector (dē-fek'tor), n. One who defects,
falls away, deserts, or secedes, as from a religious body, a political party, or the like.

defemination (dē-femi-nē-shon) n. [L. de-

defemination (de-fem-i-na'shon), n. [L. de-+ femina, woman, + -ation.] Deprivation of some of the characteristics of a woman, with or without the assumption of some of those of the

male sex.

defeminize (de-fem'i-niz), v. t.; pret. and pp.
defeminized, ppr. defeminizing. [L. de- + femina,
woman, + -ize.] To deprive of feminine qualities and tastes; affect with masculine notions or a liking for mannish modes of life and pursuits or an aversion to domestic life. Amer. Jour. Psychol. XI. 546.

Jour. Psychol. XI. 546.

defendant. n.—Defendant in error. See *error.

defender, n. 4. In Irish hiet., one of an association of Roman Catholies organized in the north of Ireland in the eighteenth century to finite, definitor (definitor), n. [L. definitor, < definite, define.] An officer in certain religious orders whose duty is to decide points of disciplina.

oppose the Protestants who had organized as Peep-o'-day Boys or Orangemen.

defenestration (dē-fen-es-trā'shon), n. [NL. defenestration, ', '*defenestrare, 'L. de, from, + fenestra, window.] The act of throwing out of the window: as, the defenestration of Prague in 1618, when Bohemian insurgents broke who meating of imperial commissioners broke up a meeting of imperial commissioners and threw two of their number out of the window, an act which preluded the Thirty Years' war.

Years' war.

defense, n.—Berlin or Prussian defense, in chess, the rejoinder 2... kt to kB3 to the king's Bishop's, opening. Also called King's Knight's defense.—Damiano defense opening. See *poening.—Defense to King's Knight's opening. See *poening.—Defense to King's Knight's opening. See *poening.—Italian defense, in chess, a variation of an antiquated defense to the king's Bishop's opening.—King's Knight's defense. Same as Berlin *defense.—Lopez defense, in chess, a variation arising in an antiquated form of the king's Bishop's opening.—Paulsen's defense, in chess, 5 kt.—K 5, B.—Kt 2, an original defense to the Kieseritzki gambit, invented by the German player Louis Paulsen.—Philidor's defense. See opening, 9.—Prussian defense. Same as Berlin *defense in the Ruy Lopez opening.—Queen's Bishop's Pawn's defense, in chess, 1 P.—K 4, P.—K 4; 2 B.—B 4, P.—QB 3. a defense to the king's Bishop's opening.—Statement of defense, a term sometimes used to denote the plea or answer of a defendant.—Two Knight's defense. See opening, 9.

Defensive circle, gland, proteid. See *cir-

Defensive circle, gland, proteid. See *cir-

cle, *gland, *proicid.
deferent, n. 3. In math., the locus of the centers of circles of which a bicircular quartic is drawn as the envelop.

oped hind legs to take enormous leaps.

Zool. Soc. London. 1900, p. 854.

deerhorn (dēr'hôrn), n. 1. The horn of a vas deferens.

deer; also, the bone which forms the antiers of a deer.—2. A large rough mussel, Tritigonia defervesce (dē-fer-ves'), v. i.; pret. and pp. or Unio verrucosa, found in the Mississippi river, the shell being used in the manufacture cere, \(\lambda e - \) for cease to boil; cool down; hence, to become more or less neglected or out of favor or regard.

defervescent (de-fer-ves'ent), a. and n. [L. defervescens (-ent-), ppr. of defervescere: see *defervesce.] I. a. Causing or associated with a reduction of fever.

II. n. A remedy employed to produce defervescence.

Defforges's pendulum. See *pendulum. defilade (def-i-lad'), n. [defile2 + -ade.] That arrangement of a fortification by means of which its interior is concealed from an adver-

sary on a neighboring height.

which its interior is concealed from an adversary on a neighboring height.

definition, n.—Constructive definition, definition by stating the essential requisites for constructing an object having the defined character. Such definitions have been highly valued in geometry, but they do not always conduce to sound or philosophical development of the subject.—Diagnostic definition, a statement which, without attempting to analyze the essence of the object of a general term, undertakes to show that it may be distinguished from everything else.—Genetic definition. (a) and (b). See genetic. (c) Definition by describing a process for producing the object defined. It is often confounded with the constructive definition, which is a species of genetic definition. Thus if as a definition of Prussian blue it were said to be the substance precipitated on mixing aqueous solutions of partially oxidized green vitriol and yellow prussiate of potassa, this would be a so-called genetic definition; but it would fail altogether to mention one of the essential characters to which the name is due. Less excussable is a method of defining abstract conceptions which has been highly favored by German writers since Kant. It consists in saying that if from some familiar conception certain enumerated ingredients are omitted, what remains is the conception intended. This is no definition, and serves no other purpose than to lead the reader to mistake a vague feeling for an intellectual description and to produce a false illusion of scientific accuracy.—Normal definition, a definition of a class of objects as differing only accidentally from a certain norm with a distribution of requency of given departures from it according to the law of probabilities.—Pragmatistic definition, a definition of a probable assumption as one which could safely be made the basis of a business enterprise.—Scholastic definition. See definition. Sen definition. Sen definition accuracy in the addition of a genum accuracy in the produce a false illusion of sevence of See *host2

Definitive host, sporoblast. *sporoblast.

definitize (dē-fin'i-tīz), v. t.; pret. and pp. definitized, ppr. definitizing. [definite + -ize.]

To make definite.

Hope and fear may be regarded as special forms of expectation. Expectation is indefinite. . . . Hope and fear definitise expectation.

W. Wundt (trans.), Human and Animal Psychol., p. 377.

deflate (dē-flāt'), v. t. [de- + -flate, as in inflate.] To remove the air from: the opposite of inflate.

deflation (dē-flā'shon), n. 1. The act of deflating.—2. In geol., denudation by the action of the wind bearing solid particles. Walther. deflectionization (dē-flek'shon-i-zā'shon), n. The act of deflectionizing; loss of inflections.

In Saxon this infinitive was a flexional one. It could not be otherwise, because there was no flexionless infinitive in the language. This variety then, which we call the Flat Infinitive, is a direct product of defectionization.

Earle, Philol. Eng. Tongue, ¶ 569.

deflectionize (de-flek'shon-iz), v. t.; pret. and pp. deflectionized, ppr. deflectionizing. [de-+ flection + -ize.] To subject to flectional decay; deprive of inflections.

Flectional languages are called Synthetic, and deflectionized languages are said to be Analytic.

Earle, Philol. Eng. Tongue, ¶ 445.

deflector, n. 3. In general, something which deflects. Specifically—(a) A plate or board which is projected into a current of gas or air to cause it to flow to one side. (b) A partition or surface, plane or curved, by which the flames or hot gases in a boiler-setting are compelled to follow definite paths. (c) A similar partition to force circulating water to rise or descend in a boiler in definite directions and places. (d) A cone or vane in a ventilating-hood. (e) A board placed outside of a carwindow, at right angles to the motion of the train, to keep smoke and cinders away from the open window.

4. See the extract. Another conspicuous advantage arising from the use of compasses of this pattern is the readiness with which they admit of correction by the use of the "deflector," a simple instrument devised by Lord Kelvin for the measurement of directive force, the successful application of which te compass correction depends on the fact that, when the directive force is equalized on all points, the error of the compass is neutralized.

Encyc. Brit., XXXI. 108.

deflexibility (dē-flek-si-bil'i-ti), n. [*deflex-ible (-bil-) + -ity.] Capability of being deflected.

deflocculation (de-flok-ū-lā'shon), n. [de-+
flocculation.] The reversal of the process of flocculation.] The rever flocculation (which see).

The removal of the finest particles from the surface soil is attributed to defloculation induced by the use of sodium nitrate, and followed by the washing of the finest particles into the subsoil. Nature, July 7, 1904, p. 238. deflorate (de-flo'rāt), v. t.; pret. and pp. deflorated, ppr. deflorating. [L. deflorare (pp. -atus): see deflower.] To strip of flowers; deflower.

deforence (dē-flō rens), n. [L. de- + flos (flor-) + -ence.] The fading out of the eruption of an exanthematous disease.

defness, n. A simplified spelling of deafness.
deforest (dē-for est), v. t. [de- + forest.]
Same as disafforest.

deform!, v. t., 1. (b) In geom., to bend without stretching or tearing.
deformation, n. 5. In bot., any malformation

or abnormal growth due to the attack of some parasite.—6. In geol., the process whereby, under the influence of strains (usually compressive), individual strata, masses of rock, or larger portions of the earth's crust suffer change of form, as when massive rocks become schistose, flat strata are folded, or mountain-ranges

deformational (de-for-mation; tending to produce deformation.

Several deformational movements had affected this district. Nature, Feb. 12, 1903, p. 359.

deformity, n.—Gun-stock deformity, displacement of the forearm following fracture of the humerus.—Silverfork deformity, the peculiar curve of the outline of the wrist characteristic of Colles's fracture of the lower end of

defraudation, n. 2. In Sp. law, the offense of fraudulently avoiding payment of a public

defrock (de-frok'), v. t. [F. défroquer; as de-Same as unfrock.

+ frock.] Same as unfrock.

defrost (de-frost'), v. t. [de- + frost.] To remove the effects of frost or freezing from; restore to a sound unfrozen condition or state. [Collog.]

Each year there is visible improvement in the methods of defroating meats in European markets. Frozen mutton from the antipodes and from Argentina reaches the retail butcher shop in better form and appearance than formerly.

Yearbook, U. S. Dept. Agr., 1896, p. 26.

An abbreviation of degree.

degelation (dē-je-lā'shon), n. [L. de-+ gelatio(n-), freezing.] Melting; tusion; the change from the solid to the liquid phase or state; liquefaction: opposed to congelation. N. E. D. degenerate, a. H. n. One who has retrograded from a normal type or standard, espe-cially in moral nature and character, and exhibits certain morbid physical and mental traits and tendencies.

That which nearly all degenerates lack is the sense of morality and of right and wrong.

Nordau, Degeneration, iii. 18.

degeneration, n. 5. A progressive departure of a family from the normal condition: shown in the first generation by a nervous temperament, moral depravity, and excesses; in the second by tendency to apoplexy and severe neuroses frequently with alcoholism; in the third by mental derangement, suicide, and intellectual weakness; and in the fourth by hereditary imbecility, deformities, arrested development, and sterility.—6. In geol., disintegration produced by weathering.—Addresses development, and sterility.—6. In geol., disintegration produced by weathering.—Adpose degeneration. Same as fatty degeneration.—Anemic degeneration. Same as polychromatophilic **degeneration.—Angiolithic degeneration atheroma with abundant calcareous deposit.—Ascending degeneration (a) Degenerative change in the spinal cord which progresses upward toward the brain. (b) Wallerian degeneration proceeding in a direction from the periphery toward the center.—Bacony degeneration. Same as lardaceous degeneration. Same as amyloid degeneration.—Comma degeneration. See **comma.—Cystic degeneration degeneration associated with the fornation of cavities or cysts in the part affected.—Descending degeneration. Wallerian degeneration advancing from the nerve-centers toward the periphery.—Earthy degeneration. Same as calcareous degeneration.—Fibrous

degeneration, overgrowth of the connective-tissue framework of a part, which compresses and causes atrophy of the functionating cells.—Gelatiniform degeneration. Same as colloid degeneration.—Keratoid degeneration, transformation of the plasma of the cell into keratin.—Method of degeneration, in math., a method of obtaining results by letting one dimension vanish.—Partial reaction of degeneration, in method of obtaining results by letting one dimension vanish.—Partial reaction of degeneration in a muscle under direct galvanic stimulation, with preservation of normal reaction in the nerve supplying this muscle. See reaction of degeneration, under reaction.—Physiological degeneration, under reaction.—Physiological degeneration, the atrophy of certain cells or tissues or organs that others may attain to perfect development. Brinton, Basis of Social Relations, p. 82.—Polychromatophilic degeneration, a condition of the red corpuscles of the blood, which is characterized by a simultaneous affinity of the cells for more than one dye, namely, for a basic as well as an acid dye.—Quain's degeneration, fibrous degeneration occurring as a result of catabolic changes in the aged.—Virchow's degeneration. Same as lardaceous disease (which see, under lardaceous).

Degenerative juncture. See *juncture. degerm (dē-jerm'), v. t. [de- + germ.] To extract or remove the germ from. See deger-

After de-germing, the maize is unhusked, wetted, submitted to a temperature sufficient to rupture the starch cells.

Encyc. Brit., XXVI. 363

deglaciation (dē-glā-shi-ā'shon), n. [de- a glaciation.] The withdrawal of ice from a previously glaciated region. Dana, Manual of Geol., p. 969.
deglutible (dē-glō'ti-bl), a. [NL. *deglutibilis, < L. deglutire, swallow: see deglutition.] Capable of being swallowed

ble of being swallowed.

deglycerinize (dē-glis'e-rin-īz), v. t.; pret. and pp. deglycerinized, ppr. deglycerinizing. [deglycerin + -ize.] To separate the glycerin from (a fat or oil) before using the fatty acids for the manufacture of soap. Sadtler, Hand-

for the manufacture of soap. Sadtler, Handbook of Indust. Chem., p. 71.

degradand (deg'ra-dand), n. [ML. degradandus, fut. pass. part. of degradare, degrade: see degrade.] One who is to be degraded or reduced in rank. R. W. Dixon, Hist. Church of Eng., iv. 494. N. E. D.

degradation, n. 10. In organic chem., the resolution of the molecule of a compound into other substances of smaller melecular weight.

other substances of smaller molecular weight. It denotes the systematic elimination of one carbon atom after another from a compound, whereby we pass down a homologous series, step by step, from the more to the less

A method of preparation of aldehydes and the systematic degradation of acids.

Nature, March 24, 1904, p. 504.

Degradation of energy, in thermodynam, the transformation of energy from higher, or more available, to lower, or less available, forms. The most important case is that of the degradation of kinetic or potential energy into heat. The general doctrine of the degradation of energy is that the processes of nature are in general such as to convert energy from available to unavailable forms, so that the degraded forms, such as heat, constitute a greater and greater proportion of the total energy of the universe. Differential degradation, in geol., the varying degrees of erosion exhibited by a series of stratified rocks of different degrees of hardness and resistance.

degradator (degrada doron), n. [NL., < ML. degradare, degrade.] One who degrades; one who formally and with authority deprives of rank. R. W. Dixon, Hist. Church of Eng., iv. 494. N. E. D.

degrade, v. t. 8. In thermodynam., to convert from a form of greater to one of less availability: said of certain transformations of energy. degraded, p. a. 5. In geol., worn down; leveled by erosion.—6. In thermodynam., reduced to a form less available for further transformation: said of energy which as the result of transformations has been converted into heat. dégraissant (dā-grā-sāń'), n. [F., prop. ppr. of dégraisser, remove the grease from, \(\lambda de-\) dé-taisse, grease: see degrease.] Sand, or the like, mixed with potters' clay, to prevent it from cracking when fired.

dégras (dā-grā'), n. [F., for *degrais, \(\lambda degraisser, \) degrease: see degrease.] A thick grease obtained as a by-product from wool, and also in the manufacture of some kinds of

and also in the manufacture of some kinds of leather.

Dégras, which has been referred to in connection with the woolen industry as being obtained from wool grease, is also a by-product of great value in the leather industry, and a great demand for this material for currying purposes has led to the manufacture of it as a special industry.

Sci. Amer. Sup., Dec. 6, 1902, p. 22518.

dégras-former (da-grä'fôr'mer), n. A substance of brown color and resinous consistence, a constituent of tanners' dégras and sod-oil, the presence of which enables the fish-oils used in currying leather and in oil-tanning to form an emulsion with water.

degreasing (de-gre'sing), n. The act or pro-

cess of removing grease from a greasy object; specifically, the removal of fatty matter from raw sheep's wool by the solvent action of petro-leum naphtha. Sadtler, Handbook of Indust. Chem., p. 310.

leum naphtha. Sadtler, Handbook of Indust. Chem., p. 310.

degree, n.—Baumé degree, a degree of the Baumé scale of specific gravity. See *scale3, n.—Decimal degree. See *decimal.—Degree of an equation. See degree, 7.—Degree of a surface, the order of a surface. See *scale3, n.—Decimal degree, 7.—Degree of freedom. (a) See freedom. (b) In phys. chem., the number of conditions of a thermodynamic system which can be changed independently of each other, without destroying the system by suppressing one of its phases. For example, a system composed of water existing in the two phases, liquid and solid, and depending for equilibrium on the two conditions, temperature existing in the two phases, liquid and solid, and depending for equilibrium on the two conditions, temperature and pressure, has one degree of freedom and only one: any desired temperature may be given to it within certain limits, but the pressure is thereby fixed; and any pressure may be established within certain limits, but the temperature is determined in so doing.—Degree of saturation. See *saturation.—Degrees of frost. See *frost.—Geothermic degree, the ratio between depth in the earth and increase of temperature equivalent to one degree. After passing below the outer zone of variable seasonal temperature, the usual ratio, as ascertained by data from deep wells and mine-shafts, is from 55 to 60 feet in depth to 1° F. Dana, Manual of Geol., p. 257.—Lambeth degree, a degree given by the archibiahop of Canterbury. Although he can confer all degrees given by the two universities, the graduates have many privileges not shared by the recipients of his degrees. Bouvier, Law Dict.—Mercury-in-glass degree, a degree of the thermometric scale in which equal relative expansions of mercury in glass, as in the ordinary mercury thermometer, are taken to mark equal differences of temperature is not strictly uniform.—Number of degree, in hygrom, the difference between the temperature of the air and the dew-point.—Platinum degree, a degree of the thermometer, does no

dehair (dē-hār'), v. t. [de- + hair.] To remove the hair or wool from, as hides or skins. Modern Amer. Tanning, p. 37.

cern Amer. Lunning, p. o..

dehalogenize (de-ha-loj'e-niz), v. t.; pret. and pp. dehalogenized, ppr. dehalogenizing. [de-+halogen + -ize.] In chem., to deprive of one or more of the halogens chlorin, bromine, iodine, etc. Jour. Soc. Chem. Industry, II. 171.

dehematize (dē-hem'a-tīz), v. t.; pret. and pp. dehematized, ppr. dehematizing. [Also dehæmatize; ζ L. de-, from, + Gr. aiμα(τ-), blood, + -ize.] To deprive of blood, either locally, by compression or the use of the Esmarch bandage, or generally, as in the 'salt frog'; render exsanguine. Med. Record, March 7, 1903, p. 362. dehemoglobinize (dē-hem-ō-glō'bi-nīz), v. t.; pret. and pp. dehemoglobinized, ppr. dehemoglobinizing. To remove from the red blood-corpuscles their characteristic coloring matter,

dehorn (dē-hôrn'), v. t. [de-+horn.] 1. To remove the horns from (domestic cattle). Two tools are used in the operation, a saw and a clipper. The saw has a narrow web held in a frame and resembles a butcher's saw; the clipper has a chisel-shaped knife which moves in guides and is operated by a rack and segments controlled by a pivoted handle.

2. To saw off the ends of logs bearing the own-

the hemoglobin. Jour. Tropical Med., Nov. 2, 1903, p. 337.

er's mark and to put on a new mark. tucky.]

dehorner (de-hôr'-ner), n. [dehorn + -er¹.] An instrument dehorner for cutting off the horns of cattle. Dehumanized virus.

dehydracetic (dē-hī-dra-set'ik), a. [de-+hydr(ogen) + acetic.] nyar(open) + acetic. 1 Noting an acid, a colorless compound, CH₃COCH. COCH: C(CH₃)OCO, pre-pared by the pro-longed boiling of ethyl acetoacetate (acetoacetic ether).

Dehorner.

(acetoacetic etner).

It crystallizes in rhombic needles or plates, melts at 108.5-109° C. and boils at 269.9° C. dehydrocholalic (dē-hi*drō-ko-lal'ik), a. [de-hydro(gen) + cholalic.] Noting an organic acid, C₂₄H₃₄O₅, obtained on oxidation of cholalic acid.

dehydrogenate (dē-hī'drō-jen-āt), v. t.; pret. and pp. dehydrogenated, ppr. dehydrogenating. [de- + hydrogen + -ate².] Same as dehydro-Same as dehydro-

dehydromorphine (dē-hī-dr ϕ -m δ r'fin), n. [dethe hydro(gen) + morphine.] A colorless compound, $(C_{17}H_{18}O_3N)_2$, contained in opium and prepared artificially by the oxidation of morphine. It crystallizes with $3H_2O$ and decomposes without melting. Also called pseudomorphine and oxymorphine.

dehypnotize (dē-hip'nō-tīz), v. t.; pret. and pp. dehypnotized, ppr. dehypnotizing. [de-+ hypnotize.] To awaken from the hypnotic state. notize.] To awaken from the hypnotic state. deicidal ($d\bar{e}'$ i-si-dal), a. [deicide + $-al^{1}$.] Of or pertaining to the slaying of a god. P. J. Bailey, Festus. N. E. D. deictic, a. 2. Demonstrative.

The augment seems to have been originally a pronominal sictic particle.

Encyc. Brit., XXXI. 676.

deindividualization (de-in-di-vid "ū-al-ī-zā'shon), n. Destruction of individuality; hence, social process destructive of individuality and self-dependence, and creative of dependence or pauperism.

There are social causes of deindividualization and desocialization.

Giddings, Inductive Sociol., p. 263.

There are social socialization. Giddings, Inductive sociol, p. socialization. The seventeenth and the seventeenth and the seventeenth and coarser body and ruder decoration than other coarser body and ruder decoration than other socialization. The seventeenth and the s

The degraded are those who are both deindividualized and desocialized. They have lost both social instinct and self-respect. Giddings, Inductive Sociol., p. 263.

Deiphon (de'i-fon), n. [NL.] An aberrant genus of trilobites, with the two lateral lobes of the entire animal much reduced and modified. The glabellum is globular and the fixed cheeks produced as long curved spines at the base of which are the eyes. The thoracic segments are nine and their pleura are entirely separated from each other; the pygidium is small and bears two pairs of curved spines. It is of Silu-

deipotent (dē-ip'ō-tent), a. [L. deus, god, + potens, having power.] Possessing divine power.

But Paul denounced a curse deipotent Against him. W. C. Wilkinson, Epic of Paul.

Deister sandstone. See *sandstone. dejectile (dē-jek'til), n. [deject + -ile.] A missile hurled down upon an enemy. dejection, n. 6. In geol., volcanic debris; a sediment of volcanic origin. dejector (dē-jek'tor), n. A medicinal agent which tends to produce evacuation of the howeles an energint

déjeuner, n. 2. A breakfast service, usually consisting of a tray, cups and saucers, tea-pot, sugar-bowl, cream-jug, and slop-basin.

dekarch, dekarchy, n. See *decarch, *de-carch, *de-ca

del³, n. A simplified spelling of dell¹.

del³, n. A simplified spelling of dell¹.

Del. An abbreviation (a) of Delaware; (b)

[l. c.] of delegate.

[*delabrate*]

ing the lips or edges removed: applied to volcanic craters of which the walls have been partly destroyed.

delaminate (dē-lam'i-nāt), v. i.; pret. and pp. delaminated, ppr. delaminating. [NL. delaminate (pp. -atus), < L. de- + lamina, a thin plate of metal: see laminate.] To split into separate layers or plates: used in embryology of the formation of the embryonic layers when one is derived from the other by splitting. and not, as usual, by invagination or cell-migration. plate of metal: see laminate.] To split into separate layers or plates: used in embryology of the formation of the embryonic layers when one is derived from the other by splitting, and not, as usual, by invagination or cell-migration. delaminate (dē-lam'i-nāt), a. [NL. delaminatus, pp.] Formed by splitting off from a layer or plate: said of the formation of the

Africa and the Zambesi. The seeds are used as food, and from the leaves mats are made. See palmyra, 1, and Borassus.

delectus (de-lek'tus), n. [L. delectus, a selection, \(\) deligere, select: see delectus personæ.]

A graduated selection of passages from Latin or Greek authors, usually with notes and a woosbulery fortsprekting by taked here here.

vocabulary, for translation by school-boys: as, a Latin delectus; Valpy's Greek Delectus. delegant (del'ē-gant), n. [L. delegans (-ant-), pp. of delegare, assign: see delegate, v.] In

assigns to his creditor a debt of a third party due to himself.

delegate, n.— Apostolic delegate. See *apostolic delegate (del-e-gā-tē'), n. [delegate + \cdot ee¹.] In $civil\ law$, the assignee of a delegant; one to whom a debtor is assigned in satisfaction of another's debt. See *delegant.

delegator (del'ē-gā-tor), n. [LL. delegator, < L. delegare, delegate.] In civil law, same as

delestage (de-les-täzh'), n. In French marine law, the throwing overboard of ballast.

Delezinier's base. See *base².

Delezinier's base. See *buse².

delf², n.—Brislington delf, stanniferous falence made at Bristion, near Bristol, England, in the eighteenth century. It is of coarse body and yellowish enamel and is frequently decorated with crudely painted copper-luster designs.—Bristol delf, stanniferous falence made at Bristol, England, in the eighteenth century, in imitation of Dutch delf, but possessing a body sufficiently hard to resist a steel point.—Lambeth delf, tin-enameled pottery produced at Lambeth, London, England, in the seventeenth century, in imitation of the delf ware of Holland. It is of a harder and denser paste than the Dutch product, and the blue color used in the decoration is of a paler tint.—Liverpool delf, tin-glazed pottery made at Liverpool, England, during the first half of the eighteenth century, in the manner of Holland delf. The decorations were frequently printed. The body is quite hard and of a pinkish tint.—Staffordshire delf, stanniferous enamel produced at several places in Staffordshire, England, in the seventeenth and eighteenth centuries. It was of a coarser body and ruder decoration than other English delf.

Delicate long-sting, an American braconid parasite.

[L.] In civil and Scots law, see delict.

deligate (del'i-gat), v. t.; pret. and pp. deligated, ppr. deligating. [L. deligatus, pp. of deligare: see deligation.] To tie off; apply a ligature to. N. E. D.

delime (de-lim'), v. t.; pret. and pp. delimed, ppr. deliming. [de- + limel.] To remove lime from, as skins. Modern Amer. Tanning, p. 50.

delimit. v. t.—Delimiting anywar a curre which seen.

delimit, v. t.—Delimiting curve, a curve which separates two regions of the surface upon which it is drawn.

delimitate (de-lim'i-tat), v. t.; pret. and pp. delimitated, ppr. delimitating. To determine and lay down the boundaries of; delimit.

delimitation, n. 2. In bot., same as *abjunction.

delimitative (de-lim'i-ta-tiv), a. [delimitate + -ive.] Having power to delimit: as, a delimitative commission has been named.

delineative (de-lin'e-a-tiv), a. [delineate + -ive.] That serves to delineate; of or pertaining to delineation.

When, however, we encounter delineative elements or subjects employed in ornamental offices, we may reason-ably assume that ideas were associated with them, that they were symbolic. 20th An. Rep. Bur. Amer. Ethnol., 1898-99, p. 65.

Del. An abbreviation (a) of Delaware; (v) delint (de-lint'), v. t. [ac-+ tint.] To remove the fiber, or lint, from cotton or similar seeds. Deltentosteus (del-ten-tos'tē-us), n. [NL., ζ (L. de-+ labrum, lip, +-ate1) +-ed².] Having the lips or edges removed: applied to volong the lips or edges removed: applied to volong the seed of the fiber, or lint, which remain on the cotton-seed after the fiber of lints. The fiber of lints are linter to the fiber of lints are linter to the fiber of lints. The fiber of lints are linter to the fiber of lints are linter to remove the fiber of lints are linter to remove the fiber of lints. The fiber of lints are linter to remove the fiber of lints are linter to remove the fiber of lints. The lints are linter to remove the fiber of lints are linter to remove the fiber of lints. The lints are linter to remove the fiber of lints are linter to remove the fiber of lints. The lints are linter to remove the fiber of lints are linter to remove the fiber of lints. The lints are linter to remove the fiber of lints are linter to remove the fiber of lints are linter to remove the fiber of lints. The lints are linter to remove the fiber of lints are linter to remove the fiber of lints are linter to remove the fiber of lints. The lints are linter to remove the fiber of lints. The linter lints are linter to remove the linter to remove the linter to remove the lints are linter to remove the linter to remove the

tantly mutters to himself.

deliverance, n.—Second deliverance, in Eng. law, a writ by which a plaintiff in replevin, having lost his suit by default or nonsuit, could have the same distress again delivered to him upon giving the same security as before.

delivery, n. 11. In a cotton-mill, the quantity layer or plate: said of the formation of the endoderm in certain collenterate embryos.

deleb (del'eb), n. [Ar.; cf. dolb, plane-tree.]

A variety of the palmyra-palm, Borassus flabellifer, distributed from Senegambia through the Sudan and Central Africa to German East Africa and the Zambesi. The seeds are used as food, and from the leaves mats are made. See palmyra, 1, and Borassus.

delectus (dē-lek'tus), n. [L. delectus, a selection, \(\) deligere, select: see delectus personæ.]

A graduated selection of passages from Latin or Greek authors, usually with notes and a vocabulary, for translation by school-boys: as, a Latin delectus; Valpy's Greek Delectus.

delegant (del'ē-gant), n. [L. delegans (-ant.), pp. of delegare, assign: see delegate, v.] In civil law, a debtor who, to discharge his debt,

chamber into which a liquid is thrown by pumps and from which it is delivered to any desired point.

delivery-pipe (dē-liv'ér-i-pīp), n. The pipe through which liquids pass away, or are ejected, from a pump; a discharge-pipe. dellenite (del'en-īt), n. [Dellen, in Sweden,

In petrog., a name proposed by (1896) for rocks intermediate in Brögger composition between dacite and rhyolite. Dellenite is a porphyritic or non-porphyritic aphanitic rock, characterized by nearly equal amounts of potash feldspar and lime-soda feldspar, with quartz and subordinate amounts of other minerals.

Delsartian (del-sär'ti-an), a. Of or pertaining to François Delsarte (1811-1871), a French musician, or to a method of developing bodily grace and strength founded by him.

delicatessen (del-i-ka-tes'en), n. pl. [G., < F. delt, pp. A simplified spelling of dealt.

delicatessen (del-i-ka-tes'en), n. pl. [G., < F. delt, pp. A simplified spelling of dealt.

delicatessen (delicat, delicate.] Delicacies;
delicate or dainty articles of food. implying, in
German use, sausages and the like.
delictum (de-lik'tum), n.; pl. delicta (-ta).

[L.] In civil and Scots law, see delict.
deligate (del'i-gat), v. t.; pret. and pp. deliaated, ppr. deligating. [L. deligatus, pp. of
action of the light of the nature of a delta.
delta-plain (del'ta-plain), n. The nearly level lowland portion of a delta, above water. R.
D. Salisbury, Geol. Surv. of New Jersey, 1892, p. 101.

delta-plateau (del'tä-pla-tō'), n. plain; a delta formed at the front of a regional glacier.

For such topographic forms Professor Davis long since proposed the name of delta-plain or delta-plateau, instead of sand-plain, a designation which has also been employed by many others, being both suggestive and descriptive.

Amer. Geol., Sept., 1903, p. 163.

delta-ray (del'tä-rā), n. See *ray1.
deltarium (del-tā'ri-um), n.; pl. deltaria (-ā).
[NL., \Gr. δέλτα, the letter Δ, + -arium.] In the telotrem atous

Brachiopoda, the deltidial plates, taken as a single feature; the covering of the delthyrium in these organisms: con-trasted with del-

SEE IN tidium and pseuSpirifer, showing the deltarium, D. do deltidium (After Hall and Clarke.)
(which a control of the brachioped of the brachioped (with the brachioped for the brachioped

Mediterranean. D. quadrimacutatus is the typical species.

delthyrial (del-thir'i-al), a. [delthyrium + -al1.] Of or pertaining to the delthyrium.

Delthyris (del'thi-ris), n. [NL. for *Deltathyris (referring to the pedicle aperture), \langle Gr. $d\ell\lambda ra$, the letter Δ , $+ \theta \nu \rho a$, a door.] A subgenus of Paleozoie brachiopods, having the general characters of the genus Spirifer, but with the surface of the shell covered with fine concentric lamellæ.—Delthyris limestone, in the orisurface of the shell covered with fine concentric lamellæ.— Delthyris limestone, in the original nomenciature of the New York rock formations, a term applied to a division of the Helderberg series, taking its name from the abundance of the brachlopod Delthyris or Spirifer; also known as the Delthyris shaly limestone and the Catskill shaly limestone. The present geographic designation of the formation is the New Scotland beds. delthyrium (del-thir 'i-um), n.; pl. delthyria (-ĕ). [NL. for *deltathyrium, ⟨Gr. δέλτα, the letter Δ, +θόριον, a little dopro! In

little door.] In the Brachiop-oda, the triangular pedicleopening in the cardinal area of the ventral valve, extending from the beak to the



hinge-line. It Spirifer, showing the may remain open (After Hall and Clarke.)

*deltidium, *deltidial plates, and *deltarium.

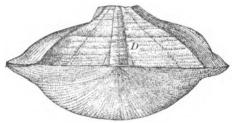
deltidial (del-tid'i-al), a. [deltidium + -all.]

Of or relating to the deltidium.— Deltidial plates, in the Brachiopoda, the two symmetrical plates which, in advanced forms (Telotremata), cover the delthyrial opening or delthyrium. These plates are a secondary structure, appearing late in the phylogeny of the class. They grow from the sides of the delthyrium and sometimes become coalesced



sides of the delthyrium and sometimes become coalesced along the median line at which they meet, forming a structure similar in appearance and function to the deltidium, but very different therefrom in origin, and known as the pseudodeltidium.—Deltidial tube, in certain extinct Brachiopoda, an incomplete tube or syrinx formed on the inner surface of the deltidium.—Seltidium.—A latidial of its constant of the constant of the deltidium.

deltidium (del-tid'i-um), n.; pl. deltidia (- $\frac{\pi}{1}$). [NL., \langle Gr. δέλτα, the letter Δ , + dim. -ιδίον.]



Deltidium

A brachloped (Derbya Cymbula) showing the deltidium, D. (After Hall and Clarke.)

In the Brachiopoda, the convex or concave single plate which covers the delthyrium or single plate which covers the deitnyrium or pedicle-passage. In the embryo this appears as a single plate on the dorsal side before the development of the ventral valve, with which it finally becomes fused (see prodeltidium), and characterizes certain of the Protremata; but in all advanced forms (Telotremata) the deltidium is absent, being replaced by the deltidial plates.

Deltistes (del-tis'tēz), n. [NL., < Gr. δέλτα, delta, + term. -ιστης.] A genus of suckers of the family Catostomidæ, found in the lakes of southeastern Oregon characterized by very

of southeastern Oregon, characterized by very strong jaws and triangular teeth in the phar-ynx. D. luxatus is the typical species.

ynx. D. tuxatus is the typical species. deltoid. I. a.—Deltoid dodecahedron. See *dodecahedron.—Deltoid eminence, that part of the humerus where the deltoid muscle is attached.—Deltoid plates, in the blastoid Echinodermata or Blastoidea, the triangular interradial plates lying at the summit of the

II. n. 2. In zoöl., a deltoid plate.—3. In math., a symmetrical quadrilateral with a diagonal as axis.

Delusion of grandeur, insane belief in one's own importance, wealth, social rank, etc.—Delusion of negation, insane belief that some part of the body is lacking.
—Delusion of persecution, insane belief that one is being pursued, watched, or slandered by secret enemies.

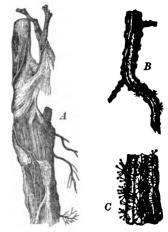
Delusional insanity. See *insanity. Dem. An abbreviation (a) of Democrat; (b)

of Democratic.
demagnetizer (dē-mag'net-ī-zer), n. One who
or that which removes magnetic polarity, or which causes something to cease to exert magnetic attraction; specifically, a device for removing any polarity or tendency to exert magnetic attraction from articles which have touched or have been in the sphere of action of an electromagnet, as in chucks or clutches or lifting-apparatus where the grip has been by magnetic action. Demagnetization is usually effected by frequently reversing the polarity of the demagnetizing mass, while the object to be demagnetized is gradually withdrawn from the influence of that mass; or the object, if small, may be rapidly revolved in the radius of action of a mass of fixed polarity, and then gradually withdrawn while so revolving.

demand, n.—Reciprocal demand, the external demand for the products of one economic group induced by the demand of that group for the products of non-competing groups. Thus in international trade, through the tendency of imports to balance exports, one nation's demand for the products of other nations induces an equal reciprocal demand on the part of those nations for the products of the first nation. It was contended by Cairnes that this principle determines the relative valuation of products of groups within a nation when there is no free movement of labor and capital from group to group.—Stale demand or claim, in law, a claim or demand that has been allowed to lie dormant so long that although not barred by the statute of limitations, it is not looked upon with favor by the law. demand, n. - Reciprocal demand, the external de-

demareteion (dem'a-rē-tī'on), n. See damareteion.

through life or become closed in early life by the growth of the deltidium or, in secondary stages when the deltidium is absent, by the development of the deltidial plates. See **action of the deltidial plates. See **action of **deltidial plates, and **deltarium.** See **deltidial plates, and **deltarium.** Dematophora (dem-a-tof'ō-rā), n. [NL. (Hardemi-gross (dem'i-gross), n. An English coin of the deltidial plates, and **deltarium.** See **demi-gross (dem'i-gross), n. An English coin of the deltidial plates, and **deltarium.** Same as Demaneæ; the form now in use. **Dematophora** (dem-a-tof'ō-rä), n. [NL. (Har-tig, 1883), \langle Gr. $\delta \ell \mu a(\tau_-)$, a band, + - $\phi o \rho o \varsigma$, \langle



Dematophora necatrix.

A, a vine-stock affected by the fungus (after a prolonged stay in a moist chamber): B, a vine-root with rows of black sclerotia of the fungus exposed, and bearing bristle-like conditophores: C, portion of A after the formation of conditiophores: enlarged. (From Tubeuf and@mith's "Diseases of Plants," after R. Hartig.)

φέρειν, bear.] A genus of fungi of doubtful relationship occurring commonly as sterile strands or layers of mycelium parasitic on the straints of layers of inycenum parasitic on the roots of plants. It sometimes forms tuberous black sclerotia from which bristle-like conidionhores may arise bearing ovoid hyaline conidia. Viola has also described what he regards as a perithecial condition of the fungus. D. necatrix is the best-known form. It attacks the roots of the grape and *root-rot.

*aubernage and *root-rot.

demedication (dē-med-i-kā'shon), n. [de-+
medication.] See *cataphoretic demedication.

démélé (dā-mā-lā'), n. [F., < déméler, untangle,
separate, discuss, < dé-+ méler, mix: see mell,
mélée.] Contest; contention; quarrel; squabble: as, an unfortunate démélé with the cook;
a démélé with Russia.

demens un Asimpléed and line demélé demens un Asimpléed and line demens dem

demene, n. A simplified spelling of demesne.
dementholize (dē-men'thōl-īz), v. t.; pret. and
pp. dementholized, ppr. dementholizing. [de-+
menthol + -ize.] To deprive of menthol.—Dementholized oil, oil of peppermint from which the menthol has been removed.

démenti (dā-mān-tē'), n. [F., \(d\'ementir\), deny, \(d\'eachtarrow\) deny, ie.] The giving of the lie (officially); denial.

Dementia pracox, a form of insanity occurring at pu-berty.— Secondary dementia, a form of chronic demen-tia which follows repeated acute attacks.

Demerara crystals. See *crystal.

demeritorious (de-mer-i-tō'ri-us), a. [de-+ meritorious (with ref. to demerit).] Blame-worthy as well as destitute of merit: the opposite of meritorious: as, demeritorious conduct.

Let us start from a particular case. I sign what I know to be a malicious libel. I am, then, a malevolent liar. My conduct proves that I am neither benevolent nor truthful. I deserve blame, and my conduct is de-meritorious.

Leslie Stephen, Science of Ethics, p. 279.

demersal (dē-mer'sal), a. [Irreg. L. demersus, pp. of demergere, immerse, + -all.] Having so great a specific gravity as to sink in water: said of fish-eggs.

The eggs may be pelagic, i. e. so light as to float when laid, as in the Cod, Haddock, Turbot, Sole, &c., or demersal, i. e. so heavy as to sink to the bottom, as in the Herring.

Parker and Haswell, Zoology, II. 225.

demi-bateau (dem'i-ba-tō'), n. One of the two small boats which when united form a pontoon-boat. Also called demi-pontoon.

boat. Also called demi-pontoon.

demibranch (dem'i-brangk), n. [demi-+ Gr. βράγχιον, gill.] In lamellibranchiates, one of the two gills on either side. Philos. Trans. Roy. Soc. (London), 1903, ser. B, p. 151.

demi-brigade (dem'i-bri-gād'), n. A small brigade of the Napoleonic era, consisting of three battolions.

three battalions.

demi-column (dem-i-kol'um), n. Same as engaged column: used especially when about half the shaft is engaged in the wall.

demicontrafagotto (dem-i-kon'tra-fa-got'tō), n. [It.] A form of bassoon intermediate in size and pitch between the ordinary bassoon and the double bassoon.

demidolmen (dem-i-dol'men), n. A megalithic

table-stone resting with one end on one or two

the ground.

demi-gross (dem'i-gros), n. An English coin of the time of Edward III., of the value of two pence.

demi-kindred (dem'i-kin'dred), n. Persons related by either the paternal or the maternal blood.

demi-landau (dem'i-lan'dâ), n. A half-landau; a landaulet.

demilegato (dem'i-lā-gä'tō), a. IIt.: see deminemilegato (dem 1-1a-ga to), a. [It.: see demi-and legato.] In music, noting a style of perform-ance in which the tones in a phrase are slightly separated by a silence, but not enough to become fully detached. It is indicated

to become fully detached. It is indicated roughly by staccato marks and a sweeping curve. See cut (a) under staccato. demilitarize (dē-mil'i-ta-rīz), v. t.; pret. and pp. demilitarized, ppr. demilitarizing. [de-+militar-y+-ize.] To convert from a military to a civil form of government; place under civil jurisdiction. N. E. D. demilitarized, market (demilitarized), n. [F., < demilitarized), demi-monde.] A member of the demi-monde. N. and Q., May 27, 1905, p. 418. demineralization (dē-min" e-ral-i-zā'shon), n. [demineralize+-ation.] Loss of mineral constituents: noting a process which occurs in constituents: noting a process which occurs in

softening of the bones (osteomalacia). Med. Record, June 27, 1903, p. 1047.
demi-piquet (dem-i-pek'), n. A saddle with a peak about half as high as that of the military

His rider occupied his *demipique*, or war-saddle, with an air that showed it was his familiar seat.

Scott, Legend of Montrose, if.

demi-plate (dem'i-plat), n. In Echinoidea, one of the ambulacral plates which are cut off from the median suture by the union of adjoining plates behind. Lankester, Treatise on Zool., III. 288.

demi-pontoon (dem'i-pon-tön'), n. Same as *demi-bateau.
demi-season (dem-i-sē'zn), a. Intermediate, as

in style, etc., between two seasons: as, a demi-season costume. N. E. D. demi-semi (dem-i-sem'i), a. Half of a half: ap-

demi-semi (demi-sem'i), a. Half of a half: applied contemptuously to a person (or thing) of no particular account or consequence: as, a demi-semi statesman. N. E. D. demisemiquaver, n.—Half demisemiquaver. Same as hemidemisemiquaver. demit (dē-mit'), n. An act of demission or transfer in the properties of the seminary of the seminar

transfer of membership, as from one masonic lodge to another; also, the letter which officially certifies to such a transfer.

demi-tasse (dem-i-tass'), n. [F., half-cup.] A small cup, as of coffee served after dinner. democentric (dem-ō-sen'trik), a. Characterized by the idea that the people to which an individual belongs forms the center of the uni-

The heliocentric system was expanded out of an antecendent geocentric system, itself the offspring of a democentric system, which sprang from an earlier ethnocentric system born of the primeval egocentric cosmos of inchoate thinking.

W. J. McGee, Rep. Bur. Amer. Ethnol., 1897-98, p. 831.

democratic, a.—Social Democratic Federation.

See *federation.

demodectic (dem-ō-dek'tik), a. [Erroneously formed from Demodex.] Of or pertaining to Demodex.—Demodectic acartasis, a slowly spreading, not highly contagious infection of the hair-follicles with the hair-follicle mite (Demodex folliculorum). The best known and most dangerous variety of the disease is that which occurs in dogs. The bovine variety causes considerable injury to the hide, lowering its market value. In man demodectic acartasis is rather common, but rarely of importance. Other varieties occur in horses, goats, and sheep. Also called follicular mange.

demodicid (dem-ō-dis(id), n, and a. In. A

demodicid (dem-ō-dis'id), n. and a. I. n. A member of the family Demodicidæ.

II. a. Having the characteristics of or be-

demogenic (dem-ō-jen'ik), a. [Gr. δῆμος, the people, + -γενής, -producing.] Creative of a people organized on a civic basis, as distinguished from a tribe or group of tribes organized on a basis of kinship. Giddings, Prin. of Sociol., p. 74.—Demogenic sociology, that part of social science which is concerned with the social life of peoples which have outgrown the tribal state and have developed a civic organization.

demographically (dem-ō-graf'i-kal-i), adv. As regards vital and social conditions; with reference to demographic conditions.

Buénos-Ayres is a town which is altering demographi-cally in two very sensible ways; there is a rapidly increas-ing population, together with improving sanitary and medi-

cal conditions, indicated by a falling death-rate and a decrease in the percentage of still-born children.

Biometrika, Jan., 1904, p. 100.

Biometrika, Jan., 1904, p. 100.

demoid (dē'moid), a. [Gr. δημοειδής, ζ δῆμος,
the people (see demos), + εἰδος, form.] Characteristic of a region or period, or of a particular geological formation: applied to fossils
that are so common as to be typical.
demolitionary (dem-ō-lish'on-ā-ri), a. [demolition + -ary.] Tending to demolish or ruin;
destructive.

destructive.

destructive.

demological (dem-\(\bar{\phi}\)-loj'i-kal), a. Of or pertaining to demology or demography. Philos. taining to demology or demography. Philos. Trans. Roy. Soc. (London), 1895, ser. B, 186.

demology (dē-mol'ō-ji), n. [Gr. δῆμος, the people, + -λογία, < λέγειν, speak.] Demography; originally, vital statistics, now expanded in meaning to denote the statistical study of population in extent, density, and composition. Philos. Trans. Roy. Soc. (London), 1895, ser. B, 186, 783 186, 783,

5. In anthrop., a supernatural prodemon, n. demon, n. 5. In anthrop., a supernatural protector or helper. See manito and *nyarong.—Maxwell's demon, an imaginary intelligent agent assumed by Maxwell in a discussion of the second law of thermodynamics. The function of the demon was to open and close a gate or valve in a partition separating the two halves of a reservoir of gas in such a manner as to allow only particles of high velocity to pass through in one direction and those of low velocity in the other. The result would be that, without the expenditure of work the temperature of the gas would be raised on one side and lowered on the other, in contradiction of the second law of thermodynamics.

demonism, n. 2. Specifically, in anthrop., the belief in the existence of an intimate relation between a person and one or more supernatural beings who become his protectors and helpers. This form of belief includes the manito of the Algonkin, the nyarong of the Sea Dayak, and similar beliefs of many other tribes and peoples. Also called manitoism. Also daimonism.

The advantages of totemism are many, but most of them are social and benefit the special groups or the community at large. The hold that the manitu has on the individual consists in its personal relation: the man feels that he himself is helped, and I suspect this is the main reason why it supplants totemism. I believe Mr. Lang some years ago suggested the term manituism for this cult. If this name be not accepted I venture to propose the revival of the word 'daimon' $(\delta ai\mu\omega\nu)$ to include the manitu, nyarong, and similar spirit helpers, and 'daimonism' as the name of the cult.

Rep. Brit. Assn. Advancement of Sci., 1902, p. 743. The advantages of totemism are many, but most of

demonolatrous (dē-mon-ol'a-trus), a. Pertaining to or given over to demonolatry; devil-worshiping: as, demonolatrous tribes.

demonomaniac (de"mon-o-ma'ni-ak), n. insane person believed by others, or by himself, to be possessed by a devil.

For the demonomaniacs of a hundred years ago—be-lated representatives of mediaval mysticism, who typify the ancient form of paranola—are now substituted the modern paranolacs.

C. Lombroso (trans.), Man of Genius, p. 173.

demonomy, n. 3. The system of knowledge that pertains to human activities.

I use the term sociology to distinguish one of five coordinate sciences, esthetology, technology, sociology, philology, and sophiology; and I call all of these sciences demonstrate. demonomy.

J. W. Powell, Rep. Bur. Amer. Ethnol., 1898-99, p. lx.

demonophobia (dē'mon-ō-fō'bi-ā), n. [NL., ⟨Gr. δαίμων demon, + -φοβια, fear.] Fear of

demons; demonomania.
demonstrant (dē-mon'strant), n. One who
takes part in a public demonstration, as of

approval, hostility, or the like.
demonstration, n. 6. In Rom. law, the formal statement of the plaintiff's claim in presenting demonstration, n. 6. In Rom. Idw, the formal statement of the plaintiff's claim in presenting his case to the court: somewhat analogous to the 'declaration' of the common law.—Abstractional demonstration. See *abstractional.—Demonstration by continuous identification, a demonstration by continuous identification, a demonstration which assumes that phenomena are to be identified by those features which change indefinitely little in indefinitely short intervals of time.—Demonstration by extreme cases, a demonstration which proceeds by imagining limiting cases of the application of a principle assumed as general, as, for example, when the properties of a function are demonstrated by considering the cases in which one and the other variable becomes zero and becomes infinite.—Demonstration by limits, See method of limits.—Demorganian demonstration, a demonstration which virtually assumes that a collection to which it relates is finite.—Dilemmatic demonstration, a demonstration by enumerating all possible cases and by demonstrating the proposition for each possible case separately.—Formatian demonstration, a mode of demonstration applicable to a collection of objects, say the Ns, provided it has the following character: Let the vs be certain objects among the Ns, and let 'exhaustive step' be the designation of a definite mode of transition from one N to other Ns. Then, if the Ns be such that any N whatever can be reached by a finite number of exhaustive steps starting from some v, a Fermatian demonstration will be applicable, and will proceed upon this assumption. Thus, if Q be any quality possessed by every v and also possessed

by every N which can be reached by a single exhaustive step from another N that has the quality Q, the statement of this will be a Fermatian demonstration that every N has the quality Q.—Geminational demonstration, a demonstration by imagining a moving object suddenly to separate as if it consisted of two or more coincident objects which at a certain moment begin to move along separate paths so as to generate wholly distinct parts of a new place.—Generalizational demonstration, a demonstration made by demonstrating a proposition which includes the proposition to be proved as a particular case.—Projectional demonstration a demonstration which passes from imagining points or lines to imagining lines or surfaces through those points generated by the rectilinear motion of the former through a point; or which imagines the section of lines or surfaces by a plane, so as to give points or lines.—Pullational demonstration, a demonstration which supposes an object suddenly to begin to occupy a place of higher dimensionality, as when a particle occupying a mathematical point suddenly begins to occupy a continuously expanding spherical surface.

demonstrational (demonstration.

or pertaining to demonstration. demonurgy (de mon -er-ji), n. [Gr. δαίμων, demon, + έργον, work.] The practice of magic with the help of the devil or of demons.

demonymic (dem- \bar{o} -nim'ik), a. and n. [$\delta \bar{n} \mu o c$, the people, + $\delta \nu \nu \mu a$, $\delta \nu o \mu a$, name.] a. Bearing a name derived from the deme, township, to which one (who was an inhabitant of ancient Attica) belonged.

II. n. The name itself.

demophil (dem ζ-fil), n. [Gr. δημος, the people.

+ φίλος, loving.] A friend of the people.

N. E. D.

status and rights of a citizen or subject; loss of citizenship.—2. Same as *denaturization.

denaturalize, v. t. 4. Same as *denaturize.

The manufacture of denaturalized alcohol as a substitute for petroleum snirit.

On the "high mountain" where you [Gladstone] stand there is a demon, not of demagoguism, but of demophitism, that is tempting you sorely. T. W. Reid, Life of Lord Houghton, II. 253.

phism.] In petrog., the decomposition, disintegration, or weathering of rocks, as contrasted with their metamorphism or transformation into other rocks. Von Lasaulx.

demos, n. 3. In sociol., a people which has outgrown the tribal system and is organized on the basis of neighborhood and modes of cooperation instead of on the basis denaturization (de-na'tūr-i-zā'shon), n. [de-of blood-kinship; a social body which, since naturize + -ation.] 1. The act or process of blood-relationships are no longer important, denaturizing (as salt, in Germany, or seedincludes individuals of various lineages or nationalities. Giddings, Prin. of Sociol., p.

Demospongies, n. pl. 2. A class of Porifera consisting of the orders Carnosa, Tetractinellida, Halichondrina, Hadromerina, Dictyoceratina, Dendroceratina, and the Myzospongida. It is characterized by the rhagon type of canal system, and is the most widely spread group of sponges of the present day. It includes the most highly organized of the

demot (dē'mot), n. [Gr. δημότης, ζ δῆμος, the people.] A member of an old Attic deme, or hundred. Grote.

demote (dē-mōt'), v.t.; pret. and pp. demoted, ppr. demoting. [de-+ (pro)mote.] To reduce to a lower grade or class: opposed to promote: as, to demote a boy for falling behind in his studies.

demotic, a. 2. Pertaining to a people developed beyond the tribal stage and including individuals of various kindreds or nationalities. Giddings, Prin. of Sociol., p. 96.—3. Social.

It is convenient to denote the primary activities com-It is convenient to denote the primary activities com-prised in the domain of esthetology as pleasures, since they are largely physiologic in character, though, like other ac-tivities, chiefly demotic (or collective) in their manifesta-tions; and the activities may be classed as ambrosial pleas-ures, decoration, athletic pleasures or sports, games, and

. Powell, Rep. Bur. Amer. Ethnol., 1898-99, p. xii.

Demotic composition, the combination of various elements of age, sex, nationality, and race in a social population or people; a demos. The intermingling of elements unlike in organic constitution, in age, and in sex, and of elements bred of different parent stocks and having therefore unlike qualities and habits, may be called the demotic composition.

Because genetic and congregate aggregation must develop together a population always has a denotic composition.

Giddings, Prin. of Sociol., p. 96.

sition. Giddings, Prin. of Sociol., p. 96.

Demotic society, a society which has outgrown the tribal stage and which includes individuals of any lineage or kindred. Giddings, Elem. of Sociol., p. 190.

demotics (dē-mot'ikz), n. The scientific study of the common people; sociology.

demotion (dē-mō'shon), n. (de- + (pro)motion.] Reduction in rank or relative position in any series or class: opposed to promotion.

This regimentation (of the members of an Indian family or tribel is complicated by various factors, such as adoption, and (especially) what may be called promotion and demotion, i. e. advancement in "age" (rank) by common consent in recognition of prowess, etc., with correlative

reduction in "age" as the penalty for cowardice, etc., so that the actual age relations may be completely lost.

Smithsonian Rep., 1901, p. 75.

demotist (dē-mot'ist), n. [demot(ic) + -ist.]
A student of the ancient Egyptian form of writing known as demotic (which see).

Though demotic has not yet received serious attention at Berlin, the influence of that great school has made itself felt among demotists, especially in Switzerland, Germany, America, and England.

Encyc. Brit., XXVII. 726.

demurrant (dē-mer'ant), n. [demur + -ant1.] In law, a party to an action who puts in a demurrer.

demurrer-book (dē-mėr'ėr-būk), n. script containing a copy of all the pleadings in an action by which an issue of law, rather than of fact, has been joined.

of fact, has been joined.

demy, n. 5. The gold half-lion of 20 grains of Robert II. of Scotland, the lion itself weighing 40, or more usually 38, grains.

denar (de-när'), n. [G., < L. denarius: see denarius.] A money of account of Breslau: one pound equals 288 denars.

denaturalization (dē-nat'ū-raļ-i-zā'shon), n. [denaturalize+-ation.] 1. Deprivation of the status and rights of a citizen or subject; loss of citizenship. 2. Same as *denaturalization*

The manufacture of denaturalized alcohol as a substitute for petroleum spirit.

Encyc. Brit., XXXI. 13.

demophilism (dē-mof'i-lizm), n. [demophil + denaturant (dē-nā'tū-rant), n. [denature + -ism.] Love of the people; regard for the masses.

On the "high mountain" where you [Gladstone] stand ticular way. See *denaturization.

material in order to unite it for use in a particular way. See *denaturization.

m, denaturate (de-na'fū-rāt), v. t.; pret. and pp.
denaturated, ppr. denaturating. [NL. *denatusec *denature.] Same as *denaturize.

G. Lunge, Sulphuric Acid, II. 14.

n- denaturation (de-na-fū-rā'shon), n. [F. déand automatical acid denaturate + ion] Same as

naturation; as denaturate + -ion.] Same as *denaturization.

denature (de-na'tūr), v. t.; pret. and pp. de-natured, ppr. denaturing. [F. denaturer, < NL. "denaturare; as de- + nature.] Same as *denaturize

oils, in Spain); specifically, the addition to alcohol of something which renders it unfit for use as a beverage (thus exempting it, under special legislation, as in England, France, Germany, and the United States, from taxation), so as to permit its economical use as a fuel or in the manufacture of varnishes, chemicals, etc. Wood-spirit, naphtha, and Dippel's animal oil are among the materials most employed for the denaturization of alcohol, but others are used.

A term introduced by Neumeister to designate a change effected in the physical or chemi-cal properties of the albumins whereby they their individual characteristics and, coagulated, can no longer be dissolved in their ordinary solvents. Denaturization can be brought about by heat, acids and alkalies, the salts of the heavy metals, etc.

denaturize (dē-nā'tū-rīz), v. t.; pret. and pp. denaturized, ppr. denaturizing. [de- + nature + -ize.] To deprive (something) of its peculiar +-ize.] To deprive (something) of its peculiar nature; specifically, to treat (alcohol or other material) so as to render it unfit for use in one way while leaving it capable of being used in another. See *denaturization. Trans. Amer. Inst. Elect. Engin., 1898, p. 139.

Denbighshire grits. See *grit2.

dendo (den'dō), n. [Native name in Angola.]

An evergreen tree of the ebony family, Diospyros Dendo, native to western tropical Africa. It yields a very black hard wood known

rica. It yields a very black hard wood known commercially as black ebony or Niger ebony. dendra, n. Plural of *dendron.

dendraxon (den-drak'son), n. [Gr. δένδρον, tree, + ἀξων, axis.] A neuron, or nerve-cell, the axis-cylinder process of which branches off immediately into dendrites. Also spelled dendraxone.

dendrite, n. 3. In neurol., one of the protoplasmic processes of a nerve-cell: opposed to *neurite, the axis-cylinder. See cut at *neu-

dendritic, a. 3. In phys. geog., branching irregularly, in the form of a tree: as, dendritic drainage, streams, valleys.

The student should study also the well-developed den-itic drainage in Lebanon valley at the bottom of the ap. I. C. Russell, Rivers of North America, p. 204.

Dendritic cancer. See ★cancer.

Dendrohium

Dendrobranchiata (den'drō-brang-ki-ā'tä), n. pl. [NL.: see *dendrobranchiate.] A division of macrurous decapod crustaceans in which the branchial plumes are divided in an arborescent manner. It includes the Penæidæ and the Sergestidæ. Contrasted with Phyllobran-

the Sergestidæ. Contrasted with Phyllobranchiata and Trichobranchiata. Spence Bate.

dendrobranchiate (den-drō-brang'ki-āt), a. and n. [NL. dendrobranchiatus, < Gr. δένδρον, tree, + βράγχα, gills: see branchiate.] I. a. Having arborescent gills; of, or pertaining to, or resembling, the Dendrobranchiata.

II. n. One of the Dendrobranchiata.

Dendroceratina (den drö-ser-a-ti'na), n. pl. [Nl., ζ Gr. δένδρον, tree, +κέρας (κερατ-), horn, +-ina².] One of the two orders of ceratose sponges (the other being Dictyoceratina) havsponges (the other being *Incipoceratina*) having the spongin fibers dendritic, arising from a basal plate of spongin, and not anastomosing. It includes the family *Aplysillidæ*.

dendroceratine (den-drō-ser'a-tin), a. Resembling or pertaining to the *Dendroceratina*.

dendrochemical (den-drō-kem'i-kal), a. [Gr. distart F. sherical | Delatina to chamistre.

divolor + E. chemical.] Relating to chemistry as applied to the study of trees for industrial purposes: as, the dendrochemical laboratory of the Bureau of Forestry of the United States Department of Agriculture.

dendrodic (den-drō'dik), a. [Gr. δενδρώσης, same as δενδροειόης, tree-like (see dendroid), +-ic.] 1. Same as dendrodont.—2. Tree-like: -ic.] 1. Same as dendrodont.—2. Tree-like. said of ramifying structures seen in the sections of certain organs.

Dendroidea (den-drō-id'ē-ā), n. pl. [NL.: see dendroid.] A suborder of the graptolites characterized by tree-like mode of growth and differentiation of the zoöids and thece in budding, nourishing, and generative individuals. They extend from the Upper Cambrian into the Middle Devonian. Their most widely known genera are Dictyonema and Dendrograptus.

nema and Denarographiu.

dendrolatry (den-drol'a-tri), n. [Gr. δένδρον, tree, + λαιρεία, worship.] Tree-worship. Jour. Amer. Folk-lore, April-June, 1903, p. 132.

dendrolene (den'drō-lōn), n. [Gr. δένδρον, tree, + -l- + -ene.] A trade-name of a viscid petroleum product used to protect the bark of rees against insects.

dendron (den'dron),n.; pl. dendra (-drs). [NL., (Gr. δένδρον, tree.] Same as *dendrite, 3. dendrophil (den'drō-fil), a. and n. I. a. 1.

Tree-loving.—2. Dendrophilous.
II. n. A lover of trees.

dendrophilous (den-drof'i-lus), a. [Gr. δένδρον, tree, + φιλείν, love.] Tree-loving; pertaining to or characterized by an arboreal mode of

dendropsychosis (den'drop-si-kō'sis), n. [NL., \langle Gr. δενδρον, tree, $+ \psi \nu \chi \omega \sigma \iota c$, animation: see psychosis.] A supposed instinctive interest in trees, or impulse to climb trees: regarded as possibly a psychical vestige of prehuman life under arboreal conditions.

The significant fact is that most of both the childish animisms and also of these specialised dendropsychoses fall away or end completely at puberty.

G. S. Hall, Adolescence, II. 217.

Dendropupa (den-drō-pū'pā), n. [NL., ζ Gr. δένδρον, tree, + NL. Pupa, a genus of mollusks.] A genus of Carboniferous land-shells resembling Pupa but having no teeth in the aperture.

Dendrotrophe (den-drot'rō-fē), n. [NL. (Miquel, 1855), ζ Gr. δένδρον, tree, + τροφή, nourishment.] A genus of dicotyledonous plants, of the family Santalaceæ, often parasitic on trees. See Henslowia.

denegatory (dē-neg'a-tō-ri), a. [denegate + -ory.] Involving or implying a contradiction; contradictory: as, a denegatory declaration. Bentham.

denga (den'ga), n. [Russ. deniga.] A Russian densification (den'si-fi-ka'shon), n. The act copper coin of the value of half a copeck. or process of rendering dense.

deniga (den ga), n. [Luss. aeniga.] A Russian copper coin of the value of half a copeck.
denier², n. 2. A unit of weight in the French system, in use before 1812, equal to 193 troy grains.—3. A unit of weight for silk yarns,

dendrobe (den'drob), n. [NL. dendrobium.] A denitrate, v. t. 2. To remove the lower oxids of nitrogen from (nitrous vitriol), in the manufacture of sulphuric acid by the lead-chamber process, so that these oxids may not be lost, but returned to the lead-chambers.—3. To decompose (guncotton, nitroglycerin, or other nitric esters used as explosives), removing the nitric-acid radical and regenerating the cel-lulose. glycerin, etc., from which these were produced

denitration, n. 2. The process of removing the lower oxids of nitrogen from nitrous vitriol in making sulphuric acid. See *denitrate, 2.—3. The process of removing the nitric-acid radical from guncotton or other nitric esters, regenerating cellulose, etc. See *denitrate, 3.

denitrator (dē-nī'trā-tor), n. An apparatus for denitration.

denitration. denitration of nitric acid or nitrates, as certain ferments in the decomposition of nitrogenous organic matter.

action.

action.

denitrize (dē-nī'trīz), v. t.; pret. and pp. denitrized, ppr. denitrizing. [de- + nitr(ogen) + -ize.] Same as denitrate.

denizen, n. 3. In bot., a plant suspected to be of foreign origin. though behaving as if indigenous. H. C. Watson.

denkli (dengk'li), n. [Hind. dhenkli.] In India, a davice for raising water similar to the Egyp.

a device for raising water, similar to the Egyptian shadoof (which see).

The simplest and earliest form of water-raising machinery is the pole with a bucket suspended from one end of a crossbeam and a counterpoise at the other. In India this is known as the denkii or paecottal; in Egypt it is called the shadui.

Encyc. Brit., XXIX. 592.

Dennett grass. See *grass.
Dennettagrass. See *grass.
Dennettagrass.
Dennettagrass. See *grass.
Dennettagrass.
Dennettagrass. of numerous botanical works.] A genus of polypodiaceous ferns, of the tribe Davallier, with slender creeping rootstocks and delicate solitary twice or thrice pinnate fronds 2 to 6 feet high. The globose sorus is terminal, the sporangia borne within a special cup-shaped indusium which is more or less adherent on the exterior side to the reflexed segment of the leaf margin. There are about 20 species mostly tropical and subtropical; but one, D. punctilobula, the hay-scented fern, occurs in the United States and Canada. See Dicksonia.

denomination, n. 4. In any system of reck-oning, a class of units of one kind and having a specific name, as tens, hundreds, thousands, a special name, as tens, hundreds, thousands, etc., in numbers; dollars or cents in values; pounds, hundredweights, tons, etc., in expressing quantity; inches, feet, yards, miles, etc., in measures of length, etc.: as, an issue of paper money of small denomination.

denotive (de-no'tiv), a. [denote + -ive.] Serving to denote; denotative; specifically, denoting by means of arbitrary terms or by terms.

ing by means of arbitrary terms, or by terms which have no natural association with the idea expressed: opposed to connotive.

Among primitive peoples this denotive symbolism is not developed, and in lieu thereof an extensive and cumbrous system of connotive or associative symbols is employed.

Smithsonian Rep., 1892, p. xxiii.

denounce, v. t. 6. In diplomacy, to announce the intention of abrogating (a treaty) in accordance with its provisions or arbitrarily. lens, n. 3. In *entom.*, the terminal point of

dens, n. 3. In entom., the terminal point of a mandible.
dense, a. 6. In optics, having a large index of refraction; capable of transmitting light at a less velocity than the velocity of lightwaves in vacuo.

The investigation of glass-pot clays, therefore, is restricted to the determination of plasticity, shrinkage, densification temperature, fusion point, and chemical composition.

U. S. Geol. Surv., 1897-98, p. 428.

termining the density of samples of gunpowder.

density, n. 4. In photog., opacity of the developed film of a negative.—Density in phase, in statistical mech., the number of systems, in a very great ensemble of independent systems, which at a given moment have phases lying between specified (infinitesimal) limits.

The density-in-phase is constant in time for the varying phases of a moving system; provided, that the forces of a system are functions of its coordinates, either alone or with the time.

J. W. Gibbs, Statistical Mech., p. 9.

with the time. J. W. Gibbs, Statistical Mech., p. 9.

Dynamic density (of a population), the number of inhabitants per square mile taken in connection with their power to coöperate, as determined by concentration in cities and their means of communication.—Flux density, the lines of magnetic force per unit section, or the induction.—Magnetic density, the rate of distribution of lines of force in a magnetic field. The unit is the gauss or one c. g. a. line per square centimeter.—Optical density, the property by virtue of which transparent substances transmit light at velocities less than that of a light-wave in vacuo. Great optical density is associated with a large index of refraction, and vice versa: thus, glass is optically denser than water, and water than air.—Stem density density, the density of a gas or vapor, at a specified pressure and temperature, in terms of that of hydrogen, or sometimes of air, taken as a standard.

decomposition of nitrogenous organic matter.

—2. In bacteriol., any micro-organism which is capable of breaking down nitrates into ammonia compounds, or of liberating nitrogen from any of these.

denitrify, v. II. trans. In bacteriol., to break down nitrates into nitrites, and nitrites into ammonia compounds, or to liberate nitrogen from any of these compounds by bacterial from any of these compounds by bacterial dent. An abbrevier. cubic centimeters, used in accurate determina-tions of the density of gases. The globe is provided with a stop-cock sealed on the neck. M. W. Travers, Exper. Study of Gases, p. 121. lent. An abbreviation (a) of dental; (b) of

dent. An abbreviation (a) of dental; (b) of dentist; (c) of dentistry.

dental. I. a.—Dental arteries, arteries which supply the pulp-cavities of the teeth.—Dental follicle, furnace, etc. See *follicle, *furnace, etc.—Dental processes. Same as alveolar processes (which see, under alveolar).—Dental prosthesis, the supplying of missing teeth or parts of teeth by artificial substitutes.

II. n. 3. Dentex macrophthalmus, a fish of the family Lutianidæ, found in the Mediter-

ranean.

dentale (den-tā'lē), n.; pl. dentalia (-li-š).

[NL., neuter of L. dentalis, dental.] In ichth.,
the dentary; the tooth-bearing or anterior
bone of the lower jaw.

dentalize (den'tal-īz), v. t.; pret. and pp. dentalized; ppr. dentalizing. [dental + -ize.] To
convert (a sound) into a dental, such as d or t.

dentary-splenial (den "ta-ri-sple ni-al), n.
The fused dentary and splenial bones, or a
bone which takes the place of those two in

forming the jaw.

Dentate fascia. See *fascia.—Dentate fissure. Same as hippocampal fissure (which see, under hippocampal).
—Dentate gyrus. See *gyrus.—Dentate nucleus. Same as dentate body (which see, under dentate).

dentes. Plural of dens.

Denticete (den-ti-sē 'tē), n. pl. [L. dens, a tooth, + Gr. κῆτος (pl. κῆτη), a whale.] A sub-order of Cetacea containing the toothed whales. J. E. Gray, 1864.

denticle, n. 3. In the graptolites (Hydrozoa), one of the thecse. See *theca, 1 (d) (6). denticular (den-tik'ū-lār), a. Resembling small teeth; tooth-like; denticulate. denticulate-serrate (den-tik'ū-lāt-ser'āt), a. In bot., between dentate and serrate, with the teeth prove small dentate and serrate.

In bot., between dentate and serrate, when the teeth very small.

denticuliform (den-tik'ū-li-fôrm), a. [L. denticulus, denticle, + forma, form.] Having the form of a small tooth or denticle.

dentification (den-ti-fi-kā'shon), n. [L. dens (dent-), tooth, + -ficare, < facere, make.] The formation of tooth-substance or dentin.

Denticarous cost. See *cust.

Dentigerous cyst. See *cyst. dentinasal (den-ti-nā'zal), a. and n. (denti-), tooth, + nasus, nose: see nasal.] I. a. Dental and nasal: said of certain sounds, as the consonant n.

II. n. A dentinasal sound.

dentiparous (den-tip'a-rus), a. [NL. *dentiparus, < L. dens, tooth, + parere, produce.] arus, < L. dens, Producing teeth.

dentition, n.— Cheek dentition, the molar teeth: used chiefly by British writers.
dentology (den-tol'ō-ji), n. [L. dens (dent-), tooth, + Gr. -λογία, ⟨λέγειν, speak.] Same as

odontology.
dentonasal (den-tō-nā'zal), a. and n. An improper form for *dentinasal.

denucleate (dē-nū'klē-āt), v. t.; pret. and pp. denucleated, ppr. denucleating. [NL. *denucleare, < L. de, away, + nucleus, nucleus.] To deprive a cell of its nucleus. Also enucleate. grains.—3. A unit of weight for silk yarns, equal to about 8½ troy grains.

denier² (de-nēr²), v. t. To obtain the fineness or size of (a silk thread) in deniers.

denigrate (den'i-grāt), a. Blackened; turned black.

denitratation (dē-nī-tra-tā'shon), n. Same as densimetry (den-sim'e-tri), n. The use of the densimeter; specifically, the operation of deduced a region. J. Geikie, The Great Ice Age, p. 259.

denudation, n. 3. In surg., the state of a part which is deprived of its natural covering, as a bone of the periosteum.—Chemical denudation, in geol., the process of removing the material of the land in solution. I. C. Russell, Rivers of North America, p. 81.—Plain of marine denudation, plain of subacrial denudation. See *plain1.

denudationist (den - ū - dā ' shon - ist), n. denudationist (den - u - da snon - ist), n. One who emphasizes the influence of surface agencies in the production of relief forms, to the apparent neglect of deep-seated or subterranean agencies that may contribute to the same end

How much of a valley is due to original fracture and how much to subsequent erosion remains a matter of opinion. After all, h. s. argely a question of degree in most matters which are in dispute between the "convulsionists" and the "denudationists."

Athenseum, May 13, 1906, p. 596.

denudative (dē-nū'da-tiv), a. [denudate + -ive.] Of or pertaining to denudation; effective in causing denudation. [Rare.] Smithsonian Rep., 1899, p. 279.
denumeral (dē-nū'mg-ra-bl), a. Same as

denumeral (dē-nū'me-ral), a. Enumerable; numerable; countable; capable of being put into one-to-one correspondence with the class of all natural numbers in their usual order. Denumeral collection. Same as denumerable set. S

denumerantive (dē-nū'me-ran-tiv), a. [denumerant + -ive.] Pertaining to or like a denumerant. Sylvester.

merant. Sylvester.

denumerate (dē-nū'me-rāt), v. t.; pret. and pp.
denumerated, ppr. denumerating. [de- + numerate.] 1. To count off or enumerate.—2.
In math.: (a) To determine the number of individuals in a given class. (b) To determine
the denumerant of an equation.
denumeration, n. 2. In math.: (a) Counting
off, or enumeration. (b) The determination
of the number of individuals in a given class.
(c) In theory of equations, the determination
of the denumerant.
denumerative (dē-nū'me-ra-tiv). a. [denu-

denumerative (dē-nū'me-ra-tiv), a. [denumerate + -ive.] Of or pertaining to denumeration.

denunciation, n. 5. The act of denouncing a treaty

Denver group. See *group1.
deoperculate, a. 2. Having an operculum that does not spontaneously separate from the

sporophore, as certain mosses. deoxidator (de-ok'si-da-tor), n. An agent or apparatus for deoxidizing.

deoxidize, v. t.—Deoxidized bronze. See Tobin

deoxygenization (dē-ok'si-jen-ī-zā'shon), n. [deoxygenize + -ation.] Same as deoxygena-

deconization (dē-ō'zōn-i-zā'shon), n. [deozonize + -ation.] In chem., deprivation or removal of ozone: usually applied to its reversion to the condition of ordinary oxygen gas. Elect. World and Engin., Jan. 31, 1903, p. 205.

dep. An abbreviation (b) of department; (c)

of deponent.

depancreatize (de-pan'kre-a-tiz), v. t.; pret.
and pp. depancreatized, ppr. depancreatizing.
[de- + pancreas (-at) + -ize.] To deprive of
the pancreas by a surgical operation. Buck,
Med. Handbook, VIII. 39.

depart. An abbreviation of department. department, n.—staff department, one of the Bureaus into which the United States Department of War is divided. It includes the following: the Adjutant-General's, Inspector-General's, Judge-Advocate-General's, Quarternaster's, Subsistence, Medical. Pay. Engineer, and Ordnance Departments, and the Signal Bureau.

departmentalism (dē-pārt-men'tal-izm), n. [departmental + -ism.] Departmental methods

or usages.

department-store (de-part'ment-stor), n. large store or shop in which many different lines of retail business are carried on under one general management, such as the sale of fabrics, clothing, shoes, hats, jewelry, toys, household utensils, groceries, books, etc. [U. S.]

Known in America as "department stores," situated at points of special convenience for customers using the various traffic lines, and tending to the extinction of thousands of small retail establishments.

Encyc. Brit., XXXI. 219.

Departure in despite of court, in old Eng. law, failure of a tenant in a real action to reappear on demand after having once appeared and been present in court. Rapalje and Lawrence, Law Dict.

depasturage (dē-pas'ţūr-āj), n. [depasture + age.] Grazing; pasturage.

From Lammas to March the lands are subject to the epasturage of stock.

Encyc. Brit., XXVII. 169.

depauperation (dē-pâ-per-ā'shon), n. [depauperate + ion.] Impoverishment; depauperi-

deperition (dep-e-rish'on), n. [NL. *deperitio(n-), < L. deperire, waste away, < de, away, + perine, waste away, perish: see perish.] A wasting away. Benthum.

depetalize (de-pet'al-iz), v. t.; pret. and pp. depetalized, ppr. depetalizing. To deprive of petals; remove the petals from. U. S. Dept. Agr., Div. Veg. Pathol., Bulletin 5, p. 40.

dephased (de-fazd'), a. [de-+ phase + -ed^2.] In elect., out of phase.
dephlegmatory (de-fleg'ma-to-ri), a. Of or

dephlegmatory (de-fleg'ma-tō-ri), a. Of or pertaining to the removal of phlegm or watery matter from spirits and acids, or to the dephlegmator or condenser by which this is effected.

dephlogisticate, v. t. 2. In med., to reduce inflammation in.

Dephosphorisation process, a method of eliminating the phosphorus and sulphur from iron while converting it into steel. This is done by using magnesian limestone or dolomite, instead of the silicious ganister employed in the acid process, for lining the converter.

the acid process, for lining the converter.

depict, v. t. 3. In math., to represent; map.
depiction, n. 2. In math., representation; mapping: as, conformal depiction.

depictive (de-pik'tiv), a. [depict + -ive.] Having the quality of depicting or portraying; pictorial: as, the depictive character of Chinese writing. writing.

writing.
depicture (dē-pik'tūr), n. [depicture, v.] Portrayal; pictured representation; depiction.
depigment (dē-pig'ment), v. t. [de-+pig-ment.] To deprive of pigment.
depigmentation (dē-pig-men-tā'shon), n. [de-pigment + -ation.] The loss or removal of pigment; decolorization; more particularly, the loss of pigment by which the white race became differentiated from all others.

Such a climate perhaps directly produced, or, at any rate, favored, variation towards that lymphatism and depignentation that thus came to be characteristic of the race.

Jour. Polit. Econ., Dec., 1900, p. 81.

depigmented (de-pig'men-ted), a. [depigment + -ed².] Deprived of pigment. Buck, Med. Handbook, V. 485.
depigmentize (de-pig'men-tiz), v. t.; pret. and pp. depigmentized, ppr. depigmentizing. [de-+ pigment + -ize.] To cause loss of pigmentation in; decolorize. Lit. Digest, June 17, 1899, p. 699.
depilitant (de-pil'i-tant), n. [Irreg. assumed from depilatory, as if from a L. "depilitare. The proper form would be "depilant: see depilate.] In tanning, material used to swell or distend the fibers of a skin, thus loosening the hair-roots and enabling the tanner to remove the hair. C. T. Davis, Manuf. of Leather, p. 161. deplaster (de-plas'ter), v. t. [de-+ plaster.] deplaster (de-plas'ter), v. t. [de-+ plaster.]
To purify (wines that have been treated with gypsum) by the removal of the plaster.

gypsum) by the removal of the plaster. See plaster, v. t., 5.

deplenish (dē-plen'ish), v. t. [de-+ plenish.]

1. To empty; deplete: as, to deplenish one's purse.—2. To dispose of the plenishing of; displenish: as, to deplenish one's home.

deploy, v. i. 2. To spread out, as the lower end of a valley glacier which extends out on a plain. Chamberlin and Salisbury, Geol., I. 241.

depolymerization (dē-pol'i-mer-ī-zā'sbon), n.

In chem., separation of a more complex molecule into two or more simpler ones which cule into two or more simpler ones which are similar to each other, as the separation of one molecule of trioxymethylene into three of simple formic aldehyde.

simple formic aldehyde.

deposit, n.—Active deposit. See *active.—Concentration deposit, an accumulation of ore formed by the leaching of overlying or adjacent rock, the removal of disseminated matter in solution, and the precipitation of it in an enriched body. Contrib. to Econ. Geol., U. S. Geol. Surv., 1902, p. 241.—Deposit warrant. See *wearrant.—Clacial deposit, the materials, such as terminal and ground moraines, brought together by glacial action.—Irregular deposit, in law, one in which money is deposited for safe-keeping. The depositary is not bound to return the money actually received, but only an equal sum.—Phosphatic deposit, a general term for an accumulation of calcium phosphate, such as is extensively worked for the production of fertilizers. Such a mass frequently consists in large measure of more or less altered remains of animals (bones, teeth, fecal matter, etc.), either of comparatively recent origin, as in phosphatic guano, or altogether fossil, as in the bone-breecia of South Carolina, in coprolites, etc.—Quasi deposit, in law, a deposit in which the depositary comes lawfully into the possession of another's goods, but with no inten-

tion of a deposit being made, as when goods are found and the finder is under an obligation to return them to their owner.

deposites (dē-poz-i-tē'), n. [deposit + -ee¹.]
The person with whom a thing is deposited,
as for safe-keeping, or as security, etc.

depauperation (up-parties of the person which is a for safe-keeping, or as security, etc. as for safe-keeping, or as security, etc. depauperize, v. t. 2. To impoverish or render poor; depauperate.

The person which is a for safe-keeping, or as security, etc. depositing-machine (de-poz'i-ting-ma-shen'), n. In candy-making, a machine for easting creams, gums, or other conserves in starch or making or for depositing liquid candies. other molds, or for depositing liquid candies upon paper. It consists of a steam-heated hopper for keeping the conserves liquid, combined with pumps for delivering the material under pressure to the dropping or depositing machinery, which delivers the right amount of liquid into each mold. The starch molds, placed in trays, pass under the machine on a traveling apron, or a paper band travels under the machine on which the liquid candy is delivered in drops. It is often combined with the starch-buck and the starch-printer to form one machine. In cake-making, a similar machine is used for making soft-dough cakes, etc. It consists essentially of a hopper and delivery-rolls for depositing semi-fluid dough in cakes on pans moving upon a conveyer under the machine.

deposition, n. 9. In geol., the accumulation of sediments, or the precipitation of minerals (particularly ores) from solution.—Secondary deposition, accumulation by chemical alteration, or replacement, or precipitation within the body of an existing

In theoretical geology he first suggested that secondary deposition might be the genetic condition of the iron ore bodies.

Science, March 22, 1901, p. 461.

depositional (dep- \bar{q} -zish'on-al), a. [deposition + - al^1 .] Of or relating to deposition.

Subordinate or local systems of crust-strains . . . are concentrated along old depositional and structural limits.

Geog. Jour. (R. G. S.), XVI. 461.

depot, n. 3. Milit.: (d) A place where military prisoners are confined.
depotentiation (de-po-ten-shi-a'shon), n. [L.

de-+ potentia, power, + -ation.] Deprivation of power or potency.

depot-wagon (de-pō'wag'on), n. Formerly a square-box wagon with a detachable top; now a rockaway with a trap-door at the rear end which can be converted into a baggage-rack.

depressant, n. 2. A therapeutic agent which is employed to reduce mental or physica.

strength.

II. a. Causing a lowering of the physical or mental forces.

depressibility (dē-pres-i-bil'i-ti), n. Capability

depressibility (dē-pres-i-bil'i-ti), n. Capability of being depressed.

depression, n.—Barometric depression. (b) A region of low barometric pressure; a region of relatively low pressure; a region of pressure lower than the normal; a storm-center. (c) The difference between the lew barometric pressure and the normal pressure for that locality; the departure of the pressure.—Depression of the dewpoint. See *dew-point.—Depression range-finder. See *range-finder.—V-shaped depression, in meteor., an area of low pressure whose isobars run to a point like the letter V, generally formed on the equatorial side of the trough of a cyclone, or the trough between two adjacent anticyclones. The wind accompanying the depression is usually a squall or squally.

depressomotor (dē-pres-ē-mō'tor), a. and n.
I. a. Causing a retardation of motor activity.
II. n. An agent which retards motor activity.
depressor, n. 4. In elect., a device, consisting of a generator or other source of electromotive force, placed in the return circuit of an elec-tric system and having the function of keeping the potential in that circuit approximately the same as that of the ground. Also called a crusher. A depressor or crusher is essentially of the same nature as a booster, but is applied to the regulation of the return circuit instead of the insulated circuit.— Depressores capitis, in the musculature of lepidopterous and other larve, the muscles which arise from the jugular plate or from the prosternum and are attached to the lower border of the occipital foramen; they operate in depressing the head.—Depressores externi, in the musculature of lepidopterous and other larve, the muscles which arise from the jugular plate, or from the prosternum, and are attached to the lower lateral border of the occipital foramen; they operate in depressing the head with a more or less lateral motion.—Depressor substance, a substance, formed in the pituitary body, the action of which is to produce a fall in blood-pressure.

deprint (de-print'), v. t. [de- + print.] To print off (an article) with the same types, but in a separate form from the miscellany of which it forms a part; offprint. the potential in that circuit approximately the

which it forms a part; offprint. deprint $(d\bar{e}'print)$, n. An article printed in the same types, but separately from the mis-cellany of which it forms a part; an offprint; a

cellary of which it forms a part; an onprint, a separate print.

dept. An abbreviation (b) of deputy.

depth, n.—Depth-perception, in psychol., the visual perception of the third dimension.—Molded depth, in ship-building, the interior depth of a vessel from the molded or exterior surface of the framing at the keel to the upper surface of the upper-deck beams. "The depth in one and two-decked vessels is to be taken from the upper part of the keel to the top of the upper deck beam

at the middle of the length, assuming a normal round up of beam of ene-quarter of an inch to the foot of breadth. In spar-decked vessels and awning-decked vessels the depth is to be taken from the upper part of the keel to the top of the main deck beam at the middle of the length, with the above normal round up of beam." Lloyd's Rules.

depth-gage (depth'gāj), n. 1. An apparatus for measuring the depth of a hole or recess, or the distance from a plain surface to a projecting point.—2. An attachment to a drill or other boring-tool so adjusted that when the desired depth has been reached a rod rests on the surface of the work and prevents the cut-

Depula of Amphioxus in Optical Section. (Enlarged.)

the surface of the work and prevents the cutter from entering farther.

depula (dep'ū-lā). n. [NL. depula, dim., irreg. Gr. dėma, a goblet, a chalice.] In embryol., that stage in the development of the egg which succeeds the blastula and precedes the formation of the gastrula. Hackel. der. An abbreviation (a)

der. An abbreviation (a) of derivation; (b) of derivative; (c) of derived.
deractalize (de-ra/sisliz), v. t.; pret. and pp.
deractalized, ppr. deractalizing. [de- + ractal + -ize.] To break down the characteristic habits or qualities of a race or stock; diminish the relative influence of heredity as compared with that of environment. Patten, Develop. of Eng.

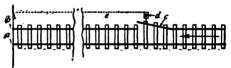
Thought, p. 365.

Thought, p. 365.

deracination (de-ras-i-nā'shon), n. [deracinate+-ion.] A plucking up by the roots; eradication; extirpation.

deradenitis (de-rad'e-ni'tis), n. [NL., ⟨Gr. δέρη, neck, + ἀδήν, gland, + -itis.] Inflammation of the cervical lymphatic glands.

derail (de-rāl'), n. [derail, v.] In railroading, a switch which is designed to divert or



Simple Form of Derail at Drawbridge.

simple Form of Derail at Drawbridge.

a, draw, epen position; b, lock on draw, open; c, derail; d, witch-rod, stand, and danger-signal; c, interlocking connection tetween draw-lock and derail, so that draw cannot be opened rithout opening derail and displaying danger-signal. Arrow hows direction of approach to derail.

throw a train or car from the track or to stop its further progress. Derails are placed on sidings to prevent a car from being moved from the siding to the line when the switch is closed; they are also used at drawbridges and at crossings. Any emergency obstruction a track may serve as a derail. Derails on sidings are placed beyond the clearance-point of a switch.

derailer (de-ra'ler), n. A derailing switch. See *derail, n

deranencephalia (der-an'en-se-fā'li-ä). [NL., \langle Gr. $\delta\epsilon\rho\eta$, neck, + $\epsilon\nu$ - priv. + $\epsilon\gamma\kappa\epsilon\phi\alpha\lambda\alpha$, brain.] The condition of being a monster with a rudimentary brain lying upon one of the upper cervical vertebræ; also, a monster exhibiting complete or nearly complete ab-sence of the brain and the beginning of the spinal cord.

deranencephalus (der'an-en-sef'a-lus), n.; pl. deranencephali (-li). [NL.] A monster characterized by deranencephalia.

derangement, n.— Hey's internal derangement, a form of partial dislocation of the knee attended by severe pain and spasmodic contraction of the muscles.—
Problem of derangements. See *problem.

derashah (de-rä'shä), n. [Heb., < dārash, seek, interpret, study.] A sermon or exposition of a scriptural or Talmudic theme in the synagogue on Sabbath or festival mornings. One who delivers the discourse is called dar-

shan, that is, a preacher.

derationalize (de-rash'on-al-īz), v. t.; pret.
and pp. derationalized, ppr. derationalizing.
[de- + rationalize.] To deprive of the power
of reason or of reasoning; convert from a rational into an irrational being.

To call upon men to worship gravitation, and sing hallelujahs to the whirlwind, is to call upon them to derationalize themselves.

C. Hodge, Systematic Theol., I. 279.

derbio (der'bi-ō), n. [Sp. derbion, also derbiso; origin uncertain.] A carangoid fish, Lichia glauca, found in the Mediterranean. derbylite (der'bi-lit), n. [Named for Dr. O. A.

Derby, director of the geological survey of Brazil.] A ferrous antimoniate and titanate occurring in slender black prismatic crystals: found near Ouro Preto, Minas Geraes, Brazil.

Dercum's disease. Same as *adiposis dolorosa. derecho, n. 2. A strong wind or squall blowing straight forward, without any apparent cyclonic rotation. G. Hinrichs, in Mo. Rev.,

Iowa Weather Service, 1885.

derencephalia (der'en-se-fā'li-Ḥ), n. [NL., <
Gr. δέρη, neck, + ἐγκέφωλος, brain.] Same as *deranencephalia.

derencephalus (der-en-sef'a-lus), n.; pl. der-encephalis (-li). Same as *deranencephalus.

Derepodichthyidæ (der'e-pod-ik-thi'i-dē). pl. [NL., < Derepodichthys + -idse.] A family of small blenny-like fishes found in the deep waters off British Columbia. They are characterized by the absence of scales and spines, the small size of the gill-openings, and the attachment of the alender ventrals below the eye.

Derepodichthys (der'e-po-dik'this), n. [NL., irreg. \ Gr. δέρη, neck, + πους (ποδ-), foot, + iχθυς, fish.] A genus of blenny-like fishes, of which the single known specimen was dredged by the "Albatross" off Queen Charlotte Island, British Columbia; the species is D. alepidotus.

Derichthyidæ (der-ik-thi'i-dē), n. pl. [NL., \ Derichthys + -idæ.] A family of eels found in the deep waters of the Gulf Stream. They are characterized by the development of the bones of the jaws and by the slender neck to which the snake-like head is attached. The single species is Derichthys serpentinus.



Derichthys serpentinus. (From Bull. 47, U. S. Nat. Museum.)

Derichthys (de-rik'this), n. [NL., < Gr. δέρη, neck, + 'λθίς, fish.] A genus of eels, constituting the family Derichthyidæ, found in the depths of the Gulf Stream.

de rigueur (de rē-gèr'). [F., 'of rigor' or strictness.] Strictly required, as by etiquette, usage, rule, etc.; essential; imperative: as,

full dress is de rigueur.

derivant, n. 2. One who or that which is de-

derivant, n. 2. One who of the sees quite clearly that neither the hide-bound empiricism of the traditional English school, nor the vaulting a priori dialectic of Hegel and his English-speaking derivants, suffice to philosophical salvation at present.

Pop. Sci. Mo., March, 1901, p. 562.

3. In med., same as derivative, n., 1.

II. a. 1. Deriving; derivative.—2. In med., same as derivative, a., 3.

derivative. I. a. 4. In geol., derived from some other source; not native to the rock in which it is now found. which it is now found.

The shells which they occasionally contain are probably, in most cases, derivative—they do not occupy the positions in which the molluscs themselves lived.

J. Geikie, The Great Ice Age, p. 371.

Derivative rocks, in geol., rock strata which have been formed mechanically by the abrasion of preëxisting rocks; generally speaking, the sedimentary rocks.

generally speaking, the sedimentary rocks.

II. n.—Pirst, second, third, etc., derivative, in math, the derivative obtained by performing the operation of derivation upon the original function, upon its first, second, etc., derivative respectively.—Partial derivative. If x and y are independent in z = f(x, y), the derivative of z with respect to x when x varies and y remains constant is called the partial derivative of z with

respect to z, and is denoted by the symbol $\frac{\delta z}{\delta x}$.—Total derivative, a derivative obtained when all the variables of the function vary.

derive, v. t.—Derived circuit, curve, function, group. See *circuit, *curve, function, *group1. group. See **circuit, **curve, function, **group1. dermal, a.— Dermal body, one of the various structures having a glandular or sensory function, found in the dermis and to some extent in the epidermis of certain gephyreans, as Sipungulus.—Dermal branchise, cortex, glands, etc. See **branchise, **cortex, **glands, etc.

dermalaxia (der-ma-lak'si-ä), n. [NL., for *dermomalaxia or *dermatomalaxia, ζ Gr. δέρμα, skin, + μάλαξις, softening.] Softening of the

skin.

dermale (der-mā'lē), n.; pl. dermalia (-li-\bar{a}).

[NL., neut. of dermalis, dermal: see dermal.]

In sponges, one of the spicules which support the dermal or bounding membrane of the sponge. Sedgwick, Text-book of Zoöl., I. 92.

Dermanyssus (der-ma-nis'us), n. [NL. (De Geer, 1778), irreg. < Gr. δέρμα, skin, + νύσσευν, pierce 1 A genus of mites. D. galling is the

pierce.] A genus of mites. D. gallinæ is the chicken- or fowl-tick. It is not a true tick, but a mite

belonging to the family Gamasidæ, and is one of the most persistent and injurious pests of the hennery. It also attacks man, horses, cattle, dogs, cats, and rabbits.

dermarticulare (der-mär-tik-ū-lā'rē), n.; dermarticularia (-i-i-i). [NL., ζ Gr. δέρμα, skin, + NL. articulare, a bony element of the lower jaw: see articular.] A bony element lying on the posterointernal face of each ramus of the lower jaw of some reptiles. It may fuse with the articulare or remain distinct as in turtles. Also aermarticular.

For this dermal element, which in some reptiles is distinct throughout life. I have adopted the term dermarticulare.

J. S. Kingsley, in Amer. Nat., Feb., 1906, p. 61.

dermatitis, n.— Blastomycetic dermatitis. See *blastomycetic.— Dermatitis calorica, inflammation of the skin caused by heat (or by cold).—Dermatitis congelationis, frost-bite.—Dermatitis exfoliativa, any inflammation of the skin which is attended with an abundant desquamation.—Dermatitis herpetiformis, a grave chronic akin-disease with lesions of most varied character, marked by burning sensations and itching. Also called Duhring's disease.—Dermatitis medicamentosa, an inflammatory redness of the skin due to the action of certain drugs, such as quinine, in susceptible persons.—Dermatitis venenata, an inflammation of the skin caused by some poison or irritant, such as poisoniv.—Epidemic exfoliative dermatitis, an epidemic akin-disease marked by an eruption of confluent reddish patches followed by an abundant desquamation.—Halignant papillary dermatitis, a parasitic disease of the akin surrounding the nipple, the tendency of which is to become cancerous. Also called Paget's disease.—Röntgen-light or Röntgen-ray dermatitis, a severe inflammation of the skin caused by exposure to the Röntgen rays. Also called X-ray dermatitis.—X-ray dermatitis. Dermatobia (der-ma-tō'bi-ä), n. [NL., < Gr.

Dermatobia (der-ma-tō'bi-ā), n. [NL., ⟨Gr. δέρμα(τ-), skin. + βίος, life.] An important genus of Œstrid flies, containing one or more species (as D. noxialis) which attack human beings in tropical regions. The eggs are laid on the skin, the larva living in the connective tissue under the epidermis.

dermatocellulitis (der ma-tō-sel-ū-li'tis), n. [NL., \langle Gr. $\delta \dot{e} \rho \mu a(\tau)$, skin, $\dot{+}$ NL. cellulitis.] Inflammation of the skin and underlying cellular tissue.

dermatocyst (der'ma-tō-sist), n. [Gr. $\delta \epsilon \rho \mu a(\tau -)$, skin, + κυστις, bladder (cyst).] A cystic tumor of the skin.

dermatodynia (der'ma-tō-din'i-ä), n. [NL., $\langle \delta \dot{\epsilon} \rho \mu a(\tau)$, skin, $+ \dot{\epsilon} \delta \dot{\epsilon} \nu \eta$, pain.] Same as dermalaia.

dermatograph (der'ma-tō-graf), n. [Gr. $\delta\ell\rho$ - $\mu a(\tau$ -), skin, + $\gamma\rho\dot{a}\phi\epsilon\nu$, write.] A device for marking upon the skin.

dermatographia (der'ma-tō-graf'i-ä), n. [NL., \langle Gr. $\delta \dot{\epsilon} \rho \mu a$, skin, $+ \gamma \rho \dot{a} \dot{\rho} \epsilon \dot{\nu}$, write.] An irritable condition of the skin in which a raised line follows the drawing of a hard-pointed instrument across it.

dermatographism (der-ma-tog'ra-fizm), n. Same as *dermatographia.

dermatol (der'ma-tōl), n. [Gr. $\delta \epsilon \rho \mu \alpha(\tau -)$, skin, +-ol.] A trade-name for \star bismuthum subgallicum (which see).

Dermatolepis (der-ma-tol'e-pis), n. [NL., \langle Gr. $\delta \epsilon \rho \mu a(\tau)$, skin, $+\lambda \epsilon \pi i \epsilon$, scale.] A genus of large bass-like fishes found on both coasts of tropical America, characterized by the smooth embedded scales. The species are *D. inermis* of the West Indies, and *D. punctatus* of the west coast of Mexico.

dermatome (der'ma-tôm), n. [Gr. δέρμα, skin, + -τομος, < ταμείν, cut.] A knife with a very fine blade, used for removing certain skinblemishes.

dermatomere (der'ma-tō-mēr), n. [Gr. $\delta\epsilon\rho$ - $\mu a(\tau$ -), skin, + $\mu\epsilon\rho\sigma$, part.] In embryol., one
of the cleavage-cells or blastomeres which give rise to the integument or skin.

dermatomyositis (der ma-tō-mī-ō-sī'tis), n. [NL., $\langle Gr. \delta t \rho \mu a(\tau -), skin, + (irreg.) \mu \nu \sigma_c, gen.$ of $\mu \bar{\nu}_c$, muscle, +-itis. The right form would be *dermatomyitis.] Inflammation of the skin and underlying muscular tissue.

dermatoneurosis (der ma-to-nū-ro'sis), n. [NL., ζ Gr. δέρμα, skin, + νεῦρον, nerve, + -osis.] An affection of the skin due to a morbid state of the nervous system.

dermatopathia (der'ma-to-path'i-ä), n. [NL., $\langle \text{Gr. δέρμα, skin, } + -\pi a \theta ε i a, \langle \pi a \theta o \varsigma, \text{ disease.}]$ Same as dermatosis, 2.

dermatopathic (der ma-to-path'ik), a. Of or pertaining to disease of the skin.

dermatopathology (der'ma-tō-pā-thol'ō-ji), n. [Gr. $\delta \epsilon \rho \mu a(\tau \cdot)$, skin, + E. pathology.] Pathology of the skin. dermatopathy (der-ma-top'a-thi), n. [NL. dermatopathia.] Same as dermatosis, 2.

dermatophony (der ma-tof \ddot{o} -ni), n. [Gr. $\delta \dot{\epsilon} \rho \mu a(\tau)$, skin, + $\rho \omega n \dot{n}$, sound, + -y³.] Auscultation of the sounds of the blood-stream in the vessels of the skin.

dermatoplasm (der ma-tō-plazm), n. [Gr. $\delta\ell\rho\mu a(\tau)$, skin, $+\pi\lambda\dot{a}\sigma\mu a$, anything formed.] The living protoplasm that is said to form an essential part of the cell-nembrane in plants.

dermatoplasty (der'ma-tō-plas'ti), n. [Gr. δέρμα(τ-), skin, + πλαστός, < πλάσσειν, form.] Restoration of lost skin by grafting or sliding the integument from another part.

dermatopteran (derma-top'te-ran), a. and n.
I. a. Of or belonging to the Dermatoptera.
II. n. A member of the Dermatoptera.

II. n. A member of the Dermatoptera. dermatopterous (derma-top'te-rus), a. Belonging to or resembling the Dermatoptera.

dermatoptic (dermatoptik), a. [Gr. $\delta \epsilon \rho \mu a(\tau)$, skin, $+\delta \pi \tau \iota \kappa \delta_0$, of sight: see optic.] Relating to or having the faculty of perceiving variations of light by means of the skin alone, in the absence of definite organs of vision: as, dermatoptic perception in certain coelenterates, mollusks, and other invertebrates. Also dermatoscopic.

dermatoscopic (der'ma-tō-skop'ik), a. [Gr. δέρμα(τ-), skin, + σκοπείν, view, + -ic.] Same as *dermatoptic. Geog. Jour. (R. G. S.), XII. 459

dermatosome (der'ma-tō-sōm), n. [Gr. $\delta \epsilon \rho$ - $\mu a(\tau$ -), skin, + $\sigma \omega \mu a$, body.] In bot., one of the granular bodies which occur in rows, united

and surrounded by protoplasm, forming the cell-wall. Wiesner.

Dermatostethus (der ma-tō-stē' thus), n. [NL., \langle Gr. δέρμα(τ-), skin, $+ \sigma \tau \bar{\eta} \partial \sigma_{\zeta}$, breast.] A genus of pipe-fishes of the family Syngnathidæ, found in the Gulf of California.

dermatosyphilis (der'ma-tō-sif'i-lis), n. [NL., $\langle \operatorname{Gr.} \delta \hat{\epsilon} \rho \mu a(\tau -)$, skin, + E. syphilis.] Syphilitic lesions of the skin.

dermatotherapy (der 'ma - tō - ther 'a - pi), n. [Gr. $\delta\ell\rho\mu a(\tau$ -), skin, + $\theta\epsilon\rho\alpha\pi\epsilon ia$, treatment, cure.] Treatment of the skin and its diseases. dermatotyloma (der matō-ti-lō mā), n.; pl. dermatotylomata (-ma-tā). [Gr. δέρμα $(\tau$ -), skin, + τ ίλωμα, a callus.] A callus.

dermatotylosis (der ma-tō-ti-lō'sis), n. [NL., ⟨ Gr. δέρμα(τ-), skin, + τύλωσις, a making or becoming callous.] Same as *dermatotyloma. **Dermatozoa** (der ma-tō-zō'ä), n. pl. [NL., \langle Gr. $\delta \epsilon \rho \mu a(\tau -)$, skin, $+ \zeta \dot{\phi} ov$, animal.] Animals that are parasitic on or in the skin: a general

term, of no value in classification.

dermatozoan (der ma-tō-zō an), a. and n.
I. a. Relating to or characteristic of the Dermatozoa.

II. n. One of the Dermatozoa, or any animal that is a skin-parasite.

dermatozoōnosis (der'ma-tō-zō-ō-nō'sis), n. [NL., \langle Gr. $\delta\ell\rho\mu\alpha(\tau-)$, skin, $+\zeta\bar{\rho}o\nu$, animal, +-osis.] Any disease of the skin produced by animal parasites living on or in the skin, as psoriasis, acariasis, dracunculosis, grounditch etc. itch, etc.

dermatrophia (der-ma-trō'fi-ä), n. [NL., ζ Gr. δέρμα(τ-), skin, + τροφή, nourishment.] Atrophy of the skin. dermatrophy (der-mat'rō-fi), n. Same as

dermochrome (der'mō-krōm), n. [Gr. δέρμα, skin, + χρῶμα, color.] A colored illustration of the skin in health or disease. Lancet, May 9, 1903, p. 1308.

9, 1903, p. 1308.

dermographism (dér-mog ra-fizm), n. [Gr. δέρμα, skin, + γράφειν, write, + -ism.] Same as *dermatographia.

dermoid, a. II. n. A dermoid cyst.

dermoi (dér moi), n. [Gr. δέρμα, skin, + -ol.]

A trade-name for bismuth chrysophanate.

dermophlebitis (dér mō-flē-bi tis), n. [NL., < Gr. δέρμα, skin, + φλέψ (φ/εβ-), vein, + -itis.]

Inflammation of the superficial veins.

scendancy, descendancy, descen

dermotrich (der'mō-trik), n. [Gr. δέρμα, skin, + θρίξ (τριχ-), hair.] A mesoblastic dermal fin-ray of fishes. E. S. Goodrich, Quart. Jour. Micros. Sci., March, 1904, p. 512.
dermotrichium (der-mō-trik'i-um), n.; pl. dermotrichia (-8). Same as *dermotrich. Nature, May 5, 1904, p. 13.
dernier, a. II. In roulette, a bet that one of the numbers from 25 to 36, inclusive, will win. derodidymus (der-ō-did'i-mus), n.; pl. derodidymi (-mī). [Gr. δέρη, neck, + δίδυμος, twin.] A double-headed monster.

derotremate (der-ō-trē'māt), a. Same as dero-

treme and derotrematous.

derrick, n. 2. The overhead framework used in drilling the holes for oil-wells, and which remains in place after the boring is completed the drilling machinery is removed.—Ginate the coherence, the crystallization, and in some interesting the coherence, the crystallization in the coherence in th mains in place after the boring is completed and the drilling machinery is removed.— Ginderrick. Same as gin4, 2 (c).— Guy-derrick, a derrick in which the upright post is stayed by three or more guyropes which extend to the ground on opposite sides and are there anchored to hold the derrick in position. Where, as in a quarry, several derricks are placed in reach of one another, horizontal guy-ropes may be used to join the tops of all the posts together and furnish a support against side strains, reducing the number of guy-ropes and giving more freedom to the booms of the derricks. Large floating derricks on tow-boats or scows sometimes use two booms on opposite sides of one large post having guy-ropes or staying-shrouds at the sides between the booms. In such derricks the post is fixed and the booms have only a limited swing to the right or left of the point of support.—Hauling derrick, a simple crab or windlass on a frame, which can be anchored where desired.—Stiffleg derrick, a derrick in which two stiff rods of wood or iron take the place of guy-ropes. The legs are placed as close together as possible to give free room for the sluing of the boom, the usual position being one quarter of the whole circle in which the boom might turn if it were a guy-derrick. In large derricks the post and boom are supported upon a *sluing-gear (which see).

derrick-crab (der'ik-krab), n. The hoisting-gear and its frame at the foot of any hoisting-apparatus such as a crane or derrick, con-sisting of a drum on which the hoisting-rope may be wound, and the necessary reducinggears and pinions.

derrick-elevator (der'ik-el'-ē-vā-tor), n. See

*elevator.
derricking (der'ik-ing), a. Of or pertaining or proper to the jib or boom of a crane or derrick or its inclination with regard to the post.

—Derricking motion (of a crane), the radial motion of the jib when its inclination with regard to the post is altered in order to place a suspended weight nearer to or farther from the post, as distinguished from the lifting motion itself, or from a sluing or circular motion round the axis of the post.

derrid (der'id), n. [NI. Derric (Derrid.)]

derrid (der'id), n. [NL. Derris' (Derrid-).] A tarry substance obtained from the bark of the tarry substance obtained from the bark of the root of Derris (Pongamia) elliptica, the active principle of a decoction used in Java for killing fish. One part of this substance in 5,000,000 parts of water is said to act instantly on large fish. Jour. Soc. Chem. Industry, X. 268. derth, n. and v. A simplified spelling of dearth.

fish. Jour. Soc. Chem. 1....

derth, n. and v. A simplified spelling of derth, n. and v. A simplified spelling of desert-rod (dez desert-rod).

Ruined; in a state of ruin.

Derwenter (der wen-ter), n. In Australia, a released convict, especially one from Hobart Town, Tasmania, where there was a convict settlement on the banks of the river Derwent: hence the name.

Town, Tasmania, where there was a convict settlement on the banks of the river Derwent: hence the name.

And DD.

And DD.

And DD.

desert-rod (dez desert-rod) (desert-rod) (dez desert-rod) (dez desert-rod) (dez desert-rod) (dez desert-rod) (dez desert-rod) (desert-rod) (dez desert-rod) (dez desert-rod) (dez desert-rod) (dez desert-rod) (desert-rod) (desert-rod *dermatrophia.

dermite (de-rô'i-nāt), a. [de-+ ruināte.]

Gr. δέρμα, skin, + ἐπένθεσις, insertion: see epenthesis.] Skin-grafting.

dermitis (der-mī'tis), n. [NL., ⟨ Gr. δέρμα, skin, + -itis.] Same as dermatitis.

dermoblast (der'mō-blast), n. [Gr. δέρμα, skin, + βλαστός, germ.] In embryol., that portion of the mesoderm which gives rise to the derma, or true skin.

deruināte (de-rô'i-nāt), a. [de-+ ruināte.]

Ruinēd; in a state of ruin.

Derwenter (der'wen-tèr), n. In Australia, a released convict, especially one from Hobart Town, Tasmania, where there was a convict settlement on the banks of the river Derwent: hence the name.

Desarguesian (dē-sak'sn-īz), v. t.: pret. and production of the mesoderm which gives rise to the derma, desaryonize (dē-sak'sn-īz), v. t.: pret. and productions of the mesoderm which gives rise to the derma, deruināte (dē-rô'i-nāt), a. [de-+ ruināte.]

qualities and tendencies.

That sometimes almost gives me to believe I might have been a poet, gives at least A brain desaxonized!

Lowell, Cathedral.

descamisado (des-kä-mē-sā'dō), n. [Sp., lit. 'shirtless,' \(\) des- (\(\) L. dis-) priv. + camisado, \(\) camisa, shirt.] In Sp. hist., an extreme liberal and revolutionist in the turbulent period after 1820.

Descartes's formula. See *formula.

dermatophone (der'ma-tō-fōn), n. [Gr. δέρ- dermophyte (der'mō-fīt), n. Same as dermato- descend, v. i. 7. In phys., to pass from higher to lower readings or values upon any scale: lindrical stethoscope devised for dermatoph- dermoplasty (der'mō-plas-ti), n. Same as said specifically of the musical scale and of

Square, lover of Plato and Molly Seagrim, with his brain full of transcendental morality, and his heart full of descendental appetites. Whipple, Essays and Rev., II. 342. descensional, a. [descension + -all.] 2. Specifically, in geol., noting the disaggregation of the antecedent rock, the separation of unlike particles, and their final aggregation in beds; noting the breaking down of complex silicates, the solution of certain original components, and a gathering of the modified and assorted product into stratified deposits.

Running hand in hand with this descensional process, there has always been a reascensional process by which the coherence, the crystallization, and in some measure the complex composition of the rocks are restored.

Chamberlin and Salisbury, Geol., I. 412.

the extract.

the extract.

Three theories are maintained as to the course of the [subterranean] waters which deposit ores. Some hold that the waters doing the work are descending; others that they are laterally-moving; others that they are ascending.

But if we are descensionists. ... we may say that the waters which are doing the work are descending.

Science, Nov. 15, 1901, p. 756.

description, n.—The world of description. See the world of *appreciation. descriptive, a. 2. In geom.: (a) Pertaining to the projective methods of Monge. (b) Not containing the idea of quantity or measurement. ment.

Projective Geometry on the other hand, dealing with projective properties (i.e. such as are not altered by projection), is chiefly concerned with descriptive properties

of figures.

C. Leudesdorf, tr. of Cremona, Projective Geom., p. 50. desectionalize (dē-sek'shon-al-īz), v. t.; pret. and pp. desectionalized, ppr. desectionalizing.
[de- + sectional + +ize.] To free from sectionalism in any sense or in any connection; widen in scope or spirit by the removal of whatever limits or divides; convert into one broad whole.

This tendency to merging unification and desection-alizing is steadily pervading every human interest. Elect. World and Engin., Jan. 2, 1904, p. 7.

lesert¹, n. Specifically—(b) In phytogeog., one of the three principal types of Schimper's climatic formations, the result of excessive drought or cold. In desert all surviving vegetation is stunted and the difference between woodland and grass-land (the other two tween woodland and grass-land (the other two grand types) is obliterated.—Desert act. Same as *devil. 15.—Desert polish, a smooth and shining surface imparted to rocks or other hard substances by the wind-blown sand and dust of desert regions. Getkie, Text-book of Geol., p. 496.—Desert sandstone, in geol., the later Cretaceous formations of Australia.—Desert varnish, in petrog., a hardened film of iron oxid or quartz on rocks and stones polished by wind-blown sand, found in deserts. Gilbert. See *case-hardening, 2, and *desert polish.

or sexual characters; castrate.

desiccate, v. t.—Desiccating tube, a glass apparatus which permits air or gas to pass to and from an inclosed space through sulphuric acid or other desiccating material.

desiderant (dē-sid'e-rant), n. and a.

[L. desiderans (-ant-), ppr. of desiderare, desire: see desire.] I. n. One who decirces a thing at this property of the second of the sec

sires a thing.

II. a. Desiring; of the nature of

When we ask what we know the soul to be, we can only answer: A sentient desire, or desiderant feeling, which, through its own effort after satisfaction, gradually differentiates itself into a world.

Thomas Davidson, Rousseau, p. 243.

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sessed and now missed; pain or regret account of loss or absence.

All Conservatives . . . regard the memory of Lord Beaconsfield with a desiderium which has not been exhibited towards that of any English political leader.

Sat. Rev., April 21, 1883, p. 486.

desight (dē-sīt'), n. [de- + sight.] A disfigurement; an eyesore. N. E. D.

She had a box, . . . composed of three diamonds, three emeralds, three pearls, and one large rough pebble, which was such a desight to the others, that she carried the box emeralds, three games and a design to the others, that she was such a design to the smith.

Miss Yonge, Cameos Eng. Hist., ser. 2, vi. 68.

design, n. 9. Specifically, in music, either the melodic pattern, the harmonic process, or the rhythmic and métric form adopted in composition, by which a particular work or a class of works is made coherent and characteristic. In works is made coherent and characteristic. In
the evolution of artistic music the principles of
design have been but slowly perceived and
established.— Arts of design. See **art2.

Designate individual, in logic, an individual object,

Nature, June 26, 1902, p. 214.

established.—Arts of design. See **art2.

Designate individual, in logic, an individual object, known to exist (distinctions of time not being regarded) and so denoted as to exclude every other individual, that is, called by its well-known proper name (or a description, which amounts to a proper name in logic, since it is assumed to be applicable to nothing else): opposed to an indesignate or vague individual. Thus, Othello is a designate individual existing in the world of Shakspere's tragedy; so is 'earth's satellite if the phrase is spoken by a person who knows, and to a person who knows, and to a person who knows, that there is but one; and so is 'quality' in a list of categories.

designingly (dê-zi'- or dê-sī'ning-li), adv. In-

designingly (dē-zi'- or dē-si'ning-li), adv. Intentionally; with crafty or evil design; for selfish ends.

selfish ends.

design-paper (dē-zīn'pā-pèr), n. A drawingpaper printed in cross-lines and used in
designing patterns for textile fabrics, and
particularly in laying out the patterns to be
transferred to the cards of a Jacquard loom.
desilicate (dē-sil'i-kāt), v. t.; pret. and pp.
desilicated, ppr. desilicating. (de- + silica +
-ate².) In chem., to remove silica from a substance which contains it, as, a rock.
desilication (dē-sili-kā'shon), n. The act of

stance which contains it, as, a rock.

desilication (dē-sil-i-kā'shon), n. The act of desilication of the state of being desilicated.

desinential (des-i-nen'shal), a. [NL., *desinentia, desinence, + -all.] Of or pertaining to a desinence; terminational; terminal; desinent: as, the desinential -it for -ed in dialectal respectively.

The act of desiner compound, HOC10Hg(CH3)2CH(CH3) cooperated by the reduction of desmotroposantonin. It is isomeric with santonous acid and melts at 175° C.

desmotropy (des-mot'rō-pi), n. Same as *desmotropism.

desmotropism.

désobligeant (dā-zō-blē-zhoń'), n. [F., lit. dischligeant (dā-zō-blē-zhoń'), n. [F., lit. dischligeant (dis-zō-ble-zhoń')] English.

desipiency (dē-sip'i-en-si), n. Same as desipi-

desk-book (desk'bùk), n. A book of reference for desk use; a hand-book for ready reference, as in matters of spelling or the like.

desma, n. 2. A ligament; formerly, a bandage. desocialize (dē-sō'shal-īz), v. t.; pret. and desmactinic (des-mak-tin'ik), a. [Gr. δέσμα, pp. desocialized, ppr. desocializing. [de- + band, + ἀκτίς (ἀκτιν-), ray.] Of sea-urchins, having the podia continued upward to the apical plates; opposed to *lysactinic (which dings, Inductive Sociol., p. 262.

Desmarestia (dez-ma-res'ti-ä), n. [NL. (Lamouroux, 1813), named for A. G. Desmarest, a French naturalist.] A common genus rest, a French naturalist.] A common gone of the Phæophyceæ, or brown algæ, occurring along the New England coast and in southern désœuvrement (dā-zev-re-mon'), n. [F.] A being unemployed; lack of occupation or

desmergate (des mer-gāt), n. [Gr. δεσμός, band, + ἐργάτης, a worker.] A worker ant which is intermediate in structure between the soldier or worker major, and the true worker or worker minor of the same species.

desmic (dez'mik), a. Resembling or pertaining to a desma.

desmodynia (des-mō-din'i-ä), n. [NL., ζ Gr. Exper. Phonetics, p. 203. deσμός, a baud, + δδίνη, pain.] Pain in the desophistication (dē sō-fis-ti-kā'shon), n. The

desmogen (des'mō-jen), n. [Gr. δεσμός, band, + γενης, -producing.] In bot., the embryonio be Soto group. See *group1. tissue of plants.—Primary desmogen. Same as procambium.—Secondary desmogen, tissue formed from the cambium and subsequently transformed into permanent vascular strands.

The desmogen is the fact of being freed from t

desmogenous (des-moj'e-nus), a. [Gr. δεσμός, a band, + -γενής, -produced.] Of ligamentous origin or causation.

desmohemoblast (des-mō-hē'mō-blast), n. [Gr.

desmonemoliast (des-mo-de mo-diast), n. [Gr. δεσμός, band, + αὶμα, blood, + βλαστός, germ.]
Same as mesenchyme. Also desmohæmoblast.

Des Moines beds. See *bedl.
desmoma (des-mō'mä), n.; pl. desmomata (-ma-tā). [NL., ⟨ Gr. δίσμωμα, a fetter, ⟨ δεσμόν, bind, fetter, ⟨ δεσμός, a band, fetter.] Same as desma, 1.

desmon (des'mon), n. [NL., < Gr. δεσμός, a band, bond, chain.] Same as *amboceptor.

ngamentous structures.

desmorrhexis (des-mō-rek'sis), n. [NL., < Gr. δεσμός, a band, + ρῆξις, a breaking, < ρηγνύναι, break.] Rupture of a ligament.

desmosis (des-mō'sis), n. [NL., < Gr. δεσμός, a band, + -osis.] A disease of the connective tissue.

desmosite (des'mō-sīt), n. [Irreg. < Gr. δεσμός, a band, + -ite².] In petrog., a banded compact rock developed from shales and slates by contact-metamorphism induced by intrusions of

diabase. Zincken. 1841.

Desmothoraca (des mō-thō-rā kā), n. pl. [NL., ζ Gr. δεσμός, a band, + θώραξ (θώρακ-), breastplate.] An order of Heliozoa having a stalked or unstalked shell perforated by numerous pores. It includes Clathrulina and Orbulinella

desmotropism (des-mot' $r\bar{o}$ -pizm), n. [Gr. $d\epsilon\sigma\mu\delta\varsigma$, a bond, + $\tau\rho\delta\pi\delta\varsigma$, turning, + -ism.] In chem., a term proposed by Victor Meyer and Jacobsen, as a substitute for tautomerism, to signify an easily experienced shifting of the atoms in a molecule from one order of attach-

atoms in a molecule from one order of attachment to another, so that each of two isomeric substances readily changes into the other. desmotroposantonin (des mō trop -ō-san'tō-nin), n. [desmotrop-ic + santonin.] A color-less dextrorotatory alkaloid,

HC: C(CH₃)CCH₂CH. O.CO

HOC: C(CH₃)CCH₂C H CH(CH₃)
with santonin, from which it is prepared by
the action of concentrated hydrochloric acid. It crystallizes in small needles, melting at 260° C.

desmotroposantonous (des'mō-trop-ō-san'tōnus), a. Derived from desmotroposantonin.

—Desmotroposantonous acid, a coloriess, leverotatory, crystalline compound, HOC₁₀H₆(CH₃)₂CH(CH₃)

COOH, (3:14:5), prepared by the reduction of desmotroposantonin. It is isomeric with santonous acid and melts at 175° C.

'disobliging': compare sulky, n.] A small chaise with accommodations for only one person: hence the name.

An old Desobligeant, in the farthest corner of the court, hit my fancy at first sight; so I instantly got into it.

Sterne, Sentimental Jour., p. 10.

habits, and relations; render non-social. Gid-dings, Inductive Sociol., p. 262.

désœuvré (dā-zė-vrā'), a. [F., < dés- priv. + œuvre, work, < L. opera, work.] Unemployed; unoccupied; idle.

I have nothing to write you, and therefore, write for the pleasure of it, and from mere desœuvrement. Life of Longfellow, II. 143.

desonation (dē-sō-nā'shön), n. [de- + sonation.] The removal of sonant quality: as, "the desonation of final vowels," Scripture,

act of freeing or the fact of being freed from

desoxycholalic (des-ok-si-ko-lal'ik), a. [des-for dis- + oxy(gen) + cholalic.] Noting an acid, a reduction-product of cholalic acid, C₂₄H₄₀O₄.

U₂₄H₄₀U₄. desoxycholic (des-ok-si-kol'ik), a. [des- for dis- + oxy(gen) + cholic.] Derived from cholic acid by loss of oxygen.—Desoxycholic acid, a crystalline acid, $C_{24}H_{40}U_4$ + $1\frac{1}{2}H_2U$, formed in the putrefaction of ox-gall. It is bitter and melts at 185-190° C.

desoxydation (des-ok-si-dā'shon), n. Same as deoxidation.

desoy† (de-soi'), n. A shortened form of serge-dusoy. A. M. Earle, Costume of Colonial Times, p. 98.

desiderium (dē-si-dē'ri-um), n.; pl. de- desmopathy (des-mop'a-thi), n. [Gr. δεσμός, a despatcher, n. 2. A die with double numbers, sideria (-ā). [L.: see desire.] A longing band, +-παθεω, < πάθος, disease.] Disease of such as two fives on opposite sides, instead of a deuce opposite the five: so called because it throws higher than the average and despatches

the game quickly. despecialization (de-spesh al-ī-zā'shon), The act of advancing from a stage of speciali-

The act of advancing from a stage of specialization to one of greater generality. Patten, Heredity and Social Progress, p. 117.

despecialize (dē-spesh'al-īz). v. i.; pret. and pp. despecialized, ppr. despecializing. [de-+specialize]. To pass from a specialized to a more generalized condition or stage. Patten, Heredity and Social Progress, p. 61.

despiritualize (dē-spir'i-tu-al-īz), v. t.; pret. and pp. despiritualizing despiritualizing despiritualizing.

and pp. despiritualized, ppr. despiritualizing. [de- + spiritualize.] To deprive of spiritual character, power, or influence; affect with worldliness or materialism: as, to despiritualize Christianity.

despumation, n. 2. The mechanical removal of seum or foam from a liquid by skimming.

dessert-spoonful (de-zert'spon ful), n. As
much as a dessert-spoon will contain; about two drams.

destor, n. See *dastur. destrictinic (dē-strik-tin'ik), a. [NL. destricta (see def.) + -in + -ic.] Noting an acid, an indigo-blue crystalline compound, extracted from the lichen Cladina destricta.

destroyer, n. 2. Specifically, a torpedo-boat destroyer. See torpedo-boat.

destructional (de-struk'shon-al), a. [destruction + -al¹.] Pertaining to or formed by destructive agencies or processes; specifically, relating to or resulting from denudation.

The steep cliff is clearly in both cases a destructional surface from which material has fallen away.

Amer. Jour. Sci., Jan., 1904, p. 38.

destructionalist (dē-struk'shon-al-ist), n. [de-structional + ist.] One whose aim is destruction or who is engaged in the devising or use of engines of destruction.

The torpedo (that ever verdant topic of the universal structionalist). Sci. Amer., lxxix. 322.

Destructive leaf-hopper. See *leaf-hopper. destructivity (de-struk-tiv'i-ti), n. [destructive+ity] The ability to destroy; destructive-ness: as, "seismic destructivity can be accurately expressed in mechanical units," Encyc. Brit., XXVII. 609.

destructor-cell (dē-struk'tor-sel), n. retort in a refuse- or garbage-incinerating plant. These furnaces are usually in pairs, straddling a common flue, and are maintained at a high temperature to diminish nuisance from odor.

destructuralize (dē-struk'tū-ral-īz), v. t.; pret. and pp. destructuralized, ppr. destructuralizing. [de- + structural + -ize.] To undo or take [de-+ structural + -i.ze.] To undo or take apart; disorganize. N. E. D. desubstantiate (de-sub-stan'shi-āt), v. t.; pret.

desubstantiate (de-sub-stan'shi-āt), v. t.; pret. and pp. desubstantiated, ppr. desubstantiating. [de-+ substantiate.] To deprive of substance. Mrs. Humphry Ward. N. E. D. desulphate (de-sul'fāt), v. t.; pret. and pp. desulphated, ppr. desulphating. [de-+ sulphate.] In chem., to remove a sulphate or the radical of sulphuric acid from (a substance). Jour. Brit. Inst. of Elect. Engin., 1899-1900, p. 474. n. 474.

desulphation (de-sul-fa'shon), n. The process of desulphating. Jour. Brit. Inst. of Elect. Engin., 1899-1900, p. 466. desulphurizer (dē-sul'fū-rī-zer), n. In chem.,

a substance used to combine with and so remove sulphur from something else, as scrap-iron used in the reduction of metallic antimony from its sulphid.

desultor (de-sul'tôr), n.; pl. desultores (-tō'rēz).
[L.: see desultory.] A bareback rider in the Roman circus who rode two or more horses at once, leaping from one to another.

det, n. 2. A recent simplified spelling of debt. det. An abbreviation of the Latin detur, 'let it be given.

detaching-roller (de-tach'ing-ro'ler), n.
On a cotton-combing machine, a steel roller
with an intermittent motion, for detaching
a tuft of cotton after it is combed.

Detachment of the retina. See *retina.

detail, n. 5. The service on which one is detailed.—Detail paper. See *paper.
detainer², n. (c) In law, the fact of being detained or held in custody: as, a writ of habeas corpus may issue to inquire into the detainer of a prisoner.

detassel (dē-tas'l), v. t. [de- + tassel.] To remove the tassel of growing Indian corn.

detassel (dē-tas'l), v. t. [de- + tassel.] To remove the tassel of growing Indian corn. See *detasseling.

detasseling (dē-tas'l-ing), n. The act or practice of removing the tassel (male inflorescence) from growing Indian corn. In breeding for improved stock, weak plants are detasseled to eliminate their pollen, and where cross-fertilization is sought the plants destined to bear the ears are thus treated. Detaseling has been performed experimentally on part of the rows in fields to observe the effect on the yield of grain and forage, with ambiguous results.

detector, n.—Electrolytic detector, a form of receiving apparatus used in wireless telegraphy. It consists of a small electrolytic cell the space between the terminals of which is bridged by a chain of deposited metallic particles. Electric oscillations break down this bridge and momentarily increase the resistance of the circuit.—Electrothermal detector, in wireless telegraphy, same as thermal *detector.—Magnetic detector, a receiving apparatus used in wireless telegraphy. Its operation depends upon the fact that the sudden changes in the magnetization of the iron core of the receiver, caused by the electric oscillations, are capable of producing sounds in a telephone placed in circuit with a coil about the core.—Mechanical detector, in etect, a device for the detection of electric waves based upon the tendency of a ring of wire, suspended near a resonator carrying electric oscillations, to turn into the position of minimum action. Such detectors were employed by Hertz in his study of the propagation of electric waves based upon the tendency of a ring of wire, suspended near a resonator carrying electric oscillations, to turn into the position of minimum action. Such detectors were employed by Hertz in his study of the propagation of electric waves in conductors.—

Thermal detector, a receiving apparatus, used in wireless telegraphy, the action of which depends upon the heating of a minute wire by the electric oscillations.

detector-bar (dē-tek'tor-bār),

and intended to prevent its movement while and intended to prevent the movement while a train is passing over it. The bar is pivoted to the switch in such a manner that when the switch is to be moved it rises above the level of the top of the switch-rail and then returns to its normal position. In rising it strikes the car-wheels, detects their presence, warms the switchman, and also prevents the movement of the switch until the last wheel of the train has passed. See writch.

detent-lock (de-tent'lok), n. A lock, usually a spring-lock, in which the bolt has notches, into which may be slid a detent or catch operated by a knob or pin. One of these notches is so located that when the bolt is drawn back and the detent thrown in, the bolt is held back in the lock and does not project or operate to fasten the door. The other notch is opposite the detent when the bolt is thrust out, and then the bolt cannot be withdrawn by the turning of the key outside, and the door is secure even against pass-keys or the keys belonging to the lock.

detent-rod (de-tent'rod), n. 1. A rod which carries a catch or detent.—2. A rod which

controls the motion of a detent.

détenu (dā-te-nü'), n. [F., prop. pp. of détenir,
detain.] One who is detained in custody; detain.] One who is detained in custody; a prisoner: used especially in reference to English and French prisoners of war held by either country during the wars of 1793-1815. deteriorationist (dē-tē"ri-ō-rā'shon-ist), n. One who holds that deterioration is the prevailing tendency or rule of things; a deteriorist.

deteriorator (dē-tē'ri-ō-rā-tor), n. One who or that which deteriorates or causes deteriora

deteriorism (dē-tē'ri-ō-rizm), n. [L. deterior, worse. + -ism.] The doctrine that the general tendency of all things is to grow worse: opposed to meliorism.

Meliorism and the opposite theory, which we suppose must be called deteriorism. Goldwin Smith. N. E. D.

determinant, n. 4. In biol., in Weismann's doctrine of germ-plasm, the material bearer of all the hereditary qualities of a cell, regarded as composed of as many biophores, or bearers of single hereditary qualities. as are to be possessed by the cell and its descendants.

I shall designate . . . the particles of the germ-plasm determining them [the cells] as the 'determining parts' or 'determinants.' Weismann (trans.), Germ-plasm, p. 57.

determining them [the cells] as the 'determining parts' or 'determinants. Weismann (trans.), Germ-plasm, p. 57.

Accessory determinant, according to Weismann. a determinant of the accessory germ-plasm. See *germ-plasm. Dootrine of determinants, in biol., that part of Weismann's doctrine of germ-plasm which regards each cell as represented in the germ-plasm by a determinant often used as synonymous with the doctrine of germ-plasm.— Heterodynamous determinant, in Weismann.— Germ-plasm, one of the determinants which are the bearers of the hereditary qualities of cells that are different in the two parents.—Heterologous determinant, in Weismann's doctrine of germ-plasm, one of the determinants which are the bearers of the parents, so that the cells which they control in the developing organism cannot exhibit the qualities of both parents in combination.—Homodynamous determinant, in Weismann's doctrine of germ-plasm, one of the determinants which are the bearers of the hereditary qualities of cells that are alike in the two parents.—Homologous determinant, in Weismann's doctrine of germ-plasm, one of the determinants which are the bearers of the hereditary qualities of homologous cells in both parents, so that the cells which they control in the developing organism may exhibit the qualities of both parents, so that the cells which they control in the developing organism may exhibit the qualities of both parents in combination.—Leading term of a determinant, in math., the product of the elements (constitu-

ents) in the principal diagonal.— Supplementary determinant, according to Weismann, one of the determinants to which the identity between the constituent cells of a lost part of the body of an organism and the part that is regenerated in its place is due.—Term of a determinant. From the array choose n different elements (constituents) such that there is one and only one element from each row and column, multiply these elements together, the product will be a term of the determinant.

determinate, a.— Determinate growth, in bot. See *growth.— Determinate number. See *number.— Determinate variation. See *variation.
II. n. In Weismann's doctrine of determinate variation.

nants, any cell which has distinctive hereditary qualities.

I shall designate the cells or groups of cells which are independently variable from the germ onwards as the 'hereditary parts' or 'determinates.'

Wetsmann (trans.), Germ-plasm, p. 57.

determination, n. 14. In bot. and zoöl., the identification, classification, and naming of

identification, classification, and naming of specimens of plants or animals.

determine, v. i. 4. In Oxford and other universities, to take part in a solemn disputation preparatory to graduation as master of arts. See determination, 12.

deterrent, n. 2. A substance used in the manufacture of smokeless powder to moderate the violence of the explosion and to diminish sensitiveness to shock. Vaseline, camphor, etc.. are so employed.

so name the Epistle to the Hebrews and the Pastoral Epistles.

deuteroplasm (dū'te-rō-plazm'), n. [Gr. δείντερος, second, + πλάσμα, anything formed.]

Same as deutoplasm.

deuteroplasma (dū'te-rō-plaz'ma), n. [NL., + πλάσμα, anything formed.] Same as paramitom.

deuteroproteose (dū'te-rō-prō'tṣ-ōs), n. Same as *deutero-albumose.

deuteroplasma (dū'te-rō-plaz'ma), n. [NL., + πλάσμα, anything formed.] Same as deutoplasma.

deuteroplasma (dū'te-rō-plaz'ma), n. [NL., + πλάσμα, anything formed.] Same as deutoplasma.

as tinware or tin scrap.

betinue of goods in frank marriage, in old Eng.

law, a writ which lay in favor of a wife who had obtained a divorce, to recover the property given with her in mar-

Detonating fuse, oil, etc. See *fuse², *oil, etc. detortion, n. 2. In biol., the symmetry of a straight organism whose ancestors were twisted. [Rare.] Encyc. Brit., XXX. 796. detritus, n. 3. In pathol., caseous or other disorganized material formed by the destruction of living tiesue.

tion of living tissue.

Detrusor urinse, the muscular coat of the bladder, especially the longitudinal fibers.

detter, n. A simplified spelling of debtor.
deuteragonist (dū-tėr-ag'ō-nist), n. [Gr.
δευτεραγωνιστής, < δεύτερος, second, + άγωνιστής,
actor: see agonist.] In the Gr. drama, an
actor who played the second part, after that
of the protagonist.

deuteranope (dū'ter-an-op). n. [See *deuter anopia.] In psychophys., one who is afflicted by the form of red-green blindness known as

by the form of red-green blindness known as deuteranopia. Baldwin, Dict. of Philos. and Psychol., I. 274, II. 787.

deuteranopia (dū-tėr-an-ō'pi-ā), n. [NL.. < Gr. deitrepor, second, + NL. anopia, blindness.]
In psychophys.. a form of red-green colorblindness; the so-called green-blindness.

deuterencephalon (dū-tėr-en-sef'a-lon), n. Same as *deutocerebrum. Encyc. Brit., XXIX. 499.

deutero-albumose (dū"te-rō-al'bū-mōs), n.
One of a group of albumoses, also known as
secondary albumoses, which are formed during the process of proteolytic digestion. During gastric digestion their formation is preceded by that of the primary albumoses. They can all be precipitated by saturation with ammonium sulphate, partly in neutral and partly in acid solution. The digestion of fibrin leads to the formation of at least four deutero-albumoses. See **albumose* and digestion-products, under **digestion*.

deutero-caseose (dū"te rō-kā'sē-ōs), n. Adeutero-albumose derived from casein.

sponge-spicules, an actine bearing branches of the second order. **deuterocone** (dū'te-rō-kōn), n. [Gr. dείτερος, second, + κῶνος, cone.] The inner and anterior cusp of an upper premolar. **deuteroconid** (dū'te-rō-kon'id), n. [Gr. dείτερος, second, + κῶνος, cone. + -id².] The inner and anterior cusp of a lower premolar. **deutero-elastose** (dū'te-rō-ệ-làs'tōs), n. A deutero-albumose derived from elastin. **deutero-fraction** (dū'te-rō-fraction) (

deuterofraction (dū#te-rō-frak'shon), n.

moses, which result from the albumins on proteolytic digestion, can be separated: spoken of as deuterofraction A, B, C, etc.

deuterogamy, n. 2. In bot., a form of nuclearfusion in certain cryptogams which is subsequent to the sexual act and superposed upon it. P. Groom.

deutero-Isaiah (dū'te-rō-ī-zā'yā, or-ī-zī'yā), n. The name applied by some modern critics to the author of chapters xl.-lxvi. of the book of Isaiah; also, this part of the book, which was probably written at the end of the Babylonian exile.

deutero-Nicene (dū'te-rō-nī'sēn), a. deutero-Nacene (du te-ro-m sen), a. Fertaining to the second Nicene council. See Nicene. deutero-Pauline (du te-ro-pa lin), a. The designation of certain writings similar in character to the epistles of Paul, but considered to be from another hand. Some critics

sensitiveness to shock. Vaseline, camphor, etc., are so employed.

deterrently (de-ter'ent-li), adv. In a manner to deter; as a deterrent: as, the possibility of being called to account has acted deterrently.

deth, n. A simplified spelling of death.

dethyroid-ized dethir'roi-dized, p. a. [de-+ thyroid + -ize + -ed².] Deprived of the thyroid gland. Buck, Med. Handbook, VI. 410.

detin (de-tin'), v. t.; pret. and pp. detinned, ppr. detinning. [de-+ tin.] To remove the tin from (articles plated with tin).

detinning (de-tin'ing), n. The operation of removing the tin from articles plated with tin, as tinware or tin scrap.

deuterosaurian (dū'te-rē-sâ'ri-an), a. and n.

1 a. Pertaining to or having the characters of Deuterosaurus.

H. n. A member of the genus Deuterosaurus.

Deuterosaurus (dū'te-rē-sâ'ri-an), a. and n.

Euterosaurus.

11 n. A member of the genus Deuterosaurus.

defirepo, second, + σαϊρος, a lizard.] A genus of extinct theromorphous reptiles of the family Deuterosauridæ, having double-headed ribs, large canine teeth serrated on the edges, no occurs in the Permian formation.

deuterosaurus.

Same as deutero-albumose.

deuterosaurian (dū'te-rē-sâ'ri-an), a. and n.

1 a. Pertaining to or having the characters of Deuterosaurus.

Deuterosaurus.

detin (de-tin'), v. t.; pret. and pp. detinned, ppr. detinning (de-tin'), v. t.; pret. and pertaining to or having the characters of Deuterosaurus.

H. n. A member of the genus Deuterosaurus.

detinerosaurus (dū'te-rē-sâ'ri-an), a. and n.

la Pertaining to or having the characters of Deuterosaurus.

H. n. A member of the genus Deuterosaurus.

letterosaurus (dū'te-rē-sâ'rus), a. and n.

la a. Pertaining to or having the characters of Deuterosaurus.

H. n. A member of the genus Deuterosaurus.

letterosaurus.

detinerosaurus.

Servepo, second, + σαϊρος, a lizard.] A genus of extrepo, second, + σαϊρος, a lizard.] A genus of extrepo, second, + σαϊρος second, + σαϊρος

Same as deuteroscopia (du'te-rō-sko'pi-a), n. [NL.] Same as deuteroscopic (dū'te-rō-skop'ik), a. Of or pertaining to deuteroscopy or second sight: as, the deuteroscopic faculty. deuterostrophy (dū-te-ros'trō-fi), n. [Gr. δείτερος, second, + στροφή, turning.] In phyllotaxy, a spiral of the third degree.

deuterosystematic (dū'te-rō-sis-te-mat'ik). a. Of or pertaining to a second or secondary sys-

deuterotokous (dū-te-rot'ō-kus), a. [Gr. dεὐτερος, second, + -τόκος, < τεκείν, bring forth.]
Of or pertaining to deuterotoky or the parthenogenic generation of both male and female offspring.

deuterotoky (dū-te-rot'ō-ki), n. [Gr. δείτερος, second, +-τοκία, <-τόκος, <τεκεῖν, bring forth.] A form of parthenogenesis in which the virgin female gives birth to offspring of both sexes, as the so-called sexual generations in the Δphididæ and Cynipidæ. Cambridge Nat. Hist., V. 141 141.

deuterotoxin (dū"te-rō-tok'sin), n. A deriva-tive of a toxin which has a less marked affinity for the corresponding antitox in than prototox in.

deuterozoic (dū"te-rō-zō'ik), a. [Gr. δεύτερος, second. + ζωή, life, + -ic.] In geol., a term proposed to designate the later Paleozoic formations (Devonian, Old Red Sandstone, and Carboniferous system) of Great Britain, in distinction from the second control of tinction from the earlier ones: not now in use.

deuthyalosome (dūt-hī-al'ō-sōm'), n. [Gr. δείτ(ερος), second, + ὑαλος, glass, + σῶμα, body.] In cytol., the nucleus remaining in the egg after the formation of the first polar body. Van Beneden, 1883.

deutobrochal ($d\bar{u}$ - $t\bar{\phi}$ -br $\bar{\phi}$ 'kal), a. [Gr. $d\epsilon i\tau$ - $(\epsilon\rho\sigma_c)$, second, + $\beta\rho\dot{\phi}_{A}\sigma_c$, a noose, a mesh.] Noting one of the stages in the intra-ovarian development of the occyte, the chromatin being coarsely reticular and the nucleus showing one or two nucleoli. Buck, Med. Handbook,

deutero-caseose (dū*te-ro-km se-se), tero-albumose derived from casein.

deuterocladus (dū-te-rok'la-dus). n. [NL., < Gr. δείτερος, second, + κλάδος, branch.] In sponge-spicules, an actine bearing branches of the second order.

deuterocone (dū'te-rō-kōn), n. [Gr. δείτερος, second, + κῶνος, cone.] The inner and anterior cusp of an upper premolar.

deuteroconid (dū*te-rō-kon'id), n. [Gr. δείτερος, second, + κῶνος, cone. + -id².] The frame of an insect which comprises the antennal or olfactory lobes; the second lobe of an insect's brain. Also called deuterencephalon.

λ. δ. Packard, Text-book of Entom., pp. 231, 237.

deutonephron (dū-tō-nef'ron) n.; pl. deutonephron (dū

deutonephron (dū-tō-nef'ron) n.; pl. deuto-nephra (-rā). [Gr. δεύτ(ερος), second, + νεφρός, kidney.] The mesonephron or Wolffian body. of the groups into which the deutero-albu-deutoplasm, n. 2. Same as *deuteroplasma.

deutoplasmogen (dū-tō-plaz'mō-jen), n. [Gr. developmentalist (dē-vel-up-men'tal-ist), n. dείπ(ερος), second, + πλάσμα, anything formed, + -γενής, -producing.] In embryol., that portion of the egg-cytoplasm which forms or is converted into deutoplasm.

deutosomite (dū-tō-sō'mīt), n. The posterior of the two somites into which the segment in the Hexapoda and Chilopoda is more or less theoretically supposed to be divided. Science.

theoretically supposed to be divided. Science, March 27, 1903, p. 485.

devastative (dev'as-tā-tiv), a. Destructive; that wastes or ravages: as, devastative floods. that wastes or ravages: as, devastative floods. devastavit, n.—Devastavit by direct abuse or direct devastavit, in law, actual embezzlement of the property of an estate by an administrator, executor, or other trustee, or the conversion of the same to his own use; also the wilful release of a claim due the estate, or the surrender of a lease below its value; and generally any culpable act by which the property is actually wasted or lost.—Devastavit by maladministration, in law, payment, by an executor, administrator, or other trustee, of claims against an estate that are not actually due or owing, or payment out of the order in which claims ought to be paid, or payment of legacies prior to debts; and generally any disposition of the funds that may cause a loss to a preferred class, although not benefiting the trustee.—Devastavit by neglect, in law, a negligent act or omission, upon the part of an executor, administrator, or other trustee, which results in loss to the estate: for example, failure to sell goods at a fair price within a reasonable time, neglect to collect a doubtful debt that might with diligence be collected, etc.—Writ of devastavit, in law, a writ that lies against an executor, administrator, or other trustee to recover damages for a devastavit.

develop, v. t.—To develop one's game, in chess, to proceed in the line of one's intended tactica.—To develop out, to subject to a photographic process which requires the use of chemicals, usually in a dark place, for the production of the image: contrasted with to *print out. See *print.

developable, a. 3. If, in the series given for a function by a development formula, the general expression for the error decreases indefieral expression for the error decreases indefi-nitely as we increase the number of terms, the sum will approach as its limit the value of the function, which is then said to be developable. developing-machine (dē-vel'up-ing-ma-shēn'), n. A machine for developing photo-graphic plates or rolls of films. development, n. 3. (b) The generation of a new living being considered inductively as a fact, without reference to the question whether

fact, without reference to the question whether it is to be regarded as evolution or unfolding, or as epigenesis or new formation; the subject-matter of the science of descriptive embryology or embryogeny.—6. (c) Specifically, the second section of a movement in sonata form or the central portion of a fugue, in which the thematic material in the subject or subjects is unfolded and variously treated. or subjects is unfolded and variously treated. Also called the working-out or the development section.—7. In chess, the movements by which a player in the early part of the game places his pieces in position for future action.—Dislocation of development, the development of embryonic organs out of their proper order or position.—Induced development, the generation of a new living being from an egg, considered as epigenesis or new formation and as the result of the reciprocal interaction between it and its environment. Embryologists and writers upon speculative biology commonly hold that the conception of induced development or evolution or unfolding and the conception of induced development or epigenesis or new formation are contradictory and mutually exclusive; but there are many facts and theoretical considerations which show that the organism is neither inherent in the germ nor induced by the conditions of its existence and development, because it is in the reciprocal interaction between the two. The organism would not be what it is if either the constitution of the germ or the conditions under which its development takes place had been different. From this point of view it is a great an error to locate development, either individual or ancestral, in the conditions of existence as it is to locate it in germ-cells. It exists in neither, because it is in the relation between the two, and the prominence of the one or of the other in the mind of the investigator is dependent upon the purpose that he has in view in making the comparison. The contradiction between the notion of induced development and that of inherent development is not in germ-cells nor in living beings, but in the mental concepts of the biologist, who names, and tries to separate in his mind, what is not separable in fact. See inherent *development* and *innate, 3.—Inherent development* and provide the investion of a new living being through the unfolding or evolution or manifestation to sense of the organization which is held to have been invisi Also called the working-out or the development section.—7. In chess, the movements by which

developoid (dē-vel'up-oid), n. [= It. svilup-poide; irreg. \(\lambda\) develop + -oid.] Of a given primitive curve, a curve such that each of its tangents is cut by the primitive at an angle ω which is any function whatsoever of the coordinates of the point of intersection. When dinates of the point of intersection. When this angle is constant, the developoid is called ordinary. Beltrami.

devenerunt (dev-e-ne'runt), n. [L. devene-runt, '(they) have come.'] In old Eng. law, a writ which lay in favor of the king, to determine what lands and tenements 'have come' to the crown by escheat by reason of the death

of a tenant in capite.

deviability (de-vi-a-bil'i-ti), n. In phys., the property of being capable of deflection from a path, as cathode rays, by the action of a magnet.

deviation, n.—Angle of deviation. See *angle3.— Standard deviation. (a) In biol., the index of varia-bility. See variability.—(b) If the law of error be stated

by the equation $z = \frac{1}{\sqrt{\pi c}} e^{-\frac{(z-d)^2}{c^2}}$, , more conveniently

written $(1/\sqrt{\pi c})$ exp $-(x-d)^2/c^2$, then $c/\sqrt{2} = \sigma$ is called by Pearson the standard deviation. The square root of the average of the squared departures from the mean in both directions is a measure of variability called the stan-

eviative (dē'vi-ā-tiv), a. [deviate + -ive.]

Of, pertaining to, or producing deviation, deflection, or divergence. Lockyer.

deviator, n. 2. An appliance for altering the course of a balloon by resistance against water. The appliance is suspended from the balloon by a cord and floats in the water. See the extract.

A strap at each end carries a rope passing to the balloon. When the ropes are of unequal length the deviator takes an oblique position and gives a steering effect; when the ropes are equal the blades become parallel to the direction of movement and there is no deviation and but little resistance. This instrument is, in fact, a multiple rudder of the simplest form. Both these deviators have been designed to keep at a certain depth below the surface of the water.

Sci. Amer., Oct. 28, 1901, p. 266.

devil, n., 9. (f) A machine for unloading grain from the hold of a vessel. N. E. D.—(g) A small, portable charcoal-furnace used in foundries for drying molds. It is constructed of a light iron latticed frame and is usually suspended in the mold.

A junior counsel who assists his superior, 11. A junior counsel who assists his superior, usually without financial reward. [Eng.]—12. In math, a curve whose equation is $y^4 - x^4 + ay^2 + bx^2 = o$.—13. A 'literary' or professional 'hack'; one who does professional work for another who gets all the credit.—14. Gunpowder moistened with water or alcohol so as a decrease the grapulation and forms. to destroy the granulation and form a paste: used as a sort of firework by boys, and as a priming or fuse.—15. A moving whirlwind carrying up columns of sand, such as are common in India, Persia, and countries having or casengs; synctimes called descination of the contribution of the c mon in India, Fersia, and countries naving dry seasons: sometimes called dancing-devil or desert devil, and known in upper India by the local name bagoola (Hind. bagūla).—16. A highly seasoned dish of crabs, chicken, eggs, highly seasoned dish of crabs, chicken, eggs, or the like, cooked together.—Devil's bedposts. See *bedpost.—Devil's coach-horse. (b) Ocypus olens, a large European rove-beetle, of the family Staphylinide, of savage appearance and habits and foul odor. (c) The wheel-bug. Also called the devil's riding-horse.—Devil's corkscrews. See *Daimonelix.—Devil's darningneedle. (c) A name commonly applied to any common species of dragon-fly. (d) The American or Virginia virgin's-bower, Clematis Virginiana, so named from its gossamer-like fruit.—Devil's hop-vine, the greenbrier or cat-brier, Smilax rotundifolia.—Devils on horseback, a savory dish made of oysters fried or broiled with a small pleed of crisply fried bacon astride of each.—Devil's riding-horse. Same as *devil's coach-horse.—Hickory horned devil, the larva of an American ceratocampid moth, Citheronia regalis. See cut under royal horned caterpillar.

devil, v. II, intrans. To do professional work (literary or legal) for another who receives all

(literary or legal) for another who receives all the credit, and sometimes also the remunera-

tion or fee; act as a literary or legal devil.

devil-dancer (dev'l-dan'ser), n. In India, a person who believes himself inspired and who performs dances like the whirling dervishes. See derrish

devil-dancing (dev'l-dan"sing), n. The performances of the devil-dancers of India.

devildom (dev'l-dum), n. [devil + -dom.] The realm, domain, or sway of the devil; diabolic power or its exercise. Tennyson, The Revenge.

She meant a commination, or, at best, An exorcism against the *devildom* Which plainly held me. *Mrs. Browning*, Aurora Leigh, it.

deviler (dev'l-er), n. 1. One who operates a machine known in England as devil and in the United States as rag-picker or shoddy-picker.— 2. One who attends a hard-waste breaker in One who attends a hard-waste breaker in a cotton-factory. — 3. A rag-shaking machine. — 4. One given to patient and laborious research. [Slang.]
 devil-fish, n. (d) Any large cuttlefish, as an octopus or an architeuthis. (e) Lacepedia cataphracta, a fish found in Australian waters.
 deviling² (dev'l-ing), n. Acting as a 'devil'

or office hack; literary or legal hack-work: as, a young barrister engaged in deviling. [Colloq.]

Devillian (de-vil'i-an), a. and n. [Deville, a town of France.] I. a. In geol., pertaining to the lowest division of the Cambrian system

in the Ardennes mountains of Belgium.

II. n. The Devillian division.

devil's-apple (dev'lz-ap'l), n. 1. See apple,
3.—2. The thorn-apple, Datura Stramonium.

devil's-bean (dev'lz-ben), n. [West Indian.]

Same as bottle-cod.

devil's-bite (dev'lz-bīt), n. The American hellebore or Indian poke, Veratrum viride. devil's-bones (dev'lz-bōnz), n. The wild yam,

devil's-bones (dev'lz-bonz), n. The wild yam, Dioscorea villosa. See wild yam (a), under yam. devil's-claw, n. 2. In bot., a small spiny tree, Acacia Greggii, of the southwestern United States and northern Mexico. It sometimes reaches 30 feet in height and a foot in diameter, and bears bright creamy-yellow flowers in spikes and long, crooked, pendent pods. The wood is hard, heavy, fine-grained, durable, and strong, and of a rich brown or red color. It is called una de gato by the Mexicans, and shares with A. Wrightii the name of cat's-claw.



Devil's-claw (Acacia Greggii). (From Sargent's "Manual of the Trees of North America.")

devil's-claws (dev'lz-klåz), n.

crowfoot, Ranunculus arvensis: so called from its bur-like fruit.

devil's-fingers (dev'lz-fing gerz), n. The bird's-foot trefoil, Lotus corniculatus. Compare crob-toe.

levil's-flax (dev'lz-flaks), n. The toad-flax, Linaria Linaria.

devil's-flower (dev'lz-flou'er), n. The red campion, Lychnis dioica. Also called adder's-Amer.

flower.
devil's-grandmother (dev'lz-grand'mufher), n. The woolly elephant's-foot or tobaccoweed, Elephantopus tomentosus.
devil's-grass (dev'lz-gras), n. 1. The jointgrass, Paspalum distichum.—2. The couchgrass, Agropyron repens.—3. The gum succory, Chondrilla juncea.—4. Same as Bermuda
grass. See under grass and Canadon. 1—K cory, Unondrilla juncea.—4. Same as Bermuda grass. See under grass and Cynodon, 1.—5. Same as bur-grass, 1.
devil's-greens (dev'lz-grēnz), n. Same as *devil's-grass, 3.
devil's-grip (dev'lz-grip), n. The carpet-weed, Molluon verticillata

devil's-grip (dev'lz-grip), n. The carpet-weed, Mollugo verticillala.
devil's-guts, n. 2. The corn spurrey, Sperqula arvensis.—3. In Australia, the dodder-laurel, Cassytha filiformis. See *dodder-laurel. devil's-hair (dev'lz-hār), n. The American virgin's-bower, Clematis Virginiama.
devil's-head-in-a-bush (dev'lz-hed-in-a-bush'), n. The bladder-ketmia or flower-of-an-hour, Hibiscus Trionum.
devil's-herb (dev'lz-erb), n. A trailing or climbing plant, Plumbago scandens: so called from the use of its root and leaves as a blistering ageut. See Plumbago, 2.

gal devil. tering agent. See Plumbago, 2.
In India, a devil's-horn (dev'lz-hôrn), n. Same as stink-

devil-shrimp (dev'l-shrimp), n. A slender crustacean with long-stalked eyes, of the genus Lucifer.

devil's-ironweed (dev*lz-ī'ern-wed), n. arrow-leaved lettuce, Lactuca sagittifolia, of eastern North America; also, less commonly, the wild lettuce, L. Canadensis.

hawkweed or golden mouseear, Hieracium aurantiacum, from the pencil-like pappus. The name is also applied to the king-devil, H. præaltum, which somewhat resembles the first-named plant: both have be-come pests in the United States.





pich forks), n. Devil's-paint-brush (Hieracium au. The common cum). One fourth natural size

beggar's-ticks or sticktight, Bidens frondosa. The bicuspidate fruit resembles the times of a pitchfork.

devil's-plague (dev'lz-plag), n. The wild carrot, Daucus Carota, which is a plague to farmers, especially in America. See carrot (cut).

and Daucus (cut).
devil's-rattlebox (dev'lz-rat'l-boks), n. The
bladder-campion, Silene vulgaris, the seeds of
which when ripe rattle in the inflated pod.
devil's-root (dev'lz-röt), n. The lesser broomrape, Orobanche minor, which is injurious to
clover upon the roots of which they are paraitis in the practical complete the devil's sitic. The name is also applied to the devil'sbit, Scabiosa Succisa.

devil's-tether (dev'lz-teff'er), n. The black

bindweed, Polygonum Convolvulus.
devil's-tongue (dev'lz-tung), n. 1. The
prickly-pear, Opuntia, especially O. Opuntia
and O. humifusa: so called from the spiny
tongue-shaped branches or joints.—2. See

*Amorphophallus.
devil's-trumpet (dev'lz-trum'pet), n. The jimson-weed, Datura Stramonium: so called from the trumpet-shaped flowers.

devil's-vine (dev'lz-vin), n. The hedge-bind-weed, Convolvulus sepium.

devil's-walking-stick (dev'lz-wâ'king-stik), n. The ailantus tree, Ailanthus glandulosa. devil's-weed (dev'lz-wēd), n. Same as *devil's-

devirilize (dē-vir'il-īz), v. t.; pret. and pp. de-virilized, ppr. devirilizing. [de-+virile+-ize.] To rob or deprive of virility or vigor; emasculate; deprive of vitality or force; weaken.

It would be difficult to find a better illustration of the devirilizing effects of transcendental and idealistic habits of thought, than in these pages [a book under review], which are so chastened and refined that all vitality seems to have gone out of them.

Amer. Jour. Psychol., XII. 277.

devize, v. Same as devise.

devize, v. Same as devise.

devolutive (dev-ō-lū'tiv), a. [devolut(ion) +
-ive.] That is of the nature of, or involves,
devolution. N. E. D.
devolv, v. A simplified spelling of devolve.

Devon (dev'on), n. The name of a shire (Devonshire) in England, applied specifically to a
breed of dairy cattle noted for their docility
and the quality of their milk. The color is red,
varying from dark to pale chestnut, but there must be no
mixture of black or white. The skin is yellow, the hair
soft, and the general appearance symmetrical.

Devonia (dē-vō'ni-ā), n. [NL. Devonia, Devon,
Devonshire.] In geol., the region of Devonian
rocks, without regard to geographical limitation; the Devonian rocks.

Devonian, I. a. This term was first applied in geology

tion; the Devonian rocks.

Devonian, I. a. This term was first applied in geology by Sedgwick and Murchison to a series of rocks in North and South Devon and Cornwall in which fossils had been found which were recognized by Lonsdale as intermediate in character between Silurian and Carboniferous. The lower and upper limits of the formation were not defined in Britain, but were more precisely determined by the same geologists in the Rhineland. So uncertain, however, were the bounds assigned to the base of the formation that more recent study in various countries has added to the lower part of this system considerable beds that had before been assigned to the Silurian system. Strictly applied, the term Devonian implies the rocks bearing the marine faunas of that time and is contrasted with the Old Red Sandstone, which is a formation sometimes different lithologically and which represents the lake, lagoon, or delta deposits of the same age.

II. n. 1. A native or inhabitant of Devonshire.—2. In geol., the Devonian series.

Devonshire cream. See *cream1.

devil's-needle (dev'lz-ne'dl), n. The salt- devotionalism (de-vo'shon-al-izm), n. [devo- dew-rake (du'rak), n. A rake for the surface

To remove sulphur from, as vulcanized

ize.] To remove sulphur from, as vulcanized india-rubber, and restore to the condition of the original material. There have been numerous attempts to do this, but none of them has been effective, only partial restoration of plasticity having been attained. dewberry, n., 2. The dewberry has now been improved to such an extent that it has become an important cultivated fruit. The improved forms are derived from native North American species. The most prominent garden kind is the Lucretia, derived from the wild Rubus roribaccus. The Bartel, another cultivated form, is derived from Rubus invieus; others, in the southern United States, from Rubus invieus; others, in the southern United States, from Rubus vitifolius. The dewberries are trailing, blackberry-like plants. There are hybrids between the common wild dewberry of the northern United States, Rubus procumbens, and the high-bush blackberry (R. nigrobaccus). In cultivation, the dewberries are usually trained to stakes or trellises.—California dewberry, Rubus vitifolius, a somewhat trailing species with 3-5-foliate leaves, ovate to oblong coarsely tothed leafets, and oblong, sweet berries: common in the coast ranges of California from San Diego county to the Fraser river, and also in Idaho.

dew-bit (dū'bit), n. A light breakfast taken very early, before the regular breakfast. [Eng. dial.]

dial.]
dew-bow (dū'bō), n. A halo or rainbow seen on a surface covered with drops of dew. An analogous bow has occasionally been seen by reflection from drops of water, resting upon a layer of dust, which have been formed by the gentle fall of particles of fog. Both lunar dew-bows and solar dew-bows have been observed; and both principal and supernumerary dew-bows, analogous to the ordinary double rainbow, have been recorded.

dew-cap (dū'kap), n. A prolongation of a telescope-tube beyond the object-glass, intended to prevent deposition of dew, and also to exclude stray light. A small telescope should be provided with a dew-cap, bright without, but dead-black within, and having a length equal

dewdrop, n. 2. In bot., an American rosaceous plant, Dalibarda repens, related to the strawberry, with long-petioled, ovate-orbicular, cordate and crenate leaves, and white flowers on long peduncles. The fruit consists of several dreschoic inclosed in the colleged of the control of the cont dry achenia inclosed in the enlarged calyx. It also bears cleistogamous flowers.

dew-flower (du'flou'er), n.

dew-grass, n. 2. The whitetop proper, Agrostio alba. Also called white bent, English bent, tio alba. Also called white bent, English bent, etc. When this grass has a purple or brown color, the redtop proper, it is called summer

dewlap, n. 5. A brand or ownership-mark on the dewlap of an animal. [Western U. S.] dew-leaves(dū'lēvs), n. pl. Upwardly inclined

leaves adapted for the collection of dew. dew-moth (dū'môth), n. An English collectors' name for a European moth, Setina irrorata: from its habit of flying in the early morning.

from its habit of flying in the early morning.

dew-point, n.—Complement of the dew-point, the number of degrees by which the temperature of the dew-point is below the temperature of the the dew-point is below the temperature of the sir.—Depression of the dew-point. Same as complement of the *dev-point.—Dew-point apparatus, apparatus for determining the dew-point. That devised by Regnault consisted of a polished silver cup containing ether in the center of which was immersed the bulb of a delicate thermometer. A current of air blown through the ether hastened its evaporation, cooling it down until the outside of the silver cup showed a deposit of dew; the temperature corresponding was the desired dew-point. Modifications of this apparatus have been made by Alluard, Crova, Abbe, and others, in order to secure greater delicacy or freedom from disturbing currents of wind. The deposition of dew depends to a considerable extent upon the nature of the surface and the perfection of its polish. The deposition begins upon the points or spots where a slight roughness exists, but is detected soonest where the surface is polished.—Trouton's electrical dew-point hygrometer. ee *hygr

dew-pond (du'pond), n. A small and shallow dextrorotatory, a. 2. In bot., turning or twin-pond, usually artificial, located on ridges or ing to the right. See right-handed, 3. hills where no adequate supply of water is possible from surface-drainage or from springs.

The water is collected by condensation from the air day, which is prepared from rapid even. nills where no adequate supply of water is possible from surface-drainage or from springs. The water is collected by condensation from the air dew, which is prevented from rapid evaporation by the means employed. The practice of making dew-ponds is common in Berkshire, England. A wide, shallow hollow is made, dry straw is spread over it, and upon this is laid a layer of finely puddled clay, which is in turn closely strewn with stones. The pond then gradually fills with water.

We have no waters to delight
Our broad and brookless vales—
Only the dew-pond on the height
Unfed, that never fails.
R. Kipling, The Five Nations (Sussex).

devil s-needle (dev'iz-ne'dl), n. The sair devolutionalism (de-vo'shon-a-l-izm), n. [devo-dew-rake (du'rak), n. A rake for the surface marsh mosquito of the Atlantic coast of the unit + -ism.] Devotional character.

United States, Culex solicitans. [New Jersey.] devotioner (de-vo'shon-er), n. One who belongs to a religious society of a devotional character of a devotional so named because it is usually found while the character. N. E. D. De Vriesian.

pānt'brush),

n. The orange devulcanized (de-vulcanizing. [de-+vulcan-devulcanized, right, + kapôia, heart.] Same as devulcanized (de-vulcanized).

dew is on the herbage.

dexiocardia (dek'si-ō-kär'di-ä), n. [NL., ζ
Gr. δεξιός, right, + καρδία, heart.] Same as dextrocardia.

dexiotrope (dek'si-ō-trop), a. Same as dexio-

dexiotropic, a. 2. Turning to the right hand or in a clockwise direction: said of the direction of cleavage in the eggs of certain inverte-

dexiotropically (dek'si-\(\bar{q}\)-trop'i-kal-i), adv. In a dexiotropic manner.

dexiotropism (dek-si-ot'rō-pizm), n. The state

of being dexiotropic.

Dexter aspect. See *aspect.

dextraural (deks-trâ'ral), a. [L. dexter, right, + auris, ear, + -all.] Hearing more distinctly with the right ear than with the left.

dextrinase (deks'tri-nas), n. [dextrine + -ase.] In chem., a supposed distinct enzym, forming part of the diastase of malt, believed to convert starch into maltodextrine.

dextrinate (deks'tri-nāt), n. [dextrine + -atel.]
A compound of dextrine: applied specifically
to a compound of iron and dextrine used in medicine.

dextrinize (deks'tri-nīz), v. t.; pret. and pp. destrinized, ppr. dextrinizing. [dextrine + -ize.]
To convert partially or wholly into dextrine.
Various farinaceous foods for infants are thus transformed, usually by simple heating, and the product sometimes gains in digestibility by this treatment.

dextrinized (deks'tri-nizd), p. a. Having the contained starch converted into dextrine: as, dextrinized bread.

dextrinous (deks'tri-nus), a. [dextrine + -ous.]

Of or pertaining to dextrine.

dextrocamphene (deks'tro-kam-fen'), n. See camphene

dextrocardial (deks-trō-kär'di-al), a. [
ter, right, + Gr. kapdia, heart, + -all.]
ing the heart on the right side. Hav-

dextrocerebral (deks'trō-ser'ē-bral), a. [L. dexter, right, + E. cerebral.] Having the right cerebral hemisphere functionally more active

than the left.

Same as daydextrocular (deks-trok'ū-lār), a. [L. dexter, right, + oculus, eye, + -ar³.] Possessing more acute vision in the right eye than in the left.

G. M. Gould, in Pop. Sci. Mo., Aug., 1904, p. 361

dextroduction (deks-trō-duk'shon), n. [L. dexter, right, + ductio(n-), leading.] Movement to the right.

dextroform (deks'trō-fôrm), n. [dextr(ine) + form(aldehyde).] A compound of formaldehyde and dextrine used in surgery as a substitute for jodoform.

ior iodoform.

dextrogyral (deks-trō-ji'ral), a. Of or pertaining to right-handed rotation; having rotatory power in the direction of a right-handed screw: said of crystals or other optically active substances capable of turning the plane of polarization of light toward the right: opposed to *levogyral.

dextromanual (deks'trō-man'ū-al), a. [L. dexter, right, + manualis, of the hand: see manual.] Same as right-handed.

dextropedal (deks-trop e-dal), a. [L. dexter, right, + pes (ped-), foot, + -al.] Using the right foot and leg by preference in kicking, hopping, etc.

dextrorotation (deks-trō-rō-tā'shon), n. In optics, rotation (specifically of the plane of polarization of light) in a clockwise direction: opposed to *levorotation.

dextrosuria (deks-trō-sū'ri-ā), n. [dextrose + Gr. oipov, urine.] Excretion of dextrose in the urine.

dextroversion (deks-tro-ver'shon), n. [L. dexter, right, + versio(n-), turning.] The act of turning to the right side: said of the uterus. dezinc (dē-zingk'), v. t. [de- + zinc.] To remove zinc from, as old galvanized iron. dezincation (dē-zing-kā'shon), n. Same as

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dezincify (dē-zingk'i-fy), v. t.; pret. and pp. dezincified, ppr. dezincifying. [de- + zinc + -i-fy.] To eliminate zinc from, as from an alloy or mixture: usually from lead, as in the Parkes process.

D. F. An abbreviation (b) of Dean of the Faculty. D. F. M. S. An abbreviation of Domestic and Foreign Missionary Society.
dg. An abbreviation of decigram.

dg. A.D. H. D. H. An abbreviation of deadhead or deadheaded.

dhan² (dän), n. [Hind. Hindi dhān, rice, = Pali dhānnam, < Skt. dhānyā, adj., cereal, n., grain, corn.] In India, a general term for rice in the husk.

dharma (där'mä), n. [Skt. dharma.] Established order, usage, custom, rule, duty, virtue, right, law, etc. In Buddhism, the law; the right, law, etc. In canon. Also dhurma.

dharna, dhurna (där'nä, dur'nä), n. [Hind. dharna, put down, set down; dharna denā (as in def.).] A coercive measure resorted to in the East Indies by a creditor, complainant, or claimant, who sits at the door of the debtor, without tasting food, until the debt is paid or the depart of the depart is paid or the depart of the depart is paid or the depart is paid or the depart is the sit depart. the demand is complied with: as, to sit dharna

(or in dharna).

(or in dharna).

dhotee, n. 2. A striped cotton fabric woven in suitable lengths for winding about the loins. It is manufactured extensively in Great Britain for the East Indian trade; is woven in all widths from 22 to 50 inches, and in lengths of 40 vards.

dhurrin, n. See *durrin.

D. Hy. An abbreviation of Doctor of Hygiene,
a degree conferred by Durham College, Eng-

diabase, n iiabase, n.— Ash-bed diabase, a local term used on Keweenaw Point, Lake Superior, for an igneous rock resembling a conglomerate, but regarded by Wadsworth as a scorisceous, amygdaloidal sheet into which much sand was washed during its early history.

was washed during its early history.

diabetes, n.— Bronsed diabetes, a form of diabetes in which there is a discoloration of the skin, due to a deposit of blood-pigment, and usually also cirrhosis of the liver.— Cerebral diabetes, excretion of cerebrose in the urine.— Diabetes alternans, diabetes which alternates with gouty attacks.— Pancreatic diabetes, diabetes due to disease of the pancreas.— Phloryin diabetes, excretion of sugar in the urine following the ingestion of phlorizin.— Phosphatic diabetes, a morbid condition in which there is a profuse excretion of urine containing phosphates, but not always sugar.— Puncture diabetes, excretion of sugar in the urine, experimentally produced in animals by puncture of the medula oblongate.

Diabetic cataract, center, etc. See *cataract, *center*1, etc.

diabetogenic (dī'a-bē-tō-jen'ik), a. [diabetes + -genic, -producing.] Producing diabetes. diablo (dē-ā'blō), n. [Cuban use of Sp. diablo, diablo (dē-ā'blō), n. [Cuban use of Sp. diablo, devil.] The Cuban name of the bat-fish, Og, cocephalus respertitio. See cut under bat-fish. diablotin (dē-ā-blō-tan'), n. [F., dim. of diable, devil.] 1. An imp; a little devil. Scott.—2. (a) In the French West Indies, one of the petrels, Œstrelata hæsitata. (b) In Trinidad, the guacharo, Steatornis caripensis.

diabolatry (dī-a-bol'a-tri), n. [For *diabololatry, ⟨ Gr. daisoλof, the devil, + λατρεία, worship.] Worship of the devil.

His infinite and illimitable charity of imagination could

His infinite and illimitable charity of imagination could transfigure even the most monstrous historic representative of Christian or Catholic diabolatry into the likeness of a terribly benevolent and a tragically magnificent monomaniac.

Encyc. Brit., XXIX. 350.

diabolo (di-ä'bō-lō), n. [It. diabolo, diavolo, < L. diabolus, devil.] The game of the devil on two sticks. See devil.

diabolology (dī-ab-ō-lol'ō-ji), n. [Gr. διάβολος, the devil, + -λογια, < λέγειν, speak.] The sum of statements and beliefs concerning devils or

diabolonian (dī-ab-c-lō'ni-an), n. [Diabolus (see def.) + -on- + -ian.] In Bunyan's 'Holy War,' one of the warriors of Diabolus (the Devil) in his attack on Mansoul (man's soul).

diabrosis (dī-a-brō'sis), n. [NL., \langle Gr. διά-βρωσις, \langle διαβιβρώσκειν, eat through, \langle διά, through, + βιβρώσκειν, eat.] Erosion; ulceration: corrosion.

Diabrotica. n.—Corn-root Diabrotica. Same as

diacalorimeter (dī-a-kal-ō-rim'e-ter), n. [Gr. διά, through, + E. calorimeter.] A device for measuring the insulating power of liquids for

tained by the interposition of a perforated metallic screen or gauze, negatively electrified, in the path of cathode rays.

diacetic (di-a-sē'tik), a. [di-2 + acetic.] (Acetoacetic.—Diacetic acid, an acid (CH₃COCH₃CO₂H) sometimes found in the urine under abnormal conditions, notably in diabetes. It is derived by oxidation from oxybutyric acid, and by loss of carbon dioxid gives rise to acetone. Also called acetoacetic acid.

diacetonuria (dī as-ē-tō-nū ri-ä), n. diacet(ic) + -on + Gr. ovpov, urine.] The excretion of diacetic acid in the urine. It may oc-It may occur in the course of infectious fevers or of diabetes, in latter case often preceding the appearance of coma. ... diaceturia.

diaceturia (dī'as-ē-tū'ri-ā), n. [NL., < diace- diadem, n. 6. In embryol., a term applied to t(ic) + Gr. ovpov, urine.] Same as *diaceto- certain eggs in the blastula stage. nuria

diacetyl (dī-as'e-til), n. [di-2 + acetyl.] A yellow compound, CH₃COCOCH₃, the simplest member of the class of aliphatic 1, 2-diketones, prepared from isonitroso methyl-ethyl ketone. It boils at 88° C., has a pungent, sweet

diaclase (di'a-klās), n. [Gr. διάκλασις, a breaking in two (used in fig. sense of 'feebleness'), (διακλᾶν, break in two, ζ διά, apart, + κλᾶν, break.] In geol., a joint: a name suggested by Daubrée. Compare *paraclase and *litho-

Daubrée showed that the valley system of northern France follows a line of rectangular fractures, which he called diaclases.
J. W. Gregory, in Smithsonian Rep., 1898, p. 374.

diaclasite (dī-ak'la-sīt), n. [Gr. διάκλασις, a breaking apart, + -ite².] A partially altered

enstatite.

enstatite.
diaclast (dī'a-klast), n. [Gr. *διάκλαστος, <
διακλάν, break in two, < διά, apart, + κλάν,
break.] An instrument used in perforation
of the fetal skull in craniectomy.
diaclastic (dī-a-klas'tik), a. [As diaclast +
-tc.] Pertaining to or produced by diaclases.

The direction of the Greenland flords is determined by a similar series of intersecting diactastic fractures.

Geog. Jour. (R. G. S.), XIII. 236.

diaclinal (dī-a-kli'nal), a. [Gr. διά, through, + κλίνειν, bend.] In geol., transverse to the axis of a fold.—Diaclinal valley, a valley which cuts across an anticline or syncline. diacodion (di-a-kō'di-on), n. Same as diaco-

diacœlosis (dī'a-sē-lō'sis), n. [NL., < Gr. διά, through, + κοίλωσις, a hollow, lit. a hollowing, < κοιλούν, make hollow.] The division of the œloma or body-cavity into sinuses and channels, as in leeches.

The colome is much restricted by a growth of connective tissue, which splits it up into sinuses and channels, a process termed diacoclosis.

Rolleston and Jackson, Forms of Animal Life, p. 579.

diaconics (dī-a-kon'iks), n. [Gr. διακονικός, of deacons, < διάκονος, deacon.] That branch of practical theology which treats of the science of the 'inner mission,' that is, the mission to the community already Christianized, as distinguished from the 'outer mission,' which reaches out to the unconverted world. It is the study of prestoral duty to the sight the unconverted world. the study of pastoral duty to the sick, the un-fortunate, and the fallen.

diacranterian, a. 2. Having a tooth in the diafanous, a. A simplified spelling of diaphahinder portion of the jaw longer than the other nous.

teeth. This type of dentition is found in some diaforetic, a. and n. A simplified spelling of snakes, the common hog-nosed viper, Hetero-diaphoretic, don, being a good example: opposed to iso-diafragm, n. A simplified spelling of dia-

A snake having a tooth in the hinder 11. n. A shake having a cools in the miner part of the jaw longer than the other teeth.

diacrinous (di-ak'ri-nus), a. [Irreg. ⟨ Gr. διακρίνειν, separate, + -ous.] A term applied to gland-cells which permit their secretion or ex-

gland-cells which permit their secretion or excretion to pass out directly as from a filter: opposed to *ptyocrinous. The kidneys are good examples of diacrinous glands.

diacrisis (dī-ak'ri-sis), n. [NL., < Gr. διάκρισις, separation. < διακρίνειν, separate: see diacritic.] 1. A disease characterized by a morbid state of the secretions.—2. A critical discharacterized secretic constant in property in propagation. charge or excretion, as sweating in pneumonia. diacritical, a.—Diacritical current, in elect., a magnetic current which will produce in an iron coil diacritical magnetization, or a magnetization equal to one half saturation.

diacromyodous (dī'a-krō-mī-ō'dus), a. [Gr. $\delta \iota$, two,- + $\delta \kappa \rho \sigma v$, extremity, + $\mu \nu \iota \delta \sigma \eta \gamma$, mussellike, $\langle \mu \nu \varepsilon (\mu \nu -)$, muscle.] In ornith., having the syringeal muscles attached to both the updiacanthous (di-a-kan'thus), a. [Gr. δι-, two-, like, (μυ-), muscle.] In ornith., having the syringeal muscles attached to both the upurder each leaf. Syd. Soc. Lex.

diacathodic (di-a-ka-thod'ik), a. [dia-+ cathode + -ic.]. Öf or pertaining to rays obdiactin (di-ak'tin), n. [Gr. δί-, double, + cathode - ic.] per and the lower ends of the bronchial half-

 ἀκτίς (ἀκτιν-), a ray.] In the nomenclature of the spicular elements of sponges, a straight or curved spicule with two arms.
 diactinism (di-ak'tin-izm), n. [diactin-ic +-ism.] The property, possessed by certain substances, of transmitting chemically active rays.
 Diadectidæ (di-a-dek'ti-dē), n. pl. [NL., < Diadectes + -idæ.] A family of anomodont Rentiliar founded on genera from the Permian Reptilia, founded on genera from the Permian formation and including Diadectes, Empedias, and some others. The teeth are transversely elongated and divided by a median ridge. Cope has regarded this peculiar type of tooth as indicative of herbivorous dist

certain eggs in the blastula stage.

Diadematoidea (di-a-dēm 'a-tō-id 'ē-ā), n.

[NL., ζ Gr. διάδημα(τ-), diadem, + είδος, form.]

An order of Eucchinoidea or sea-urchins, having an actinal central peristome and an abactinal periproct situated within the dorsocentral system, internal and external branchise, jaws and teeth and a continuous perignathic girdle, and ambulacral plates continued be-yond the peristome or as separate buccal olates.

Plademina (di'a-de-mi'nä), n. pl. [NL. for *Diadematina, (Gr. διάδημα, diadem, + -ina².]
A group or suborder of regular ectobranchiate hinoidea, of the order Diademoida, having the ambulacral plates of varying degrees of complexity. It includes the Orthopsidæ, Diadematidæ, Pedinidæ, and other families.

Diademoida (di-a-de-moi'dā), n. pl. [NL. for Diadematoida, ⟨Gr. διάθημα, diadem, +-oida.]

An order of regular ectobranchiate Echinoidea. They have the mouth and anus both central and opposite, the latter opening in the center of the apical system; the external branchine passing out through the buccal clefts; a dental apparatus present; no interambulacral plates on the peristomial membrane; and the ambulacral plates generally compound. It includes the Arbacide, Diadematides, Strongylocentrolides, and other families.

diaderm (di'a-derm), n. [Appar. < Gr. διά, through, + δέρμα, skin.] In embryol., a collective term for both ectoderm and entoderm. **diadochokinesia** ($di-ad^{\prime}\bar{o}-k\bar{o}-ki-n\bar{e}'si-\bar{a}$), n. [NL., ζ Gr. διαδοχή, succession, + κίνησις, motion.] The power of executing, in alternation, antagonistic movements, as those of flexion and extension of a limb.

[Gr. διάδρομος, diadromous (di-ad'rō-mus), a. [Gr. διάδρομος, running through, < διά, through, + -δρομος, < δραμεῖν, run.] In bot., having all the nearly equal nerves proceeding in a fan-like manner

equal nerves proceeding in a fan-like manner from the summit of the petiole to the margin of the leaf, as in the maidenhair-tree.

diadumenos (di-g-dū'men-os), n. [Gr. διαδούμενος, middle, ppr. of διαδείν, bind around: see diadem.] In Gr. antiq., a fillet-binder: a name applied to a class of antique marble and bronze statuse representing an athlete hindbronze statues representing an athlete binding a fillet about his head. They are supposed to be based upon a famous bronze original by the sculptor Polycletus.

diane (di'én), n. [Gr. δι-, two, + -awa, the termination of τρίανα, a trident]. In the nomenclature of the spicular elements of sponges, a triæne in which one of the cladisks has been atrophied.

diafanous, a. A simplified spelling of diapha-

phraam.

diagenesis (dī-a-jen'e-sis), οιά, through, + γένεσις, birth.] In geol., the action of heated waters upon clastic sediments at the time of their deposition, assumed to explain the origin of crystalline schists: pro-posed by Gümbel (1888); employed by Walther to embrace those physical and chemical modi-fications which take place in a sediment from the time of its deposition to the time when it is modified by orogenic or volcanic forces,

when it undergoes metamorphism.
diagenetic (di a-jē-net'ik), a. Caused by or characteristic of diagenesis.

diagenic (di-a-jen'ik), a. [diagen(esis) + -ic.]
Pertaining to or resulting from the processes of diagenism.

To sum up, metamorphism may be considered as presenting itself under these phases. 1. Static metamorphism or diagenism, the product being diagenism cocks.

A. W. Grabau, in Amer. Geol., April, 1904, p. 236.

diagenism (dī-aj'e-nizm), n. [diagen(esis) + -ism.] A term used by Johannes Walther to include all the physical and chemical changes

which a rock mass undergoes after deposition, aside from those caused by pressure during orogenic disturbances or by igneous activity.

Amer. Geol., April, 1904, p. 236.

diagnosable (di-ag-nō'sa-bl), a. [diagnose + -able.] Capable of being diagnosed.

diagnosable (di-ag-no'sa-bl), a. [diagnose + -able.] Capable of being diagnosed.

diagnosis, n.— Clinical diagnosis, diagnosis made from the symptoms alone.—Diagnosis by exclusion, diagnosis based upon a comparison of all the affections which have various symptoms in common, and the rejection of one after another as certain essential signs are found to be lacking, until only one disease, which answers all the tests, remains.—Pathological diagnosis, diagnosis made by an examination of the morbid changes present.—Physical diagnosis, diagnosis based upon information obtained by auscultation, percussion, and palpation.—Serum diagnosis, diagnosis by means of serums. Among the various antibodies (see *immunity) which have been discovered, the agglutinins and precipitins are of special interest: the first, because their formation facilitates not only the diagnosis of certain bacterial infections, but also the recognition of the corresponding organisms; the second, on account of their special biological and medicolegal significance, the modern bloodtest being based upon their formation. (a) As regards the agglutinins, Gruber and his pupil Durham first showed that cholers bacilli and typhoid bacilli when suspended in an inert fluid lose their motility and collect in little clumps (see *agglutination, 4) upon the addition of homologous blood-serum, that is, of blood-serum derived from an individual infected with the corresponding organism.



Figure showing uniform Distribution of Bacilli, before the Action the corresponding Agglutinins. (From Cabot's "Guide to the linical Examination of the Blood.")

Further research then led to the recognition of the fact that within certain limitations the action of the agglutinins is specific, that is, that the blood-serum from a typhoid patient, for example, does not agglutinate the common colon bacillus, the cholera bacillus, streptococci, staphylococci, etc., and vice versa. But it was also

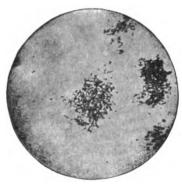


Figure showing typical Agglutination. (From Cabot's "Guide to the Clinical Examination of the Blood.")

Figure showing typical Agglutination. (From Cabot's "Guide to the Clinical Examination of the Blood.")

shown that the blood-serum from a given case may cause a positive reaction with closely related organisms, as in the case of cholera serum, which will agglutinate vibrio-leanoff, notro Berolinensis, and vibro's Seine-Veracilles. Then it was demonstrated that normal blood-serum may have a more or less well-marked agglutinative effect on certain organisms, so that it would appear that the value of this method for the purpose of recognizing bacteria must of necessity be limited. While this is true, in a certain sense, it has been ascertained that marked quantitative differences exist in the behavior of immune blood-serums to micro-organisms in general, and that it is possible to obtain a positive and exclusive reaction between a given organism and its corresponding serum if the latter is strongly diluted. Normal human blood-serum, for example, will not agglutinate the typhoid bacillus in dilutions exceeding 1:10, while with typhoid serum a positive reaction can still be obtained with dilutions of 1:50, 1:200, and more. The clinical significance of the principle of bacterial agglutination was first pointed out by Widal, who showed that the reaction can be obtained with typhoid blood-serum quite early in the course of the disease, namely, at a time when the other clinical symptoms often leave the diagnosis in doubt. For this reason Widal's mane has been coupled with the reaction. It should, however, be termed the Gruber-Widal reaction, or, still better, the Gruber-Grunbaum-Widal reaction, or, Grünbaum had fully realized the clinical import of Gruber's discovery before Widal, but did not publish his results, owing to the scarcity of his material, until after Widal's first paper had appeared. At the present time the method is fully recognized as one of the most

important in the diagnosis of typhoid fever especially, and is extensively utilized in clinical work. In other diseases, such as dysentery, Malta fever, bubonic plague, cholera, pneumococcus infections, etc., the method is at times also applicable for diagnostic purposes, but the clinical value of the reaction is here diminished to a certain extent, owing to the comparatively late date of its appearance. For the recognition of the corresponding organisms, however, it is invaluable. The clinical examination may be conducted as follows: A large drop of blood is received on a glass alide and allowed to dry. In this form the material is conveniently brought to the laboratory. Here the blood is soaked off with sterile boullion, or distilled with water, using 15-25 drops for the one drop of blood. This gives a dilution of 1:13:25, as the case may be. One drop of this fluid is placed on a cover-glass and mixed with a drop of a boulino culture of the typhoid organism not more than 24 hours old. In this manner a final dilution of 1:30:50 is secured. The cover-glass is mounted on a cupped slide and set aside for 30 minutes. If at the expiration of this time the bacilli have lost their motility and have gathered in clumps, as shown in the accompanying illustration, the reaction is positive. Numerous modifications of this method have been described, which are all alike in principle. A new departure, however, has been made of late in the use of dead cultures, which are agglutinated in the same manner. This is an important discovery, since it makes the test more readily applicable for the general practitioner, doing away with the necessity of keeping an actively motile culture on hand. The reaction is obtained in fully 96 per cent. of all cases of typhoid fever at some stage in the course of the disease. (b) As regards the precipitins, these bodies are formed as the result of immunization of an imals with albuminous substances derived from individuals of a different species. When the resultant antiserums are then brought tog

diagnosticum (di-ag-nos'ti-kum), n.; pl. diagnostica (-kš). [NL.] A means of diagnosis.—Ticker's diagnosticum, a dead culture of the typhold bacillus which, in suspected cases of typhold fever, can be used in the agglutination test, in the place of the living organisms. See *agglutination test.

living organisms. See *agglutination test.

Diagonal line, the line through the middle points of the three diagonals of a complete quadrilateral; specifically, in naval arch., a curved line formed by the intersection of a diagonal plane with the surface of a vessel. The diagonal plane intersects the central longitudinal plane in a horizontal line and is thence inclined downward and outward. A rabatted diagonal is a diagonal shown in its true form, by turning the diagonal plane up to the horizontal about its intersection with the central longitudinal plane as a hinge. See rabattement. Diagonal lines are much used in obtaining smooth, fair forms for a vessel's lines, and the harpings usually follow the diagonals. See cut under harping, 2 (b). Also diagonal.—Diagonal symmetry.

See *symmetry.—Diagonal trigram.

under Narping, 2 (b). Also diagonal.—Diagonal symmetry. See *symmetry.—Diagonal trigram. See *trigram.

diagram, n.—Argand diagram, a plane figure representing imaginary quantities of the form x + yl, by points having for orthogonal coordinates x and y. In such a diagram it is necessary to consider the parts of the plane at infinity to be one point.—Entropy diagram, the diagram of a thermodynamic cycle involving changes of entropy.—Euler's diagram, a graphic representation of logical relations first given by the mathematician Leonard Euler, in his "Letters to a German Princess." Circles, or ovals, are used to represent each by its contained surface the aggregate of possible individuals to which a certain predicate applies.—Herts's diagram, a graphic presentation of the temperature, pressure, and moisture of a unit mass of moist air when undergoing adiabatic changes of volume.—Metacentric diagram. See *metacentric.—Neuhoff's diagram, a diagram, andagous to that of Hertz, used for the purpose of determining more accurately the condition of the moisture in air ascending to a given altitude or pressure.—Pulseux diagram, a diagram of unit points, like the intersections of the horizontal and vertical lines of squared paper, introduced by the French geometer Pulseux, for the treatment of functions.—Strain-diagram, a figure or diagram drawn (as a rule automatically) by the mechanism of a testing-machine, in which the abscisse are the pounds of stress applied to the test-piece and the ordinates are the strains or the amount of deformation, in pounds or tons, of the specimen under that load. The paper on which the diagram is drawn is moved in abscissa by the weighing apparatus, while the specimen in changing its form under stress describes the ordinate by means of a multiplying mechanism attached to it for the purpose.—Variation-diagram an indicator-diagram which records the diagrams for enough successive strokes of the engine to determine whether the governor is acting properly, or whether it is unable properly to contr

substance, such as a gas or vapor, and its entropy. Volume-pressure diagram, a thermodynamic diagrae expressing the relations between the volume and pressure of a gas or vapor.

diagram-factor (dī'a-gram-fak'tor), n. The ratio of the actual mean effective pressure, measured from an indicator-diagram, to the mean effective pressure of a diagram in which the various operations of admission, expansion, release, and compression are carried on under assumed ideal conditions. Trans. Amer. Soc. Mech. Engin., XXIV. 751.

diagramic (di'a-gram-ik), a. Same as diagrammatic.

Diagramma (di'a-gram-i), n. [NL.: see diagram.] The name of a genus of grunt-fishes, of the family Hæmulidæ, found in the East Indies

Indies.

diahydric (dī-a-hī'drik), a. [Gr. διά, through, + ἰδωρ (ἰδρ-), water.] Passing through or conveyed by water: as, a diahydric sound.

diakathodic, a. See *diacathodic.

diakinesis (dī'a-ki-nē'sis), n. [NL., ⟨Gr. διά, through, + κίνησις, movement.] In cytol., the segmented spireme stage in the primary ocyte. or spermatocyte. This stage follows synapsis and is characterized by the persistence of the chromosomes for some time in the form of double rods.

dial¹, n.— Lunar dial. Same as night or necturnal dial. dial² (di'al), m. [Origin not ascertained.] The commercial name for the best grade of kauri-

dial. An abbreviation (a) of dialect; (b) of dialectal, dialectic, or dialectical.

dialdane (di-al'dān), n. [di-2 + ald(ehyde) + -ane.] A colorless crystalline compound, OCHCH₂CH(OH)CH:CHCH₂CH(OH)CHO, prepared by the action of hydrochloric acid on a mixture of aldehyde and water. It melts at 130° C. and may be distilled under reduced

Derived from dialdane.—Dialdanic acid, a color-less compound, C₈H₁₄O₄, prepared by the action of potas-sium permanganate on dialdane. It forms monoclinic crystals, melting at 80° C. and boiling at 183° C. under 20 millimeters pressure.

crystals, melting at 80° C. and boiling at 183° C. under 20 millimeters pressure.

dial-feed (di'al-fed), n. In sheet-metal work, a feed-motion adapted to multiple-die presses which perform one or more operations upon a single blank or shell. It consists essentially of a circular plate, called the dial, which revolves horizontally under the upper dies of the press. Two types are in use. In one the dial is a fiat plate on which the shells are placed by hand. As it revolves the shells are carried under the single upper die, each being brought to the right position by stationary guides above the dial. The dial can also be used to carry the shells to a second feedmotion which carries each in turn under a gang of dies that perform a series of operations upon each shell. See **multiple-press* (with cut). In the other type the dial carries a number of female dies placed in a ring upon the plate. The blanks or shells are fed to these as they pass the front and are carried by the rotation of the dial under one or more upper dies in turn. The press may have three upper dies and perform an equal number of similar operations, or it may have two or three different dies and perform a series of consecutive operations upon each blank in turn. Presses having a dial feed-motion are called dial-presses.

diallagic (di-al'g-jik), a. [diallage + -ic.] Of

diallagic (di-al'a-jik), a. [diallage + -ic.] Of, or of the nature of, the mineral diallage. dialog, n. and v. A simplified spelling of dia-

Dialommus (di-a-lom'us), n. [NL., \langle ML. dialis, dial, + Gr. $\delta\mu\mu a$, eye.] A genus of blennies from the Galápagos Islands, characterized by having the eyes divided each by a horizontal partition. D. fuscus is the only known species.

dial-press (di'al-press), n. A press having a dial-feed motion. See *dial-feed.— Horisontal dial-press, a dial-press employing a vertical dial fitted with a number of female dies, placed in a horizontal position, the single opposing die moving in horizontal guides. The shells are fed to the revolving dies by hand.

dial-recorder (dī'al-rē-kôr'der), n. A clock combined with a dial recording mechanism for registering the time of arrival and depar-ture of employees.

dialurate (di-a-lū'rāt), n. [dialur-ic + -ate1.] A salt of dialuric acid.

dialuric (di-a-lū'rik), a. [dial(ysis) + uric.]
Noting an acid, a colorless compound,
CO < NHCO > CHOH, prepared by the reduc-

tion of alloxan. It crystallizes in short, tetragonal prisms. Also called tartronyl-urea.

dial-writer (di'al-ri"ter), n. A form of writingor printing-machine of the type-writer class,

in which the letters are arranged on a dial like the figures on a clock-face and a pointer or arm is moved to the desired letter, or the

whole dial is turned on its center to bring the desired letter to the point where the impres-

desired letter to the point where the impression is to be made.
dialycarpel (di'g-li-kär'pel), n. [Irreg. < Gr.
διαλύειν, part asunder, + NL. carpellum, carpel.]
A fruit with separate carpels. Syd. Soc. Lex.
dialycarpic (di'g-li-kär'pik), a. Same as dia-

t asunder, + δεσμός, band, + -y³.] breaking up of the dialydesmy (dī'a-li-des'mi), n. διαλύειν, part asunder, + δεσμός, band, + $-y^3$.] In bot., the breaking up of the axial cylinder into separate bundles each with its own sheath.

dialyneurous (dī'a-li-nū'rus), a. [Irreg. ζGr. δαλύειν, part asunder, + νεῦρον, nerve, + -ουs.] Characterized by dialyneury: as, the dialyneurous nervous system of certain gasteropods.

Proc. Zool. Soc. London, 1901, II. 466.
dialyneury (di'a-li-nū'ri), n. [dialyneur-ous + -y³.] The condition of the nervous system + -y³.] The condition of the nervous system among rhipidoglossal *Mollusca*, characterized by the anastomosis of each pleural ganglion with the opposite half of the visceral commis-

with the opposite half of the visceral commissure by means of the pallial nerve.

dialysator (di'al-i-zā-tor), n. [dialyse + -ator.]
In phys. chem., a dialyzer. [Rare.]
dialysis, n. 7. In bot., the separation of parts normally united, especially the parts of a whorl.—8. In petrog., transformation of rocks by weathering and processes of disintegration: contrast to processes of metamorphism.

dialystaminous (di-al-i-stam'i-nus), a. [Irreg. (Gr. διαλύειν, part asunder, + NL. stamen, stamen.] In bot., having the stamens separate. N. E. D.

dialystely(di'a-li-stē'li), n. [Irreg. (Gr. διαλύειν, part asunder, + στήλη, a pillar.] In bot., the condition in which the axial cylinder consists of several plerome strands or steles which remain for the most part separate throughout

their course.

dialytic, a. 4. In biol., noting an evolutionary stage or condition in which the divergent characters of inbred varieties do not combine or average in the hybrids but follow one or the other of the parental lines, as discovered by Mendel. Compare *catalytic, 2, *hemilytic, and *prostholytic. O. F. Cook.

dialytically (dī-a-lit'i-kal-i), adv. By dialysis; specifically, in math., by dialytic elimination (which see, under dialytic).
dialyzation (dī-al-ī-zā'shon), n. Same as dialysis.

diam. An abbreviation of diameter.
diamagnetic, a. 2. Of lower permeability
than sir. See magnetic *circuit.
diamantine, a. II. n. A trade-name for boron
in the crystallized state and in fine powder,
used as an extremely hard abrasive and polishing material ing material.

diamba (dē-am'bā), n. [Native name.] Same

hameter, n. 3. The diameter (see def. 2) of the object observed, taken as a convenient diameter, n. measure of linear magnification used in microscopy and in telescopic work.

A magnification of 15 diameters or more is easy.

D. P. Todd, Stars and Telescopes, p. 320.

D. r. Tota, Stars and Telescopes, p. 32d.

Coccygeopubic diameter. See *coccygeopubic. — Conjugate diameter of the pelvis, a diameter of the brim of the pelvis measured from the promontory of the sacrum to the symphysis pubis. — Diameter limit, the diameter, usually breast-high, which defines the size to which trees are to be measured or used for any given purpose. Also cutting limit.— Intertuberal diameter, in anthrop, the inner diameter of the pelvis measured between the sciatic notches.

diameter-tape (di-am'e-ter-tāp), n. A tape for ascertaining the diameter of trees, so graduated that the diameter corresponding to the girth of a tree is read directly from the

tape. Diametral curve. See *curve.—Diametral plane. (b) See *plane. diamide (di-am'id), n. [$di^{-2} + amide$.] 1. Same as hydrazine.—2. The name of a class of organic compounds containing two univa lent amido groups, -CONH; they are derived from dibasic acids

from dibasic acids.

Diamine azo-blue, black, etc. See *azo-blue, *black, etc.—Diamine colors, the direct cotton coal-tar colors: named because many of them are diamines. For specific diamine colors see *blue, *red, *green, etc.

diaminogen (di-a-min'ō-jen). n. [diamine + -gen.] A direct cotton coal-tar color of the disazo type, prepared by combining diazotized acetyl-naphthylamine-diamine with a-naphthylamine, diazotizing the product and combining acetic with A-naphthylamine, acetic with acetic with a a bining again with β -naphthol-sulphonic acid, and finally saponifying with sodium hydroxid. It dyes unmordanted cotton a dark blue in a salt bath. By

liaminuria (di-am-i-nū'ri-ā), n. [diamine + Gr. οὐρον, urine.] The elimination of diamines in the urine. This is notably observed in association with cystinuria, where putrescine and cadaverine have been repeatedly met with.

cine and cadaverine have been repeatedly met with.

diamond. I. n. 2. The diamond has been artificially reproduced by Moissan, though as yet only in extremely small crystals, by dissolving amorphous carbon in molten tron at the very high temperature of an electric furnace and suddenly cooling the metal by dropping it into water or mercury, which causes crystallization to take place under the pressure due to the contraction of the exterior of the mass upon the interior portion. By dissolving away the dirron with an acid the minute diamond crystals are isolated. The recent discovery of minute diamonds in the meteoric iron of Cañon Diablo, Artzona, gives a peculiar interest to these experiments of Moissan. The diamondmines in South Africa, which were comparatively unproductive during the Boer War, with its close rapidly returned to normal activity. This region has been enormously productive, the mines near Kimberley having yielded, according to one estimate, rough diamonds to a value of approximately \$25,000,000, during the period from 1889 to June 30, 1903. It has also produced some very large diamonds: the Jubilee diamond, found at Jagersfontein, in 1893, weighed 972 carata, and the Cullinan diamond, found at the Premier mine January 25, 1906, weighed 3,025 carata, or one and one third pounds. The latter stone measured 4x24z2 inches, and was bounded in part by natural octahedral faces and in part by cleavage planes. The original stone before fracture had probably nearly double the weight given.—Braxilian diamond, a name given to small spherical or rounded crystals of diamond, in contradistinction to the Indiam type lance of diamond, a name originally applied to rock-crystal cut in diamond form, but more recently applied to a paste imitation of a diamond when sold by Irish dealers.—Ross diamond. See rose-cut.—Writing diamonds, minute pointed cleavages of diamonds, secured in steel or copper holders, used for making minute marks, letters, or inscriptions on glass or similar substances.

II. a. Diamond brown, cemen

II. a. Diamond brown, cement, flavin, etc. See *brown, etc.—Diamond cotton. (b) A cotton disper into which a small diamond figure is woren.—Diamond draw-plates, photograph. See *draw-plate, *photo-

diamond-black (di'a-mond-blak"), n. 1. The trade-name of a very fine lampblack, almost absolutely pure carbon, made in Ohio by the smothered combustion of natural gas: used in the preparation of printers ink.—2. A mordant in the preparation of printers ink.—2. A mordant acid coal-tar color of the disazo type, derived from salicylic acid. It dyes wool in an acid bath a black which becomes exceedingly fast when after-treated with potassium bichromate. It may also be applied upon chromium-mordanted wool.

diamond-field (di's-mond-fēld), n. An area which yields diamonds from its superficial deposits: as, the diamond-fields of South

diamond-fig (dī'a-mond-fig'), n.
*diamond-plant.

diamond-fish (di'a-mond-fish'), n. Any of the garpikes (*Lepidosteidæ*): so named on account of its diamond-shaped scales.

diamond-flounder (di'a-mond-floun'der), n. A large flounder, Hysopsetta guttulata, found on the Pacific coast of the United States.

on the racine coast of the United States.

diamond-frame (di'a-mond-fram), n. In a bicycle, the truss made of hollow steel tubing, brazed at the joints, by which the weight of the rider is transferred to the axles of the wheels. Its shape is approximately that of the lozenge on a playing-card called the diamond.

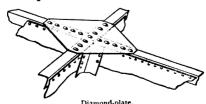
See bicycle.
diamond-grain (dī'a-mond-grān"), n.

diamondiferous (di"a-mon-dif'e-rus), a. [dia-mond + L. -fer, (ferre, bear, + -ous.] Diamond + L. -fer, \(\) ferre, bear, + -ous.] Diamond-producing: as, diamondiferous earth; a

diamondiferous country; diamantiferous.

diamond-plant (di'a-mond-plant), n. The iceplant, Mesembryanthemum crystallinum. See
ice-plant.

diamond-plate, n. 2. In iron ship-building, a piece of plate of conventional diamond shape



uniting and strengthening parts which cross each other at the same level.

subsequently diazotizing and combining with 8-naphthol, indigo-blue shades are obtained; when combined with metadiamines, fast blacks are produced.

diamond-point, n. 2. In railroading, a crossing where two tracks cross obliquely instead of at a right angle. [Eng.]—Themond-point of at a right angle. [Eng.]—Diamond-point tool. (a) A pointed tool which takes a light chip, used by pattern-makers for turning internal surfaces. (b) A tool which has a V-shaped point, used for turning and grooving metal.

diamond-sparrow (di'a-mond-spar'ō), n. One of the honey-suckers, Dicæidæ, Pardalotus affinis, which is spangled with red, yellow, white, and black. Also called diamond-bird. Australia. 1

diamond-spot (di'a-mond-spot), n. A British collectors' name for a European pyralid moth, Botys trigonalis.

diamond-truer (di'a-mond-trö'er), n. A hand-tool consisting of a short rod of steel with a wooden handle, and having a black diamond inserted in the point of the bar: used in dressing and truing emery-wheels.

diamond-willow (dī'a-mond-wil'ō), n. See

diamorphosis, n. 2. In physiol., growth into normal shape.

diamylene (di-am'i-len), n. [di-2 + amyl]+ ene.] A colorless compound, (CH₃)₂C: C(CH₃)C(CH₃)₂CH₂CH₃, prepared by the action of sulphuric acid on trimethylethylene. It boils at 154-156° C.

Diana fritillary. See *fritillary.—Tree of Diana. See *tree.

diancister (di-an-sis'ter), n. [NL. diancistron, Gr. δι-, double, + άγκιστρου, a fish-hook.] In the nomenclature of the spicular elements of sponges, a monaxial C- or S-shaped rhabd with the ends sharply bent and with a central excision.

diandrous, a. 2. In ornith., having two male mates.

dianil (di-an'il), n. [
blue. See *black, *blue [di-2+anil.] — Dianil black,

dianine (di-an'in), n. [dian(il) + -ine².] The trade-name of a photographic developer consisting of diaminoresorcinol.

dianisidine (di-a-nis'i-din), n. [di-2 + anisi-dine.] An organic compound formed by the condensation of two molecules of anisidine with the elimination of two atoms of hydrogen.

— Dianisidine blue. See *blue.

dianium (dī-ā'ni-um), n. [NL., < L. Diana, Diana.] A name proposed by Von Kobell for a supposed new element obtained from the mineral columbite as found in Bavaria. It has been shown to be the same as niobium. Dianol red. See $*red^1$.

dianthine (dī-an'thin), n. [Appar. < NL. Dianthus, pink, + -ine².] A direct cotton coal-tar color of the disszo type, derived from diamidoazoxy-toluene, which dyes unmordanted cotton red in an alkaline salt bath. Also called rosophenine, rock scarlet, St. Denis red, and Trona red. — Dianthine B and G, two coal-tar colors of the xan-thene type, similar in properties and composition to ery-

An abbreviation of diapason. dian. diapalma (dī-a-pal'mā), n. [Gr. ôiá, through (cf. diachylon, diacodium, etc.), + l.. palma, palm.] A drying and cleansing plaster formerly composed of palm-oil, litharge, and sulphate of zinc, but now generally made of white vax, diachylon plaster, and sulphate of zinc. diapason, n.—Bell diapason, in organ-building, an open diapason stop of which the pipes are flared or belled at the top, which produces a slight increase in the reedy quality of the tone.—Diapason clock. See *clock2.

diapause (di'a-paz), n. [Gr. did, through, + παυσις, stopping: see pause.] In embryol., the stage of quiescence which separates two blas-

stage of quiescence which separates two diastokinetic movements in the insect embryo. Wheeler, 1893.
diapensiaceous (diapensiaceous in the insect embryo. diapensiaceous (diapensiaceous in the insect embryo. If it is diapensiaceous in the insect embryo. If it is diapensially in the insect embryo. It is diapensially in the insect embryo.

diaphanoscope, n. 2. An illuminating apparatus employed in diaphanoscopy.

diaphanoscopy (di "a - fa - nos' kō - pi), n. [diaphanoscope + -y³.] Examination of a cavity, such as the antrum of Highmore, or of a hollow organ, such as the stomach, by means of transillumination, an electric light being placed behind or within the part.

diapherin (di-af'e-rin), n. [Gr. διαφέρειν, differ, + in².] An amber-colored compound of asepterol, HOC₆H₄SO₂NHC₉H₆O, (1:2), used in surgery as a powerful antiseptic. It forms hexagonal crystals which melt at 85° C.

diaphoric (di-a-for 'ik), a. [Gr. διαφορά, difference, + -ic.] Of or pertaining to differences. — Diaphoric function. See */unction.
 diaphotoscope (di-a-fō' tō-skōp), n. [Gr. διά, through, + φως (φωτ-), light, + σκοπεῖν, view.] Same as *diaphanoscope.
 diaphragm, n., 2. (c) A thin ring or plate, pierced with a hole which is usually, but not always circular through the father that the father than the father that the father that the father that the father than the fath

phereed with a noise which is usually, but not always, circular. A series of these is attached to the inside of the tube of a telescope or other optical instru-ment for the purpose of preventing reflections of light from the inner walls of the tube. (d) A sheet or disk of flexible material, confined at the edges, but free to yield to pressure on one side or the other: used in regulating-devices where presother: used in regulating-devices where pressure is one element, and to operate valves by a pressure from a distance. (e) In tunnel-work, a partition separating the working-face from the first chamber.—6. In statistical mech., a portion of space, separating two ensembles of systems of molecules, such that there is no interchange of particles between the two.

This independence of the systems determined physically by forces which prevent particles from passing from one system to the other, or coming within range of each other's action, is represented mathematically by infinite values of the energy for particles in a space dividing the systems. Such a space may be called a diaphragm.

J. W. Gibbs, Statistical Mech., p. 196.

7. In pathol., a membranous structure which

7. In pathol., a membranous structure which partly or completely closes the lumen of a tube or cavity: as, inherited diaphragm of the larynx. Med. Record, Jan. 17, 1903, p. 111.—Aubert diaphragm, in psychophys., an instrument for controlling and varying the amount of light admitted to a dark room. It consists essentially of two strips of blackened metal which alide upon each other in grooves: the inner end of each strip is cut out in the form of a right-angled triangle, so that the opening of the diaphragm is always a square.—Diaphragm process, a process for the electrolytic products, separated at the two opposite electrodes are prevented from mixing by the interposition of a porous diaphragm. Electrochem. Industry, Sept., 1903, p. 453.—Pericardial diaphragm, Same as pericardial septum (which see, under pericardial).—Secondary diaphragm, the transverse mesocolon.

diaphragm (di'a-fram), diaphragm (di'a-fram), diaphragm (di'a-fram), same are interested and the upper metal strips carry correctly and t

diaphragm (dī'a-fram), To interpose in the path of a beam of light, or in the field of an opti-cal instrument, a screen

containing an aperture; over the two smaller open-specifically, in *photog.*, to reduce the aperture of an objective by the use of a diaphragm.

Three Aubert diaphragms, mounted side by side in a wooden frame, for insertion in the wall of a dark room. The grooves carry scales, and the upper metal strips carry corresponding marks, so that the size of the square openings can be read off. The grooves also carry clips for holding strips of ground or colored glass. A glass strip is shown in position over the two smaller openings.

Generally speaking it would be an advantage to dia-phraym the objective during the day. Smithsonian Rep., 1890, p. 137.

Diaphragmatic hernia, tic. See *hernia,

diaphragmatically (di'a-frag-mat'i-kal-i), adv. By means of the diaphragm: as, to breathe diaphragmatically.

diaphragm-furnace (dī'a-fram-fer'nās), n. furnace for roasting or oxidizing ores. It has successive levels or shelves on which the ore is placed, the ore becoming gradually hotter as it drops from level to level toward the fire at the bottom.

diaphragm-valve (di'a-fram-valv'), n. 1. A

valve whose opening and closing are controlled by the motion of a diaphragm.—2. A valve to which a plate or diaphragm is attached which will move when the pressure of a liquid in contact with one side of it reaches a certain point.

diaphtherin (di-af'the-rin), n. [Appar. < Gr. diaphtifeur, destroy (†) + -in².] Same as *oxy-quinaseptol.

diaphthol (di-af'thol), n. [diapth (erin) + -ol.]

The same as *quinaseptol.

Diaphus (di'a-fus), n. [NL., erroneously for *Diaphōs, \langle Gr. $\delta i\dot{a}$, across, $+\phi \bar{\omega}_{c}$ ($\phi \omega \tau$ -), light.]

A genus of lantern-fishes of the family Myctophidæ, characterized by having luminous spots each divided by a cross-line (as in the Greek letter theta, θ). D. theta is found on the coast of California.

diaphyllous (di-af'i-lus), a. Same as dia-

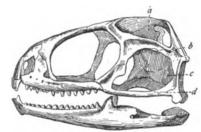
pyrenomycetous fungi having the membrana-ceous perithecia buried in a more or less distinet stroma which may be either valsoid or effuse, and consists of the slightly blackened substance of the host. The spores are uniseptate-and hyaline and sometimes appendiculate. Over 400 spe-cies have been described, occurring on a great variety of plants throughout the temperate regions. D. parasitics causes chestnut-blight or canker, a destructive disease in the eastern United States. See oak *canker.

diapositive (dī-a-poz'i-tiv), n. [dia-+ positive.] In photog., a transparent positive picture (such as a lantern-slide), made from a nega-

If one of these views be printed as a diapositive, and superposed on the other negative, a composite picture will be produced. Sci. Amer., June 25, 1904, p. 494.

diapsid (di-ap'sid), a. [Gr. $\delta\iota$ -, two-, + $\dot{a}\psi\dot{\epsilon}$ ($\dot{a}\psi\dot{a}$ -), arch: see apse.] Having two temporal arches like the members of the reptilian subclass Diapsida.

Diapsida (di-ap'si-dä), n. pl. [NL., < Gr. di-,



Skull of Hatteria (Sphenodon punctatum), a typical diapsidan reptile.

a, supratemporal fossa; à, superior temporal arch or arcade; c, infra- or laterotemporal fossa; à, inferior temporal arch or arcade. The specimen figured is young, the teeth of an old hatteria being fused in one mass.

two-, $+ \dot{a}\psi i\varsigma$, arch.] A subclass of Reptilia which contains those forms with (primarily) two temporal arches, a relatively small squamosal large quadrate, and coracoid and pro-cc ad early coalescing, or the procoracoid degenerate: contrasted with *Synapsida. Osborn, 1903.

diapsidan (di-ap'si-dan), a. Relating to or having the characters of the reptilian subclass Diapsida: as, diapsidan types of shouldergirdle.

Diaptosauria (di-ap-tō-sâ'ri-ā), n. pl. [NL., in allusion to the double temporal arch, \langle Gr. $\delta\iota$ -, two-, + $d\psi\iota$ c, arch (\langle $a\pi\tau\epsilon\iota\nu$, fasten), + $\sigma a\bar{\nu}\rho o c$, lizard.] A superorder of primitive reptiles established by Osborn to include those having a skull with two temporal arches and having a skull with two temporal arches and vertebræ typically amphicœlous. Hypocentra may be present throughout the vertebral column or lacking in the dorsal region; abdominal ribs or plastron always present. There are several orders included in the group. The hatteria, Sphenodon, is a typical and the only living member of the group. diarch (di'ärk), a. [Gr. $\delta\iota$ -, two-, $+ \dot{a}\rho\chi\dot{\eta}$, beginning.] In bot., having two protoxylem groups, as the steles of roots.

The diarch roots of a Sphenophyllum have been described by Renault, who has also investigated the leaves.

Encyc. Brit., XXXL 412.

diaremia, diaremia (dī-a-rē'mi-ā), n. [NL. diaremia and diarrhæmia (†), appar. irreg. formed from διαρρείν, flow through: see diarrhea.] A watery condition of the blood, with an excessive transudation of serum through the walls of the blood-vessels, frequently seen

in sheep which are severely infested with parasites.

diarrhea, n.—Camp diarrhea, a bowel disturbance, often dysenteric in character, which affects bodies of troops in camp.—Cochin China diarrhea, a form of chronic diarrhea which occurre andemically in Cochin China.

Jour. Exper. Med., VI.87.—Diarrhea alba. Same as white diarrhea.—Summer diarrhea, a diarrhea occurring in hot weather, believed to be caused by ptomaines in food which is undergoing the first stages of decomposition.—Vicarious diarrhea, watery intestinal discharges occurring as a result of nature's efforts to remove excrementitious matter which is accumulating in consequence of impaired action of the kidneys or the skin.

diaschistic (di-a-skis'tik), a. [Gr. *diaxiototo, transverse to the direction of the stimulus or operating force: said of organs so placing the mission of the diaschistic (di-a-skis'tik), a. [Gr. *diaxiototo, transverse to the direction of the stimulus or operating force: said of organs so placing themselves.

Diatrypaces (di'a-tri-pā'sē-ē), n. pl. [NL., *Diatrypaces* (di'a-tri-pā'sē-ē), n. pl. [NL., *Diatryp

device for producing and measuring the dispersion of light.

diastase, n.—Taka diastase, a diastase, derived from the fungus Asperpillus oryzz, discovered by the Japanese chemist Takamine. It does not give the reaction for peroxydases, but shows to a high degree the power of de-composing hydrogen dioxid. It is a medicinal prepara-

diastasic (dī-as-tā'sik), a. [diastase + -ic. Cf. diastatic.] Of or pertaining to diastase. U. S. Dept. Agr., Rep. 68, p. 16.

diastasimetry (dī "a-stā-sim 'e-tri), n. [Gr. diastasimetry (di'a-sta-sim'e-tri), n. [Gr. διάστασις, difference (see diastase), + -μετρία, < μέτρον, a measure.] The determination of the diastatic power of a substance, that is, of its capability of converting starch into dextrose. diastema, n. 3. In cytol., the pale region in the cytoplasm or area of sparser protoplasmic fibrills which foreshadows the division-plane in harvokinesis or indirect call division.

fibrillæ which foreshadows the division-plane in karyokinesis, or indirect cell-division.

diastematic (dī-as-tē-mat'ik), a. [Gr. διάστημα(τ-), interval, + -ic.] Pertaining to or of the nature of a diastema.

diastematomyelia (dī-a-stē'ma-tō-mī-ē'li-ā),
n. [NL., < Gr. διάστημα(τ-), interval, + μυελός,
marrow.] A congenital condition in which the spinal cord is in two separate lateral halves.

diastoloscope (di-a-stol'ō-skōp), n. Gr. δια-στολή, separation, distinction, + σκοπεῖν, view.] An eyepiece for the microscope which, in place of lenses, has two cones on a common axis.

of lenses, has two cones on a common axis.

Diastoma ($d\bar{l}$ -as' $t\bar{0}$ -mä), n. [NL., $\langle Gr. \delta u a, through (1), + \sigma r \delta \mu a, mouth.$] A genus of platypodous gastropods of the family *Pyramidellidæ*. They have turreted shells with flat whoris transversely ridged and spirally lined, and the aperture separate from the body whorl. The species occur in Cretaceous and Tertiary rocks.

diastral (di-as'tral), a. [NL. *diastrum, diaster, + al.] Relating or pertaining to a diaster: as, the diastral stage in the division

diaster: as, the diastral stage in the division of a single cell-nucleus into two.

diastrome (di-as'trōm), n. [Gr. διά, through, + στρῶμα, layer.] In geol., the splitting of sedimentary rocks along their bedding-planes. diastrophic (di-as-trof'ik), a. [Gr. διαστροφή, distortion, + -ic.] Pertaining to upheavals or displacements in the earth's crust; of the nature of disetrophism. ture of diastrophism.

It is desirable that a boring be made, as deep as possible, in a plutonic rock. A mass should be selected which is of great age and which has not for many geologic periods been subjected to diastrophic changes.

Rep. Carnegie Inst., 1902, p. 285.

Diastrophic geology, that branch of geology which treats of upheavals and dislocations in the earth's crust. diastrophism (dī-as'trō-fizm), n. [Gr. διαστροφή, distortion, + -ism.] In geol a general term suggested by J. W. Powell for all the varieties or deformation of the earth's crust. As elaborated by G. K. Gilbert, it is of two varieties crogeny, or the upheaval of mountains, and epeirogeny, or the production of continents. U. S. Geol. Surv., Monograph 1, pp. 3, 340.

diathermanosity (dī'a-ther-ma-nos'i-ti), n. Same as diathermance.

The diathermanosity of water and certain solutions.

Nature, LXVII. 425.

diathesis, n.— Uric-acid diathesis, a theoretical condition in which uric acid is formed in abnormal amount within the body and tends to be deposited in the tissues. diatomaceous, a. 2. Containing or made up of diatoms: as, diatomaceous earth. See infusorial earth, under infusorial.
diatome (di'a-tōm), n. Same as diatom.
diatomean (di'a-tō'mē-an), n. Same as diatom.
diatom-earth (di'a-tom-erth'), n. A sedimentary description of the observation of the observations of the observation.

Diatrype (di-a-trī'pē), n. [NL. (Fries, 1849), irreg. ζ Gr. διατρυπᾶυ, bore through, ζ διά, through, + τρυπᾶυ, bore.] A genus of pyrenomycetous fungi having the perithecia sunken a dark-colored flattened effuse stroma which is at first covered by the outer bark of the host. The ostiols perforate the surface of the stroma at maturity, a fact to which the name refers. The spores are simple, allautoid, and hyaline or yellowish. About 70 species have been described; they occur chiefly on the branches of various trees. D. Stigma is a common species on the oak.

lusks. Sedgwick, Text-book of Zoöl., I. 378.

diaxial (dī-ak'si-al), a. [Gr. di-, two-, + L. axis, axis, + -al¹.] Same as biaxial.

diaxon (di-ak'son), n. [NL., < Gr. δι-, two-, + άξων, axis.] A neuron, or nerve-cell, having two axis-cylinder processes.

diazeuxis, n. 2. A disjunctive proposition: tropositive element or radical. badge.

so called, it would appear, by the immediate successors of Aristotle in his school.

dibatag (dib'a-tag), n. [E. African.] A pedicefalous, a. A simplified spelling of dicephaculiar antelope, Ammodorcas clarkei, found in lows.

diazin, diazine (di-az'in), n. [di-2 + azine.]
The name of a class of cyclic organic compounds containing two nitrogen atoms in the ring. See *azin.—Diaxin black, blue, etc. See *black, *blue, etc.

Diazo black, blue, etc. See *black, *blue, etc. diazoacetic (di-az'ō-a-set'ik), a. [diazo-+acetic.] Noting an ether, a lemon-yellow oil,

|| >CHCOOC₂H₅, prepared by the action of

nitrous acid on ethyl aminoacetate. It crystal-lizes at low temperatures, melts at -22° C., boils at 84° C. under 61 millimeters pressure, has a characteristic pene-trating unpleasant smell, and explodes in contact with concentrated sulphuric acid or after prolonged boiling. It is more correctly termed ethyl diazoacetate, and is used in organic syntheses.

diazoamino (dī-az'ō-am'in-ō), n. [Detached use of diazamino-, < diazo- + amine.] The name of a class of organic compounds contain-

prepared by the action of hydrazin on benzene diazonium sulphate. It has an aromatic ammoniacal odor, and bolis at 78.5° C. under 22-24 millimeters pressure. The vapor causes a flow of tears. Also called triazobenzene and phenylcyclotriazin.

diazoic (di-a-zō'ik), a. [diazo- + -ic.] Noting a class of organic aromatic acids containing the radical RNHNO₂ or the tautomeric form RN: NO. OH.

diazonium (dī-a-zō'ni-um), n. [diazo- + -n-+ -ium.] A basic organic radical, RN. Some

of the diazonium compounds are regarded as

tautomeric forms of diazo compounds.

diazotate (dī-az'ō-tāt), n. [di-2 + azote (see diazo-) + -ate¹.] A salt of an acid, RN: NOH. It may be regarded as a tautomeric form of a diazonium hydroxid RNOH, and must not

N
be confused with salts of diazoic acid.
diazotization (dī-az'ō-tī-zā'shon), n. [diazotize + -ation.] The operation of treating an amido compound with sodium nitrite and hydrochloric acid for the production of a diazo of deep-sea frogfishes of the family Ogcocephalidæ. D. atlanticus abounds in the abysses of the Colf Stream.

diazotize (dī-az'ō-tīz), r. t.; pret. and pp. di-azotized, ppr. diazotizing. [di-2 + azote + -ize.] In chem., to treat an aromatic amido compound with nitrous acid so as to introduce the diazo-group of two united atoms of nitrogen which reaction various brilliant dyestuffs are ob- $+-ide^2$.] In chem., a compound containing two tained. Sadtler, Handbook of Indust. Chem., atoms of bromine united to a dyad element or

in which derivatives of the aromatic hydrocarbons serve for the production of a positive image capable of development in color. Paper, calleo, silk, or wool is impregnated with a solution of one of a group of dyestuffs of which primulin, the sodium sulphonate of a complex amido base, is typical, and washed in cold water, and the dyestuff is diazotized by the action of a cold solution of sodium nitrite sharply acidified by hydrochloric, sulphuric, or other acid. After washing in cold water, the tissue is exposed behind a photographic positive, a drawing, or some natural object. The image is then developed by the use of a weak solution of a suitable phenol or amine, as an alkaline solution of \$\text{s}-naphthol for red, of phenol for yellow, or of elkonogen for blue. The picture is then washed. Also known as the primulin process.

diazurin, diazurine (dī-az'ū-rin), n. [di(azo-) disazo type, derived from dianisidine. It dyes unmordanted cotton a dull violet in a salt bath, but for the best results subsequent diazotizing and development with β -naphthol are necessary. Upon development it dives near these gives a navy blue.

dibasicity (di-bā-sis'i-ti), n. [diabasic + -ity.] In chem., the character of being dibasic; the character of an acid as containing two atoms of hydrogen replaceable by a more basic or electropositive element or radical.

The most striking feature of the report of the Field Columbian Museum for 1902-3 is formed by two plates representing groups—the one of the dibatag, or Clarke's gazelle, and the other of the spotted hyena—mounted in the museum.

Nature. Sept. 8, 1904, p. 468.

dibble¹, n. 2. A planting implement which carries the seed in the handle and drops it from the point by means of a slide, when inserted in the earth. [Great Britain.]—
3. A pair of wheels drawn by a horse, and furnished with cogs which make holes for seed: used in cotton-planting. [Southern U. S.] libbling² (dib'ling), n. The act of planting dibbling² (dib'ling), n. The act with a dibble. See dibble¹, v. t.

Dibbling is not a method suited for sowing large areas, but is useful in filling up blanks. $R.\ H.\ Wallace,$ Agriculture, p. 181.

name of a class of organic compounds considered in group RN:NNHR'. These substances are often incorrectly termed diazoamido derivatives; they are readily converted into aminoazo compounds, many of which are dyes.

diazobenzene (di-az'ō-ben'zōn), n. [diazobenzene (di-az'ō-ben'zōn), n. [diazobenzene (di-az'ō-ben'zōn), n. [diazobenzene] A univalent organic radical, $\frac{1}{2}$ | $\frac{1}{2}$ |

tives; they are recompounds, many of which are dyes.

diazobenzene (di-az'ō-ben'zēn), n. [diazo+ benzene.] A univalent organic radical,
CeH5N: N-or CeH5N-. Derivatives of both
N
forms are known, those of the latter being termed benzenediazonium compounds.—DiasoN

CH-N' II.

presence of two compounds.

dibenzyl (di-ben'zil), n. [di-2 + benzyl.] A colorless compound, CeH5CH2CH2CeH5, prepared by the action of sodium on benzyl chlorid. It forms monoclinic crystals melting at 51.5-52.5° C., and boils at 284° C. Also called symmetrical diphenylethane.

Alblastic (di-blas'tik), a. [Gr. &-, two-, +

diblastic (di-blas'tik), a. [Gr. $\delta\iota$ -, two-, + $\beta\lambda a \sigma r \delta$, germ.] Composed of two germ-layers; having the character of or being in the condition of a diblastula. See diblastula.

tion of a diblastula. See diblastula.

Dibothridiata (di-bō-thrid-i-ā'tā), n. pl. [NL.,

Gr. ôt-, two-, + NL. bothridium + -ata².]

A group of Cestoidea. The scolex is provided with
only two suckers, or bothria, these being situated respectively on the dorsal and the ventral aspect, and the uterus
communicates with the exterior. It includes the order
Pseudophyllidea. The majority of the members of this
group are parasitic in fresh-water fishes, though certain
ones are found in birds and in man.

Dibothriocephalus (dī-both'ri-ō-sef'a-lus), n. [Gr. δι., two-, + βοθρίον, dim. of βόθρος, a pit, + κεφαλή, head.] The older name of the genus Bothriocephalus (which see).

dibotryoid (di-bot'ri-oid), a. [di-2+botryoid.]
Compoundly botryoid; having the secondary branches botryoid, as in a compound umbel, a paniele, etc.

dibranchious (dī-brangk'i-us), a. [Gr. $\delta\iota$, two-, + $\beta\rho\acute{a}\gamma\chi\iota a$, gills, + -ous.] Having two

dibrom-, dibromo-. $[di^2 + brom(ine).]$ A combining form used in organic chemistry to indicate the presence of two bromine atoms in the molecule of the compound.

p. 300.

diazotype (di-az'ō-tīp), n. In photog., a dibutyl (di-bū'til), n. [di-+butyl.] Same as method of photographic dyeing and printing, *octane.

in which derivatives of the aromatic hydro-dicacodyl (dī-kak'ō-dil), n. [di-2 + cacodyl]A colorless highly poisonous compound, (CH3)2 As As $(CH_3)_2$, prepared by the action of zinc on eacodyl chlorid. It melts at -6° C., boils at 170° C., has an offensive smell, and inflames spontaneously in the presence of air or chlorin. Also called tetramethyldiarsenide.

dicalcic (di-kal'sik), a. [di-2 + calc(ium) + dicalcic (di-kal'sik), a. $[di^{-2} + calc(ium) + -ic.]$ In chem., containing, as a salt, two atoms of calcium. Dicalcic phosphate (Ca₂H₂(PO₄)₂) forms the chief part of the so-called 'reverted phosphate' in fertilizers which by keeping have lost the soluble character of the original monocalcic phosphate or superphosphate of lime (CaH₄(PO₄)₂).

dicarbonic (di-kär-bon'ik), a. $[di^{-2} + carbonic.]$ Containing two carbonic-acid radicals, — O.CO.OH, in the molecule. Sometimes incorrectly used for disarbonicity.

correctly used for dicarboxylic.

dicarboxylic (dī-kār'bok-sil'îk), a. [di-2 + carboxyl + -ic.] Containing two carboxyl groups,—CO.OH, in the molecule, as an orcanic compound.

dicastic (di-kast'ik), a. [dicast + -ic.] Of, pertaining to, or characteristic of a dicast or the

Culiar antelope, Ammount cus cus not, tound in Somaliland. It resembles the gazelles, but has a long, slender neck, somewhat like that of the gerenuk. The females are hornless; the horns of the males are recurved and ringed at the base.

The most striking feature of the report of the Field

Lous.

Dicellocephalus (dī-sel-ō-sef'a-lus), n. [Also Dikellocephalus. NL., ⟨ Gr. δίκελα, a two-pronged hoe, a mattock, + κεφαλή, head.] A widely distributed genus of Cambrian trilobites with genus to combalon wi baving a large crescentic cephalon with conate, transversely grooved glabellum, 9 thoracic segments, and a fan-like pygidium bearing spiniform extensions at the sides.

dicephalus (di-sef'a-lus), n.; pl. dicephali (-li).
[NL., < Gr. δικέφαλος, two-headed, < δι-, two-,
+ κεφαλή, head.] A double-headed monster.

Diceratidæ (dis-e-rat'i-dē), n. pl. [NL., < Diceras (-cerat) + -idæ.] A family of extinct teleodesmaceous pelecypods of which Diceras is the typical genus.

dice-top (dis'top), n. A top with numbers on its sides, one of which will be uppermost when the top comes to rest after being spun; a teetotum.

dicetyl (dī-set'il), n. Same as *dotricontane. dichamphitriene (di-kam'fi-trī'ōn), n. [Gr. $\delta i \chi a$, in two, $+ a \mu \phi i$, on both sides, $+ r \rho i a \nu a$, trident.] In the nomenclature of the spicular elements of sponges, an amphitriene in which the cladisks are bifúrcated.

Dichapetalaceæ (dik'a-pet-a-lā'sē-ē), n. pl. [NL. (Engler, 1896), < Dichapetalum + -aceæ.]
A family of dicotyledonous choripetalous or sometimes sympetalous plants of the order Geraniales, typified by the genus Dichapetalum, and characterized by regular 5-merous flowers borne from a scaly involucre or cup-shaped disk. There are 3 genera and about 89 species, natives of tropical Africa and America and Madagascar. They are trees, shrubs, or woody vines with alternate entire coriaceous leaves and small flowers in compound cymes in the axis or apparently on the petioles of the leaves. See *Dichapetalum.

*Dichapetalum. (dik-a-pet'a-lum), n. [NL. (Thouars, 1806), in allusion to the two lobes of the petals, (Gr. δίχα, in two, + πέταλον, leaf (petal).] A genus of plants, type of the family Dichapetalaceæ. There are about 70 species, chiefly natives of Africa and Madagascar. One of these is known as rat-poison.

known as rat-poison.

dichlorbenzene (dī-klôr-ben'zēn), n. [di-2+chlor(ine)+benzene.] One of three compounds with the formula $C_6H_4Cl_2$, distinguished by the prefixes ortho-, meta-, para-. All are colorless; the first two are liquids, and the last is a crystalline solid melting at 53° C. and boiling at 172° C. The others boil at 173° C. and 172° C. respectively.

The others boil at 178° C. and 172° C. respectively.

dichoblastic (di-kō-blas'tik), a. [Gr. $\delta i \chi a$, in two, + $\beta \lambda a \sigma t \delta_{\gamma}$, germ, + -ic.] In bot., sympodially dichotomous. Celakovsky.

dichocaltrop (di-kō-kal'trop), n. [Gr. $\delta t \chi \delta_{\gamma}$ ($\delta i \chi a$), in two, + E. caltrop.] In the nomenclature of the spicular elements of sponges, a caltrop with bifurcate arms. See *caltrop, 4.

dichogamism (dī-kog'a-mizm), n. [Gr. δίχα, in two, $+ \gamma \delta \mu \rho \varsigma$, marriage.] Complete hermaphroditism, or the presence of the accessory

reproductive organs as well as of the gonads of both sexes. G. H. Leues.

dichogamy, n. 2. In zoöl., the maturation in hermaphroditic animals of the ova and sperm at different times so as to preclude selffertilization.

dichogeny (di-koj'e-ni), n. [Gr. $\delta i \chi a$, in two, $+ - \gamma \epsilon \nu i \gamma c$, -producing.] The normal development of cells and tissues in an organism in

different ways, in accordance with normal changes in the conditions to which they are exposed.

Dichograptus (dī-kō-grap'tus), n. [NL., < Gr. δίχα, in two, + γραπτός, written, engraved (see graptolite).] A genus of Silurian graptolites in which the hydrosome consists of 8 simple monoprionidian arms originating from the funicle, the latter enveloped in a circular

dichophyllotriæne (dī-kō-fil-ō-trī'ēn), n. $\delta i \chi a$, in two, + $\phi i \lambda \lambda \partial v$, leaf, + $\tau \rho i a \iota v a$, trident.] In the nomenclature of the spicular elements of sponges, a phyllotrizene in which the flat-tened cladisks are forked. dichopterous (di-kop'ter-us), a. [Gr. $\delta i \chi a$, in

uicnopterous (dī-kop'ter-us), a. [Gr. δίχα, in two, + πτερόν, wing.] In entom., having cut or emarginate wings. Syd. Soc. Lex. dichoptic (dī-kop'tik), a. [Gr. δίχα, in two, + Ε. optic.] Having the eyes distinctly separated, not joined together above, as with many insects. Opposed to *holoptic. Cambridge Nat. Hist., VI. 440.

Hist., VI. 440.

Dichorisandra (dī'kō-ri-san'drā), n. [NL. (Mikan, 1820), irreg. ⟨ Gr. δι-, two, + χωρίζειν, separate, + ανήρ (ανδρ-), a male (anther).] A genus of plants of the family Commelinaceæ. There are about 30 species, natives of tropical America, some of which are grown in choice glass-houses for their striking habit and foliage. The flowers, usually not very showy individually, are blue, and grow in large panicle-like clusters. The best-known species in cultivation is D. thyrsifora from Brazil. It has large lanceolate green leaves. Another horticultural favorite is D. mosaica; it has variegated foliage.

dichost (di'kost), n. [Gr. δίχα, in two, + δοτέον, bone.] In ichth., a bone anterior to the bones above the myodome; the basisphenoid. It is very improbable that the bone named basisphenoid in fishes is the homologue of the basisphenoid of the higher vertebrates. *T. Gill.*

dichotic (di-kot'ik), a. [Gr. $\delta(\chi a)$, in two, + $\delta(\chi a)$ ($\delta(\chi a)$), ear, +-ic.] Involving the use of both ears for the simultaneous hearing of tones of different pitch: opposed to diotic: as, dichotic audition; a dichotic experiment.

dichotomistic (dī-kot-ō-mis'tik), a. Of or per-

dichotomistic (di-kot-o-mis tik), a. Or or per-taining to dichotomy or dichotomists: as, the dichotomistic principle of classification. dichotomized (di-kot'ō-mizd), p. a. Divided in half: said of the moon or of one of the in-ferior planets at the moment when exactly half of the disk is illuminated.

dichotomy, n.—Bostrychold dichotomy. Same as helicoid dichotomy (which see, under helicoid).—Law of dichotomy, Mendel's law of ancestral inheritance. See withheritance. Davenport, in Science, Jan. 16, 1906.

dichotrisnic (dī'kō-trī-ē'nik), a. Resembling a dichotrizene, or characterized by a possession of dichotrisenes.

dichotrider (dī-kō-trī'der). n. In the nomenclature of the spicular elements of sponges, a trider having three arms dichotomous. See *trider.

dichotypy (di'kō-ti-pi), n. [Gr. $\delta i \chi a$, in two, $+ \tau i m \alpha$, type, $+ -y \delta$.] The occurrence of two different forms of the same organ on the same plant or stock.

dichoxytriæne (dī-kok-si-trī'ēn), n. in two, $+\delta\xi\psi_{\zeta}$, sharp, $+\tau\rho iava$, trident.] In **dicot** (di'kot), n. A colloquial reduction, among the nomenclature of the spicular elements of botanists. of dicotyledon. sponges, a dichotrizene in which the divided branches are acute.

dichroiscope (dī-krō'i-skōp), n. Same as di

in the late Jurassic. Amer. Jour. Sci., Dec., 1993, p. 416.

δι-, two-, + χρῶμα(τ-), color.] One who possesses only two of the three normal primary color-sensations; a red-blind or green-blind person. The term presupposes the correctness of the Young-Helmholtz theory of color-vision. dichromated (dī-krō'mā-ted), a. In photog., acted on with a bichromate.

dichromic, a. 2. In optical.

acted on with a bichromate.
dichromic, a. 2. In optics, having the property
of dichroism; dichroic.—Dichromic acid. Same as
*pyrochromic acid or *anhydrochromic acid (H2Cr2O7).

dichromism (dī'krō-mism), n. [Gr. δίχρομος, two-colored. ⟨δι-, two-, + χρῶμα, color, + -ism.] Color-blindness as regards one of the three socalled primary colors of the Young-Helmholtz

by transmission through stained glass and the proportion of their admixture is regulated by a polarizing arrange-

dick-a-Tuesday (dik-a-tūz'dā), n. The ignis fatuus; will-o'-the-wisp; jack-o'-lantern. dickcissel (dik-sis'el), n. [Said to be imitative.] The black-throated bunting, Spiza amer-

eave. I the Discr-throated bunting, Spiza americana, a small member of the sparrow family. It is abundant in many parts of the eastern United States, ranging west to Nebraska and south to Arizona. The male has a black patch on the throat and some yellow markings, but the general color above is grayish brown. See Spiza, with cut.

Dickensesque (dik'enz-esk'), a. Resembling or peculiar to the style of Charles Dickens, the novelist.

Dickensian (di-ken'zi-an), a. Of or pertaining to Charles Dickens, the novelist (1812-70), or to his writings or style: as, Dickensian char-

Dickensiana (dik'enz-i-ā'nā), n. pl. [Dickens + i- +-ana.] Collections of sayings, anecdotes, relics, manuscripts, books, editions, works, etc., relating to or connected in any way with Charles Dickens, the novelist.

An important Dickens Exhibition will be held at the Memorial Hall, Farringdon Street, on March 25th, 26th, and 27th, under the auspices of the Dickens Fellowship. This is the first exhibition of Dickensians ever held in London.

Athenseum, Feb. 21, 1903, p. 243.

dickpfennig (dik'pfen'ig), n. [G., 'thick penny.'] A billon coin of Strassburg in Alsace in the seventeenth and eighteenth centuries, equal to 6 batzen.

Dicksonies (dik-sō-ni'ē-ē), n. pl. [NL., < Dicksonia + -ex.] One of the three tribes com-Dicksonia + -ex.] One of the three tribes comprising the family of ferns Cyatheacex. It is distinguished from the other two by having the indusium extorse and formed at least in part by the more or less modified opposed leaf-segment, and further by having the ring of the sporangium provided with a stomium of thinner cells. It includes among others the important genera Cibotium and Dicksonia. See Kyatheacex.

dickthaler (dik'tä'ler), n. [G.. 'thick dollar.']

A small and thick Austrian silver coin of the

year 1484, bearing a portrait of the Archduke Sigismund.

dicky', n.—Dicky Sam, a nickname for a native of Liverpool, England. dicky's (dik'i), a. [Attrib. use of Dicky, dim.]

dicky³ (dik'i), a. [Attrib. use of Dicky, dim.] Poor in quality or condition; 'sorry'; 'queer': as. a dicky lot; a dicky concern. [Slang.] dicky-daisy (dik'i-dā'zi), n. See *daisy. Diclonius (dī-klō'ni-us), n. [NL., < Gr. δι-, two-, + (it is said) κλόνις, the sacrum.] A genus of dinosaurian reptiles described by Cope as having elongated skulls with extended and very broad snout, very large nostrils, and subrectangular orbits. The teeth are closely arranged in an alveolar groove opening inward, the successional teeth forming several tectiform series. It occurs in the Cretaceous rocks and is generally regarded as synonymous with Hadrosaurus and Trachodon.
diccolious (dī-sē'li-us), a. Same as diccolous.

dicelious (dī-sē'li-us), a. Same as dicelous. dicondylic (dī-kon-dil'ik), a. [Gr. &-, two + κόνονλος, a knob, condyle.] Same as dicondylian. [Rare.]

diconic (dī-kon'ik), a. Noting an acid, a colorless compound, $C_9H_{10}O_6$, prepared by the action of concentrated hydrochloric acid on citric acid at 200° C. It forms small crystals, probably of the monoclinic system, and melts at 199-200° C.

botanists, of dicotyledon. dicotyl (di-kot'il), n. [Gr. δ_i -, two-, + $\kappa \sigma \tau i \lambda \eta$, socket (see cotyledon).] Same as dicotyledon.

The main development of the early Dicotyls and other plants constituting the best horizon markers took place in the late Jurassic. Amer. Jour. Sci., Dec., 1903, p. 416.

carpous mosses of the order Bryales. It is typifed by the genus Dicranum (which see), and characterized by erect stems, awl-shaped or bristle-shaped leaves, a simple peristome of 16 teeth, and 1-celled spores. There are 48 genera, chiefly of the temperate zones (only 2 occurring in the tropics), growing in low, moist ground and forming sod or turf.

dicranobranchiate (dī-krā-nō-brang'ki-āt), a and n. I. a. Relating to or characteristic of the *Dicranobranchia*, or possessing plumose dorsal gills.

II. n. One of the Dicranobranchia. theory.

dichronous, a. 2. In bot., having two periods of growth in one year. Syd. Soc. Lex.

dichrofscope (dī-krō' \hat{o} -skōp), n. [Gr. \hat{o} -, two, + $\chi p \hat{o} a$, color, + $\sigma \kappa \sigma \pi \epsilon i \nu$, view.] An instrument for the blending of colors, devised by Heinrich Dove. Beams of colored light are produced

11. n. One of the Dictanoranchia.

Dictanopteris (dī-krā-nop' tē-ris), n. [NL. (Bernhardi, 1806), $\langle Dictanum + Gr. \pi \tau \epsilon \rho i \nu \rangle$, a fern.] A genus of gleicheniaceous ferns. They are scandent trailing or semi-erect and of mostly indeterminate growth, the pinnatifid pinnæ opposite and wholly lateral, borne in pairs far apart upon the wiry.

more or less naked, di- or trichotomously branched

rachides. The genus is one of the most abundant of tropical ferns, often forming impassable thickets in open or half-cleared ground. The species are imperfectly known. See Gleichenia.

Dicromita (dī-krom'i-tā), n. [NL., < Gr. δίκροος



Dicromita agassizi. (From Bull. 47 U. S. Nat. Museum.)

forked, $+ \mu i \tau \sigma_s$, thread.] A genus of deep-sea fishes of the family *Brotulidæ*.

ishes of the family Brotuluae.

Dict. An abbreviation of dictionary.

Dictean (dik-tō'an), a. [L. Dicteus, < Gr.

Δωταίος, < Δίκτη, L. Dicte, a mountain in Crete.

Cf. dictamnus and dittany.] Of or pertaining to Mt. Dicte (or Dikte) in eastern Crete, where Zeus is said to have been reared.

dictational (dik-tā'shon-al), a. [dictation + -al¹.] Of or relating to dictation: as, dictational experiences.

The popular mind . . . has retreated from its uncomfortable dictational attitude and thrown the whole matter over to the States of the South.

G. W. Cable, in The Century, Jan., 1885, p. 402.

dictative (dik-tā'tiv), a. [dictate + -ive.] Of the nature of dictation; characteristic of one who is in the habit of speaking with authority.

He uttered . . . such other dictative mandates as ere necessary.

J. F. Cooper, Pioneera, xxiii. were necessary.

dictatorialism (dik-tā-tō'ri-al-izm), n. [dictatorial + -ism.] The methods or manner of a dictator or dictatorial person.

Dictionary catalogue. See *catalogue.

Dictyoceratina (dik' ti-ō-se-rat'i-n½), n. pl.

[NL., ⟨ Gr. δίκτυον, a net, + κέρας (κερατ-),
horn, + -ina².] One of the two orders of ceratose sponges (the other being Dendroceratina)
having the spongin skeleton in the form of a network of anastomosing fibers. It includes the families Spongidæ, Spongeliidæ, and Aplysinidse.

siniaæ.

dictyodrome (dik'ti-ō-drōm), a. [Gr. δίκτυον, a net, + -δρομος, < δραμείν, run.] Netted-veined, the nerves soon disappearing in the parenchyma of the leaf. See nervation, (a) (5).

dictyodromous (dik-ti-od'rō-mus), a. Same as **dictyodrome*.

dictuodrome

dictyoid (dik'ti-oid), a. [Gr. δικτυσειδής, net-like, ζ δίκτυσ, net, + είδος, form.] Having the form of a net; reticulate; specifically, having both longitudinal and transverse septa: applied to the spores of certain fungi. Same i muriform and *fenestrate. See *Fenestella. Same as

dictyonale (dik-ti-ō-nā'/ē), n.; pl. dictyonalia (-liā). [NL., neut. of *dictyonalis, adj., irreg. Gr. δίκτνον, a net.] In sponges, one of the parenchymal spicules which become fused to form the continuous skeletal framework of the Dictyonina.

Dictyonema, n. This hydrozoan genus is commonly regarded as closely allied to the *Graptoloidea*, but the fronds are funnel- or fan-shaped and the branches connected by transverse bars or dissepiments, the thece or cells being usually quite obscure. It is wholly fossil and ranges from the uppermost beds of the Cambrian into the Devonian.

the Devonian.
dictyopteran (dik-ti-op'te-ran), a. and n. I.
a. Of or belonging to the Dictyoptera.
II. n. A member of the Dictyoptera.
Dictyopteris, n. 2. A genus of the Phæophy-

ceæ, or brown algæ, separated from the other members of the family Dictyotaceæ by the presence of a midrib.

Dictyosiphon (dik'tiō-si'fon), n. [NL. (Greville, 1830), from the tubular, reticulately branching thallus; < Gr. distroy, a net, + ille, 1830), from the tubular, reticulatery branching thallus; ⟨ Gr. δίκτιον, a net, + σίφων, a tube.] A genus of the Phæophyceæ, or brown algæ, occurring in both the North

or brown aigse, occurring in both the North Atlantic and southern oceans. Seven species and varieties are found on the New England coast. Reproduction, as far as known, is only by unilocular sporangia. Dictyospongia (dik*ti-ō-spon'ji-ä), n. [NL., ζ Gr. δίκτυον, net, + σπογνά, sponge.] A genus of extinct hexactinellid silicious sponges, typical of the family Dictyospongidæ and characterized

by its obconical form and the smooth exterior of its reticulum. It is of Devonian age.

Dictyospongidæ (dik'ti-ō-spon'ji-dē), n. pl.
[NL., \(Dictyospongia + -idæ. \] A family of silicious hexactinellid sponges, comprising genera of obconical form and growing as simple individuals, in which the reticulum is principally composed of vertical and horizontal strands and the exterior is variously orna-

of various families and orders of fungi, especially those of the *Pyrenomycetes* and *Fungi Imperfecti*, to include the genera which have spores both transversely and longitudinally ntate.

septate.

Dictyotales (dik-ti-ō-tā'lēz), n. pl. [Dictyota
+ -ales.] An order of the Phæophyceæ or
brown algæ, containing the single family
Dictyotaceæ (which see).

dictyotice (which see).

dictyotic (dik-ti-ot'ik), a. [Gr. δικτυωτός, made in net fashion, < δίκτυων, net.] Pertaining to or characteristic of a network.—Dictyotic moment, in certain Radiolaria, the period during which the akeleton is formed. Also called lorication moment.

Haeckel.

dicyanide (di-si'a-nid), n. [di-2 + cyanide.]

The name of a class of compounds containing two eyanogen radicals, -CN, in the molecule.

dicycle (di'si-kl), n. [Gr. δίκυκλος, two-wheeled, ⟨δι-, two-, + κικλος, circle.] A form of two-wheeled vehicle constructed on the plan of the bicycle, but with the two wheels parallel instead of in line.

dicyclic (di-sik'lik), a. [Gr. δίκυκλος, two-wheeled: see *dicycle.] 1. In two cycles: said of the calyx-base of the Crinoidea when there are two rings of plates between the top-

there are two rings of plates between the top-most joint of the column and the first cycle of plates situated in the projection of the ambu-lacra or arms: contrasted with monocyclic.— 2. Noting organic compounds the atoms of which form two closed chains, each having one or more atoms in common. Also bicyclic. one or more atoms in common. Also bicyclic.

—3. In bot.: (a) Forming or disposed in two whorls, as a perianth or other series of organs. whoris, as a perianth or other series of organs. Jackson, Glossary. (b) Biennial: said of hapaxanthous herbs which require two seasons to mature. Pound and Clements. dicyclist (di'si-klist), n. [dicycle + -ist.] One who rides a dicycle. See *dicycle. N. E. D. dicyemid (dis-i-em'id), n. One of the Dicycrollegic of the Dic

dicymose (di-si'mos), a. Doubly cymose.

Apostles, an apocryphal writing discovered in a manuscript of the year 1056 at Constantinople in 1873. The date of its composition was about the end of the first century A. D. It consists of two parts, the first of general ethical teaching, the second relating to church polity and liturgy.

The metropolitan Ph. Bryennios, who discovered and edited the Didache. Encyc. Brit., XXXI. 384.

The metropolitan Ph. Bryennos, who edited the Didache.

Encyc. Brit., XXXI 884.

Didachist (did'a-kist), n. The unknown author or editor of the Didache. Also called Didachographer.

Didachographer (did-a-kog'ra-fer), n. [Gr. didagathographer (did-a-kog'ra-fer), n. [Gr. didagathographer (did-a-kog'ra-fer), n. [Gr. didagathographer (did-a-kog'ra-fer), n. [Gr. didymate, didymated (did'i-māt, -mā-ted), a. Same as *Didachist.

didascalics (did-a-kal'iks), n. Matters to be taught: subjects of teaching.

Did not the Athenians, the wisest of nations, . . . give to melopæia, choregraphy, and the sundry forms of didagathographer.

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Did not the Athenians, the wisest of nations, . . . give to melopæia, choregraphy, and the sundry forms of didagathographic (did-i-mī'tis), n. [NL., < Gr. didymits (did-i-mī'tis), n. [NL., < Gr. didymits (did-i-mī'tis), n. [NL., < Gr. didymits (did-i-mī'tis), n. [NL., < Gr. didymit (-112). (Gr. statutation, earner περι στουπαιλών, (treatise) concerning (dramatic) productions, the word meaning teaching, and hence the rehearsing or production of a play, < διδάσκειν, teach.] 1. A catalogue of the ancient Greek dramas: such catalogues were preducted by Aristotle. Callimachus. Aristophanes pared by Aristotle, Callimachus, Aristophanes of Byzantium, etc., but are now lost. They contained the names of the dramas and their writers, with dates and other details.—2. A bill or poster, hung in an ancient theater, containing a short notice of the play and performers.

diddle-dee (did-1-dē'), n. In the Falkland Islands, a shrub of the antarctic regions, Empetrum rubrum. It is used for fuel. See Em-

didelphine (di-del'fin), a. Resembling or having the characters of the Didelphia; didel-

Didelphis, n. Same as Didelphys and the pre-ferred (though erroneous) form, under the rule

didelphous (di-del'fus), a. Resembling or having the characters of the Didelphia or Marsupialia.

mented with nodes, tufts, and fringes. The didigonal (di-dig'ō-nal), a. family is closely allied to the living Euplectella, but is regarded as wholly of Paleozoic age.

Dictyosporæ (dik-ti-os'pō-rē), n. pl. [NL., \langle is, one of two-fold symmetry characterized by some of two-fold symmetry characterized by some of two-fold symmetry intersect name applied by Saccardo to artificial divisions di-diurnal (di-di-er'nal), a. [Gr. δι-, two-, + E. digonal.] In mineral., noting a type of symmetry characterized by a dyad axis (that symmetry characterized by a dyad axis (that is, one of two-fold symmetry) in which two planes of symmetry intersect. See *symmetry di-diurnal (di-di-er'nal), a. [di-2 + diurnal.] Twice a day: as a di-diurnal visit. N. E. D. didle (di'dl), n. [Also didal, didall, dydle, dydel.] 1. A triangular spade used for ditching

A sickle to cut with, a didall and crome for draining of ditches, that noies thee at home. Tusser, Good Husbandrie, p. 38. 2. A scoop or dredge on the end of a long pole, used for clearing watercourses or channels. [Prov. Eng. in both uses.]

didodecahedron (dī-dō'dek-a-hē'dron), n. [di-2 + dodecahedron.] A diploid.
didonia (dī-dō'ni-a), n. [NL., < L. Dido (Didon-), Dido. The allusion is to her trick with the hide: see dido.] Of the isoperimetric curves on a given surface, that one which contains the reciprocurve co tains the maximum area.

didromic (di-drō'mik), a. [didrom- y + -ic.] Doubly twisted, as the awns of some grasses. didromy (did'rō-mi), n. [Gr. $\delta \iota$ -, two-, + - $\delta \rho \rho \mu \rho \varsigma < \delta \rho a \mu \epsilon i \nu$, run, + - y^3 .] In bot., double torsion.

diductor (di-duk'tor), n. [NL., < L. diducere, draw apart, < di-, apart, + ducere, draw.] In the articulate orders of the Brachiopoda, one of a pair of muscles which by contraction open the pair of muscles which by contraction open the valves. These muscles originate in a broad base on the anterior part of the muscular area of the ventral valve and are inserted on the cardinal process of the dorsal valve. There is also a pair of small accessory diductors inserted on the cardinal process and originating on the posterior part of the ventral muscular area.

Didymses (did-1-mē'š), n. pl. [NL., < Gr. Διδυμαια, neut. pl. of Διδυμαίος, a name of Zeus, < Διδυμα, Didyma, near Miletus.] In Gr. antiq., a festival in honor of Zeus and Apollo held at Didyma near Miletus, in Acia Miletus, known throws

a festival in honor of Zeus and Apollo held at Didyma, near Miletus, in Asia Minor: known only by late coins and inscriptions.

Didymæum (did-i-mē'um), n. [NL., < Gr. Διουμαίου, prop. neut. of Διουμαίος: see *Didymæa.] A temple or shrine sacred to Zeus and Apollo at Didyma, near Miletus. There was a sacred way leading to it which was built for an earlier temple on the site, and which was bordered by a series of archaic seated figures now in the British Museum. The later building, of which remains still exist, probably dates from about 334 B. c. It was dipteral, with the cella open to the sky.

didymalgia (did-i-mal'ji-ä), n. [NL., < Gr. δίδυμοι, the testicles, + ἀλγος, pain.] Pain in the testicle.

Didymaspis (did-i-mas'pis), n. [NL., \langle Gr. δίδυμος, double, + $\dot{a}\sigma\pi\dot{u}\dot{c}$, a shield.] A genus of fossil fishes from the Old Red Sandstone,

didymoid (did'i-moid), a. [Gr. δίδυμος, twin, + είδος, form.] Having two (twin) cells: applied to the spores of certain fungi.

Others [spores] by a cross-partition become twin or 2-celled (didymoid); others by further parallel cross-partitions become a row of cells (phragmoid).

Underwood, Moulds, Mildews and Mushrooms, iii.

Didymozoön (did'i-mō-zō'on), n. [NL., \langle Gr. δίδυμος, twin, + [ζφον, animal.] The typical genus of the family Didymozoönidæ. Taschenrg, 1879.

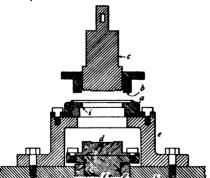
berg, 1819.

Didymozoönidæ (did'i-mō-zō-on'i-dē), n. pl.
rNI. \(\int Didymozoön + -idæ. \] A family of [NL., \ Didymozoon + -idæ.] A family of trematoid Platyhelminthes, of the order Malacrematont Patthernians, or the order Mata-cocotylea (or Digenea). They have an anterior sucker only, mouth within the sucker, and the genital pore ter-maphroditic and live in pairs in cysts. They are found on the integument or in the mouth and branchial cavity of marine fishes. The family includes the genera Didymo-zoon and Nematobothrium.

die³, n. 9. A hard-metal former or working-face for shaping, cutting, or impressing: usu-ally used in pairs. See defs. 5 and 6. Specifi-cally—(a) One of a pair of formers, each with an intaglio

die-back

design, between which is introduced the blank of a coin or medal, and by which, under pressure, a relief is stamped on both sides of the blank. (6) One of a pair of formers on one of which is an intagilo and on the other the complementary came. When a sheet of metal is placed between them, the common design is pressed when the dies of the half the desired design is included between them, and when the dies are brought together, the shape and design are impressed upon the stock. This process of deforing of stock is in very wide use for the parts of guns, seving-machines, wenches, bloycles, and manufactured articles generally. The pressure is secured by the droppress and the fall of a tup or hammer carrying the upper die on its face. (4) One of a pair of formers for stamping spoons, thusare, or brass from the sheet, cutting the blank from the stock, and molding it in one or more operations. Such dies are often quite complex, and involved riswing the metal and starping it from the female die after forming. (c) A surface or anvil to support the stock assinst the blow and shearing action of a punch, and to allow the punch to pass into a hole or recess in it after the shear is completed. Such dies must have the hole alghtly larger than the punch. (f) A special shape of cutting-edge and the complementary recess for cutting soles, uppers, or cards of irregular shape. (g) A hardened steel pattern on the blank by rolling it under pressure. (h) The acting face of a power-hammer, even if smooth. Die-forging for articles to be made in large quantities has practically replaced hand-forging in the Onlited States.— Chombination and double-action die, a die that cuts and bends a blank and continues the work by bending it or drawing it into still another form. See double-action states.—On the blank by rolling it under pressure. (h) The acting and drawing dies, Same as double-action states.—Dis-funking maschine, a milling-machine shaped of the work of the disc of the hour of the press. In some dies the finished were in s



Triple-action Dies.

a, the lower die: b, the upper cutting and holding die: c, the inner drawing die: d, the embossing die rising on plunger through sleeve g, and meeting die c: c, supporting-bolster: i, stripping-edge: h, bed of press.

ing the upper die in two parts moving independently and, in addition, a third die moving upward through the fixed lower die.

die³, v. t.—Dieing-out machine, in shoe-manuf., a power-machine for stamping out, by means of dies, leather to form the soles or other parts of boots and shoes. It is essentially a stamping-press with a cutting or shaping die and a wooden block on which the leather stock is placed to be cut.

die-back (di'bak), n. A disease of the orange-tree and other citrous fruits, limited to Florida

The exact cause is unknown, but it is probably due to malnutrition or the excessive use of nitrogenous ferti-

Dieb. alt. An abbreviation of the Latin diebus

alternis, every other day.

die-block (di'blok), n. A heavy block of castiron which supports the die in a press or punch. The heavier such a block is made, the better it takes up the shock when the punch strikes

Lines. tert. An abbreviation of the Latin die-bus tertiis, every third day. die-chuck (di'chuk), n. A chuck for holding work that is to be turned or bored in a lathe. It consists of a disk having two or more radial slots, in which steel jaws slide, the aliding motion being imparted by screws which can either be worked independently or together, so that the work can be chucked centrally or eccentrically.

diectasis (dī-ek'tā-sis), n. [NL., < Gr. διέκτασις, a stretching, \(\) descriver, stretch, \(\) did, through, \(+ \) interver, stretch: see ectasis.] In pros., lengthening by the insertion of a syllable. See ectasis.

From the scientific point of view there is, of course, not a word to be said in favour of such grammatical monsters as $i\gamma_1$ and $i\rho\dot{a}a\sigma\dot{\theta}e$. But it is perfectly easy to see how they arose from a misunderstanding of the 'Epic dictasis.'

Athenseum, Dec. 29, 1894, p. 884.

die-forging (di'fōr'jing), n. The process of forging metal parts in dies; drop-forging. It is done by means of a die, made usually in two pieces, which is fastened in a hammer or press. In one part of the die a piece of hot metal is placed, which is squeezed into the shape of the die when the latter is closed. Forgings which are to be duplicated many times are usually made by this process. See *die*3.

die-hole (di'hōl), n. The hole in a punching or drawing die. In punching, the die-hole must be

or drawing die. In punching, the die-hole must be large enough to admit the punch and leave a little clearance; in drawing, it must admit the punch and the material which is being worked.

dieidism (dī-īd'izm), n. [Gr. di-, two-, + eidoc, form, + -ism.] The assumption of two different forms during successive stages in the life-history of an organism. Sir J. Lubbock,

Dielasma (dī-ē-las'mā), n. [Gr. δι-, double, + ελασμα, a metal plate.] A genus of Paleozoic terebratuloid Brachiopoda having a short brachial loop and a long free hinge-plate which carries the muscles of the dorsal valve.

Dielectric constant, hysteresis, strength. See *constant, *hysteresis, disruptive *strength. dielectrically (di-ē-lek'tri-kal-i), adv. By dielectric action: as, dielectrically polarized hodies.

die-nut (di'nut), n. A square nut of hardened steel, in which grooves are cut as in a die, which is used for cleaning the threads of bolts

die-plate (di'plāt), n. In steam- or gas-fitting, a screw-plate; a screw-cutting die.
dieresilia (di'e-ē-sil'i-ā), n. [Irreg. < Gr. daipen, to separate, divide, + L. sili(qua), pod.]
Same as carcerule (h). Mirbel.

Same as carcerule (b). Mirbel.
dieresilian (di-er-ē-sil'i-an), a. [dieresilia + -an.] Of or pertaining to a diereselia.
dieresis, n. 5. In crustaceans, the division in

dieresis, n. 5. In crustaceans, the division in the outer branch of the last pleopods.

Dies Iræ (dǐ ēz Ĩ rē). Day of Wrath: the opening words, and hence the name, of a celebrated Latin hymn of the middle ages. It was probably written by Thomas of Celano in the thirteenth century. The Roman Catholic Church still uses it in the funeral service.

Diestian group. See *group1.
diet¹, n.—Turnell diet, a diet containing very little liquid or succulent food.
diethene (dī-eth'ēn), a. [di-² + eth(yl) + -ene.] Containing two ethylene groups: as, diethene diamine, NH < CH2CH2 > NH.
diethenic (dī-e-then'ik), a. Same as *diethene.—Diethenic alcohol. Same as diethene *glycol, CH2 OH.CH2Ch2Ch2OH.
dietheroscope (dī-ē-ther'ē-skōp), n. [Gr. δι-,

dietheroscope (dī-ē-ther'ō-skōp), n. [Gr. δι-, two-, + αἰθῆρ, ether, + σκοπεῖν, view.] An apparatus adapted to the accurate measureapparatus adapted to the accurate measurement of the refractions that occur in mirage. It consists of a telescope within which mirrors, or total reflecting prisms, or additional lenses, are so arranged as to cause two images of any object to appear in the field of view. When used without the telescope the dietheroscope can be arranged as a dipleidoscope or sun-dial; the two images of the sun overlap each other and coincide when the sun centers on the meridian.

diethyl ($d\bar{i}$ -eth'il), n. [$di^2 + ethyl$.] 1. Same as *butane.—2. A combining form used to indicate the presence of two ethyl radicals in the

molecule of an organic compound.

diethylamine (di-eth-il-am'in), n. [di-2 + ethyl + guine.] A colorless inflammable

liquid, $(C_2H_5)_2NH$, prepared by the action of ammonia on ethyl iodide and formed during the putrefaction of fish. It melts at -40° C., boils at 55.5° C., and forms salts with acids similar to those of ammonia.

dietzeite (dēt'sē-īt), n. [Named for A. Dietze, who first described it.] A mineral consisting of the iodate and chromate of calcium, occurring in yellow prismatic crystals and fibrous masses: found in the soda-nitrate deposits of Atacama.

An abbreviation of difference, different, or differs.

difference, n.—Contact difference of potential. See *potential.—Difference hypothesis, in psychophys., the hypothesis that equal stimulus ratios correspond to equal sensation differences. As an interpretation of the facts of Weber's law, the difference hypothesis is opposed to the ratio hypothesis, which makes equal stimulus ratios correspond to equal sensation ratios.—Difference limen, differential limen; in psychophys, the just noticeable stimulus difference; the increment of stimulus which, if all errors of observation were ruled out, would be sufficient to make the resulting sensation just different, with maximal attention, from the original sensation; or the increment of stimulus which, under ordinary conditions of observation after elimination of constant errors, enables the two sensations to be distinguished in 50 per cent. of a large number of comparisons.

With an area of contact of 1 mm. diameter, the dif-

With an area of contact of 1 mm. diameter, the dif-ference limen on the index finger of the right hand was ri to ris. O. Kuelpe (trans.), Outlines of Psychol., p. 160. ference limen on the index finger of the right hand was ri to to to. O. Kuelpe (trans.) Outlines of Psychol., p. 160. Difference of potential. (b) In a social population, more or less capacity for progress, "manifested chiefly in the crossing of cultures."—Frequency difference, in phys., the numerical quantity obtained by subtracting one frequency of vibration, such as that belonging to a given wave-length in a line spectrum, from another.—Method of just noticeable differences, method of least differences, method of minimal differences, in psychophys., one of the four classical methods of sensation measurement. In its later and more perfect forms the method is usually known as the method of minimal changes or as the method of limits. The essential feature of the procedure is that one stimulus is kept constant, while another, taken at first as sensibly like or sensibly different from the standard, is varied by minimal steps until a judgment of difference or of lapse of difference is attained. O. Kuelpe (trans.), Outlines of Psychol., p. 57.—Phase differences, in elect., the difference in time or in angle, when representing a cycle by 360 degrees, between two electric waves, as an alternating current and electromotive current which is found to exist on comparing the cross-section of a nerve with its longitudinal section. Also called nerve current and demarcation current.—Becomd differences, in math., the differences between successive terms of a series of first differences. In the same way the differences, and so on.

Thus we may say that unity which appears in the first

Thus we may say that unity which appears in the first column is the first difference of the numbers in the second column; the second difference of those in the third column; the third difference of those in the fourth, and so on.

Jevons, Prin. of Science, L ii. 9.

To split the difference, to come to agreement by compromise, the difference between the two parties being promise, the difference between the two parties being divided equally; give and take equally in coming to an agreement.

difference-tone (dif'e-rens-ton), n. A third tone set up by the sounding of two simple tones, whose pitch-number is the difference between the pitch-numbers of the two primary tones, or between some multiples of these itch-numbers; one of the two forms of compitch-numbers; one of the two forms of combinational tone.—First difference-tone, in acoustics, a combinational tone produced by the simultaneous sounding of two musical tones which differ in pitch. It has a frequency, f, expressed by the formula: f = u - l, where u is the frequency of the higher and l of the lower of the two tones.—Second difference-tone, in acoustics, a difference-tone having a frequency f = 2l - u, where l and u are the frequencies of the lower and upper tones producing the combination.

differentiability (dif-e-ren'shi-a-bil'i-ti), n.
The property of being differentiable.

differentiable, a. 2. In math., having a determinate finite or determinate infinite deriva-

differential. I. a. 4. In mech.: (a) So constructed that the resulting motion is the algebraic sum of two unequal motions in opposite directions. The resistance moves through a path which is the difference of two velocities impressed by the applied force. Hence a slow motion of the resistance is the consequence of the moving force acting through a considerable space, and a small moving force overcomes great resistance. Used in hoisting-pulleys, double screws, and similar devices.

(b) Having differing velocities, as automobile driving-shafts when rounding corners and curves, and rollers for grinding grain.—5. Selectives, and rollers for grinding grain.—6. Set lective; having different effects upon different kinds of material: as, differential weathering. The facts collected pointed to the conclusion that this type of valley was due to differential preglacial decay.

Geog. Jour. (R. G. S.), XV. 652.

Differential brake, count, counter-shaft, etc. See *brake3, *count1, *counter-shaft, etc. — Differential winding. (b) A winding consisting of two sections, which are excited by two different currents, as a shunt

and a series current, in such a manner that their magnetic effects are in directions opposite to each other.—
Exact differential equation. See *equation.

Exact differential equation. See **equation.

II. n.—Differential of a function the increment of a function so changed or 'doctored' that its ratio to the increment of the independent variable equals the limit of the ratio of the unchanged incrementa.—Exact differential. If \$M / kx = \$N / ky, then Mdy + Ndx is an exact differential.—Second differential. Since the differential of a function is, from its definition, usually a new function of the independent variable, its differential may be taken, and is called the **second differential.* The second differential of y is written day. In the same way we get the third differential, d3y; etc.

differentiant, n. II. a. Of or pertaining to a discontinuous variation, sport, mutation, or inherited change in the type of a race or species.

species.

Of course Mr. Bateson may say that there is really differentiation there; it is he, however, who identifies "differentiant" diversity and "discontinuous variation."

Biometrika, April, 1908, p. 332.

Differentiant variation. See *variation. differentiate, v. t. 5. In hist. and cytol., to reveal or resolve structures in (a cell, tissue, or organ) by treating with some stain or reagent.

differentiation, n. 5. In geol., the genera' process by which a parent mass of molten rock of intermediate composition, standing in a reservoir for long periods of time, breaks up or differentiates into several fractional deriva-

organization before it exhibits visible organization.

diffidation (dif-i-dā'shon), n. [ML. diffidation-tio(n-), < diffidare, renounce, defy: see defy.]

Formal relinquishment or renunciation of faith, allegiance, or amity: solemn defiance of an enemy; declaration of hostilities: as, to send a letter of difidation.

The primeval legislation of the Teutons permitted to be vassal . . . the right of diffidation—he might undo his faith.
Sir F. Palgrave, Hist. of Normandy and Eng., II. L.

Diffraction band. See diffraction.—Diffraction corona, glory, halo, meteorological phenomena caused by diffraction of light, as distinguished from similar phenomena which may be caused by reflection, refraction, or dispersion. The diffraction circles that occur in coronas, glories, and halos have small diameters and are much closer together than those due to reflection and dispersion; moreover, in the former the red circles are within the blue, while in the latter they are outside of the blue.

Diffuser reflection. See *reflection.

diffuser. n. 2. In elect.. a reflector placed

diffuser, n. 2. In elect., a reflector placed above an arc-lamp



a, outer globe; b, concentric diffuser; c, case; d, cut-out switch; c, suspension-hook.

for the purpose of more uniformly dismore uniformly distributing its light.

—Concentric diffuser, a diffuser containing a number of concentric rings or waves, shaped so as to distribute the light uniformly over the lower hemisphere, and enan-eled with a color tinged alightly yellow, so as to compensate for the bluish light of the arc.

diffuser - chamber (di-fū'zer-chām'ber), n. A box or chamber in which a spray of water, oil, or other liquid is spread out into very fine particles.
diffusibility, n. 2. Capability of spreading widely: as, the diffusibility of scarlet fever.

widely: as, the diffusion, dispusse effected by means of galvanism.—Coefficient of diffusion. See *coefficient.—Diffusion constant. See *coefficient.—Diffusion process, an important method of extracting sugar in aqueous solution from beet-roots cut into slices: sometimes applied also to sugar-cane.—Fractional diffusion. Same as atmolysis.—Law of diffusion. (a) In phys., the law, formulated by Fick, that in a mixture

of salt and water, so distributed that the layers of equal density are horizontal, the number of grams of salt which will pass in unit time through unit area of a horizontal

plane is $R \frac{dn}{dx}$; where n is the number of grams of salt per piane is n = n is the number of grams of salt per cubic centimeter in the layer in which the plane is located, x is the height (above a fixed plane) of the layer, and R is a constant called the diffusivity. (b) In psychol., the law, formulated by A. Bain, that "according as an impression is accompanied with feeling, the aroused currents diffuse themselves freely over the brain, leading to a general agination of the moving organs, as well as affecting the viscera." Emotions and Will, p. 4.—Thermal diffusion. See diffusion of heat, under diffusion.

diffusionist (di-fu'zhon-1st), n. One who believes or adheres to some theory of diffusion, as the diffusion of taxes (which see, under dif-

diffusivity, n. 2. Specifically, in phys., a physical constant expressing the rate of diffusion of a dissolved substance in the solvent. The diffusivity (R) is defined by the equation: $a = R \frac{dn}{dx}$, in

which α is the number of grams of the dissolved substance which will pass in unit time through unit area of a horizontal plane, a the number of grams of the substance per cubic centimeter of the layer in which the plane lies, and x is the height of the layer above a fixed plane. Horizontal layers in the solution are everywhere of equal den

sity.—Thermal diffusivity, the quantity $\frac{k}{cp}$, in which kis the conductivity for heat of the substance, c its specific heat, and p the density. Also called thermometric conheat, and ductivity.

dig-dig (dig'dig), n. Same as *dik-dik.
digeny (dij'e-ni), n. Digenous reproduction.
Syd. Soc. Lex.

digestant (di-jes'tant), a. and n. [digest + -ant1.] I. a. Aiding or improving digestion.

II. n. An agent used to promote digestion. II. n. An agent used to promote digestion. digesting-flask (di-jes' ting-flask), n. In chem. and bacteriol., a flask used to contain liquids which are to be maintained at a desired tem-

and bazerotic, a flask used to contain liquids which are to be maintained at a desired temperature for a longer or shorter time. Digestion products. (a) The products of albuminous digestion. The first step in the process of protective digestion depends upon the reaction of the digestive medium. But the product of the subminous molecule is effected, whereby the individual physical characterists of the different members of the products of the subminous molecule is effected, whereby the individual physical characterists of the different members of the products of the subminous molecule is effected, whereby the individual physical characterists of the different members of the products of the subminous and some of their characteristics to doubt as a subminous, and some of their characteristics to doubt as the products of the subminous, and some of their characteristics to doubt as the products of the molecule. As a class they are much more soluble than the albumina, and some of their characteristics to doubt are referable to the smaller size of the molecule. As a class they are much more soluble than the albumina, and some of their characteristics to doubt are early products are required, namely, hereach the subminous and the carbohydrate group. The secondary products, of destroach the subminous and the subminous and the carbohydrate group. The secondary products of destroach the subminous molecules where the subminous molecule

such as Siegfried's kyrin, obtained from glutin, which apparently consists of one molecule of arginin, one of lysin, one of glutaminic acid, and two of glycocoll. While formerly only two proteolytic ferments were known to be concerned in the digestion of albumins, Cohnheim has recently shown that a third ferment of this order is found in the mucous membrane of the intestinal tract. This is known as erepsin. In its general behavior and the rapidity of its cleavage-action this ferment resembles trypsin, but it differs from this in its inability to attack the native albumins, while acid albumins and albumoses are readily broken down to end-products which no longer give the biunet reaction. All these data suggest that the older concept of the restitution of the albumins from relatively complex bodies in the intestinal mucous membrane must be abandoned and that the reconstruction of the molecule takes place from much simpler bodies. Where this occurs is as yet a matter of speculation, but there are reasons to believe that it may take place beyond the intestinal barrier, and possibly in the tissues of the body at large. (b) The products of carbohydrate digestion. Carbohydrate digestion is effected by the inverting ferments of the saliva, the pancreatic juice, and the enteric juice. The effect is quite analogous to what occurs in the case of the albumins, that is, there is a cleavage of the more complex bodies to relatively simple substances. The number of these end-products, owing to the amaller size of the molecule of the original material, is, however, much smaller, and all belong to one group, the monosaccharides, of which dextrose (glucose) and levulose are familiar examples. These are derived from corresponding disaccharides, which can be compared to the dipeptides, and in which two monosaccharine nolecules still exist in combination. The most notable representatives of this order are maltose, which on further digestion for playsaccharides, and in which two monosaccharine, and in which two monosaccharine, and in

finger, + pinnatus, pinnate.] Same as digitately pinnate (which see, under digitately). digitogenin (dij-i-toj'e-nin), n. [digit(alis) + -gen + -in^2.] A colorless compound, $C_{15}H_{24}O_{3}$, formed by the action of dilute hydrochloric control digitaling. formed by the action of clittle hydrochloric acid on commercial digitalin. It crystallizes in needles which soften at about 250° C. digitonin (dij-i-tō'nin), n. $[digit(alis) + -one + -in^2$.] A colorless levorotatory glucoside, $C_{27}H_{46}O_{14}5H_{2}O$, found in commercial digitalin. It crystallizes in slender needles which

talin. It crystallizes in slender needles which soften and turn yellow at 235° C. digitophyllin (dij'i-tō-fil'in), n. [digit(alis) + Gr. φiλλον, leaf, + -in².] A crystalline glucoside, C₂₂H₅₂O₁₀, a powerful heart-poison contained in foxglove, Digitalis purpurea. digitoplantar (dij'i-tō-plan'tšr), a. [L. digitus, finger, toe, + planta, sole.] Relating to the sole of the foot and to the toes. digitoricanin (dij-i-tok'si-ie-nin), n. [digitalis purpurea]

digitoxigenin (dij-i-tok'si-je-nin), n. [dig-itox(in) + -gen + -in².] A colorless crystalline compound, $C_{22}H_{52}O_4$, formed by the action of alcoholic hydrochloric acid on digitoxin. It melts at 230° C.

mets at 230° C.

digitoxose (dij-i-tok'sōs), n. [digitox(in) + -ose.] A colorless dextrorotatory sugar, $C_6H_{12}O_6$, formed, together with digitoxigenin, by the action of alcoholic hydrochloric acid on digitoxin. It erystallizes in prisms or plates and melts at 102° C.

diglossia (di-glos'i-ä), n. [NL., < Gr. δίγλωσσος, two-tongued, < δι-, two-, + γλωσσα, tongue.]
A condition of having a double tongue.

diglottism (di-glot'izm), n. [diglot + -ism.]
The use of two languages among a people, or of words derived from two languages.

Words run much in couples, the one being English and the other French. . . In the following . . . from [Chaucer's] Prologue, there are two of these diglottisms in a single line:—

'Trouthe and honour, fredom and curteisye.'
'Trouthe' is 'honour,' and 'fredom' is 'curteisye.'

J. Earls, Philol. Eng. Tongue, ¶ 78.

diglottist (dī-glot'ist), n. One who speaks two languages.

diglyoxaline (di-gli-ok'sa-lin), n. Same as alucosine.

diglyphic (di-glif'ik), a. [Gr. δι-, two-, + γλυφή, a carving, + -ίc.] Having two siphonoglyphs, as certain polyps: contrasted with *monoglyphic.

dignathus (dig'na-thus), n.; pl. dignathi (-thi).
[NL., ζ Gr. δι-, two-, + γνάθος, jaw.] In teratol.,
a monster having a double lower jaw.

dignitarial (dig-ni-tā'ri-al), a. [dignitary + $-al^1$.] Of, belonging or peculiar to, a dignitary: as, the perversity of the dignitarial mind. digonal (dig'ō-nal), a. [Gr. di-, two-, + $\gamma \omega via$, angle, + $-al^1$.] Noting an axis of binary or twofold symmetry; specifically, one of the six

axes of an isometric crystal normal to the dodecahedral faces. See *symmetry.

Digonopora, n. pl. 2. A section of hermaphrodite mollusks in which there are separate orifices for the male and female organs: opposed to Monogonopora. It contains the Linnæidæ, Vaginulidæ, Onchidiidæ, and many opisthobranchs, including all the Pteropoda.

digraphic, a. 2. Written in two distinct alphabets or characters, such as longhand and shorthand: as, a digraphic copy-book.

This was a bilingual (or digraphic, as both inscriptions are in the same language), published by De Vogué.

Scribner's Monthly, June, 1880, p. 206.

digrediency (di-grē'di-en-si), n. In math., the relation of digredient sets of variables.
digredient (di-grē'di-ent), a. [L. digrediens, ppr. of digredi, digress: see digress.] In math., said of two sets of variables if on replacing the variables of the first set by linear func-tions of themselves, those of the second set become also replaced by different linear func-tions of themselves.

digressionary (di-gresh'on-ā-ri), a. [digression + -ary.] Of the nature of a digression; diressive.

digynious (dī-jin'i-us), a. In bot., belonging to the Digynia, in the Linnæan classification. See Diamia.

[L. digitus, dihalogen (dī-hal'ō-jen), a. [di-2 + halogen.] In chem., containing two atoms of a halogen element, replacing two atoms of hydrogen, as in dichlorbenzene. C₆H₄Cl₂, or chlorbrom-

benzene, C₆H₄Cl Br.
dihedral, a. II. n. In geom., a pair of consecutive faces of an angloid.
dihexagonal, a. 2. In crystal., noting a type of symmetry characterized by a hexad axis

dihexagonal (that is, one of six-fold symmetry) in which six planes of symmetry intersect. See *sym-

metry.

dihydrate (di-hi'drāt), n. [Gr. δι-, two-, + ν̄θωρ, water, + -atel.] In chem., a compound on taining two molecules of water, commonly of water of crystallization.

dihydrated (di-hi'drā-ted), a. In chem., containing two molecules of water, commonly of water of crystallization. Thus, alabaster is dihydrated calcium sulphate, CaSO.2H2O. G. Lunge, Sulphuric Acid, II. 21.

dihydric (di-hi'drik), a. [Gr. δι-, two-, + ν̄θωρ (ν̄θρ-), water, + -ic.] In chem., containing two atoms of basic or easily replaceable hydrogen: as, sulphuric acid is a dihydric acid (H2SO4).

dihydriodide (di-hi'dri-ō-did or -did), n. [di-2 + hydrogen) + iod(ine) + -idel.] In chem., a compound formed by union with the elements of two molecules of hydriodic acid.

dihydrobromide (dī-hi-drō-brō'mid or-mīd), n. [di-2 + hydro(gen) + brom(ine) + -ide².] In dila;

 $[di^2 + hydro(gen) + brom(ine) + -ide^2.]$ In chem., a compound formed by union with the elements of two molecules of hydrobromic

elements of two molecules of hydrobromic acid.

dihydrochlorid (di-hi-drō-klō'rid), n. [di-+hydro(gen) + chlor(ine) + -id 1.] In chem., a compound formed by union with the elements of two molecules of hydrochloric acid.

dihydrolutidin (di-hi-drō-lū'ti-din), n. A ptomaine (C₇H₁₁N) found in cod-liver oil.

dihydroxy-acid (di-hi-drok'si-as'id), n. In chem., an acid containing two combining units of the radical hydroxyl (HO), as tartaric acid.

T. E. Thorpe, Dict. Applied Chem., I. 666.

dihydroxyl (di-hi-drok'sil), a. [di-2 + hydroxyl.] In chem., containing two combining units of the radical hydroxyl (HO): as, tartaric acid is a dihydroxyl acid.

dihydroxytartaric (di-hi-drok'si-tär-tar'ik), a. [di-2 + hydr(ogen) + oxy(gen) + tartaric.]

Noting an acid, a colorless crystalline compound, HOOCC(OH)₂C(OH)₂COOH, formed by the oxidation of dihydroxymalic acid. It melts at 98° C. Also dioxytartaric.

diodide (di-i'o-did), n. [di-2 + iodide.] In chem., a compound containing two atoms of iodine.

diiodocarbazol (di-i'ō-dō-kar'ba-zol), n. [di-2 + iod(ine) + carbazol.] A yellow odorless crystalline compound, $C_{12}H_{6}l_{2}.NH$, obtained by adding iodine to boiling carbazol. It is antiseptic, insoluble in water, but easily soluble

by adding iodine to boiling carbazol. It is antiseptic, insoluble in water, but easily soluble in ether, chloroform, and hot alcohol.

diodoform (dī-ī'ō-dō-fôrm), n. [di-² + iodoform] A bright-yellow crystalline compound, C₂H₂I₂, obtained by the action of iodine on acetylene diiodide. It is an antiseptic.

diodosalol (dī-ī'ō-dō-sal'ol), n. [di-² + iodofoine) + salol.] An odorless, tasteless crystalline compound, C₂H₂I₂(OH)CO₂C₂H₅, obtained by condensation of diiodosalicylic acid with phenol. It is an antiseptic. Also called phenyl ester of diiodosalicylic acid.

diionic (dī-ī-on'ik), a. [di-² + ion + ic.] In phys. chem., producing two ions by electrolytic dissociation. Physical Rev., Dec., 1904, p. 370.

diisatogen (dī-is'a-tō-jen), n. [di-² + isat(in) + -gen.] A red compound, C₁₆H₈O₄N₂, prepared by the action of sulphuric acid on dinitro-diphenyl-diacetylene. It crystallizes in needles, and is readily converted into indigo by reducing agents.

Diisoteria (dī-ī-sō-tē'ri-ā), n. pl. [Gr. Δωσωτήρω, neut. pl., ⟨Zeig (g. Δiog), Zeus, + σωτήρ, savior.] In Gr. antiq., an Attic festival held at about the fourteenth day of the month Scirophorion (June) in honor of Zeus Soter and Athena Soteira.

Dika almonds, butter. See *almond, *butter1.

dik-dik (dik'dik), n. [Also dig-dig; African.]

A small African antelone. Madagang nhillinsi

dik-dik (dik'dik), n. [Also dig-dig; African.]
A small African autelope, Madaqua phillipsi.

No game here at this season, except the little dik dik; all is silent and desolate. Geog. Jour. (R. G. S.), XI, 28.

dike, n.—Bluedike, a bluish-gray clay soil. [New Brunswick and Nova Scotia.] See the extract.

Near the edge of the upland, it [the soil] passes into a gray or bluish-gray clay called 'blue dike.'

Daucson, Acadian Geol., iii. 25.

Composite dike, in petrog., a dike formed by intrusions of two different rocks at different times into one fissure.

—Corky dike. See *corky.—Intersecting dikes, in geol., dikes which cross each other, the later one being always continuous as compared with the older one which is cut by it. See dike, 5.—Multiple dike, in geol., several parallel dikes which essentially form one whole yet are separated by intervening masses of other rock. Set dike, 5.—Sand-dike, a name given by the miners in the Scottish coal-fields to a former stream-course filled with

sand.—Sandstone dike, sandstone filling a fissure and resembling an intrusive dike. The fissure is generally believed to have been formed during an earthquake and to have been filled with an uprising emulsion of sand and mud which has afterward hardened. diketone (di-kē'tōn), n. $[di\cdot^2 + ketone.]$ One of a class of organic compounds the molecules of which contain two carbonyl radicals,

neither of which is linked to hydrogen or hydroxyl. The diketones are subdivided, according to the degree of proximity of the carbonyl groups, into 1, 2 or a-diketones, having the complex RCOCOR; 1, 3 or \$\beta\$-diketones, RCOCH_2COR; 1, 4 or \$\gamma\$-diketones, RCOCH_2COR; etc.

An abbreviation of the Latin dilutus, dilute.

dilute.

dilactic (di-lak'tik), a. [di-2 + lactic.] 1. Of
or pertaining to dilactic acid.—2. Noting a
compound which contains two univalent lactyl
radicals, CH₃CHOHCO, in the molecule.—Dilactic acid, a hypothetical acid, HOCOCH(CH₃)OCOCH
(OH)CH₃, known only in the form of its esters and other
derivatives, which are obtained from ethyl chlorpropionate and ethyl sodium lactate.

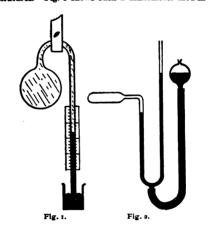
dilapidation, n. 3. In eccles. law, the amount charged against an incumbent for damages incurred during his incumbency.—4. In geol., the process by which exposed ledges become diminished or destroyed through the falling away of fragments of rock; also, the material

dilatant, n. 3. In phys., the liquid or gas, within a dilatometer, the expansion of which is to be measured.

dilatation, n. 5. In elasticity, change of vol-dilatometric (dil-ā-tō-met'rik), a. Of or perume under stress.

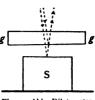
dilatational (dil-ā-tā'shon-al), a. Of or pertaining to dilatation.

dilatometer (dil-ā-tom'e-ter), n. [Irreg. < L. dilator, a. II. n. In law, a plea or other dilatare, expand (see dilate), + Gr. µtrpov, a proceeding in a suit which is intended to demeasure.] An instrument for the determination of the changes of volume of a substance Dilemmatic demonstration. See *demonstration. or for the measurement of its linear expanor for the measurement of its linear expansion. The form used for the determination of the relative expansion of liquids is essentially a thermometer with a greatly enlarged bulb. The bulb, including a portion of the neck, is filled with the liquid the expansion of which is to be measured, and the position of the end of the liquid column in the neck is noted at different temperatures. Fig. 1 shows such a dilatometer used in the



determination of the coefficient of expansion of liquids containing gases in solution. The neck is bent vertically downward and the open end is submerged in a vessel of mercury. Upon cooling the liquid within the bulb the mercury column rises in the neck, and its position is noted upon a scale attached to the neck for that purpose. For the measurement of the expansion of gases an instrument similar to the air-thermometer is employed. The dilatometer in this case consists of a glass bulb (fig. 2) the neck of which is connected with a mercury manometer. The gas may thus be maintained at constant pressure and its change of volume observed, or the pressures may be varied in such a way as to keep the gas at constant volume. For the measurement of the cubic expansion of solids a modification of the dilatometer for liquids has been employed by Dulong and Petit, Regnault, Kopp, and others. In such determinations the solid is inclosed in a glass bulb or tube (fig. 3) the opening of which is then drawn out to form a capillary neck. The space within the bulb not occupied by the solid is completely filled with mercury. When the dilatometer is heated a certain amount of mercury is driven out by the combined expansion of the material is computed. The linear expansion of solids is measured in some cases by the direct observation, through microscopes, of parallel lines drawn upon the surface of the test-piece. This method, known as that of Roy and Ramsden, can be employed only when expansion to be measured is that of a long bar, and even for such purposes it has been superseded by more delicate methods. In one form of dilatometer for more refined measurements of the linear coefficient of expansion the bar is fixed at one end, while to the other

end, which is free to move with the change of length of the bar, is attached a device for tipping a small mirror. By observing the movement of the image of a scale seen in this mirror, very minute changes in the length of the bar may be detected. The most refined form of dilatometer for the measurement of the linear expansion of solids, and that which is usually employed for this purpose (especially in cases where the size of the test-plece is small, as in crystals), depends upon the interference of light. This extremely sensitive method, in which expansion is measured in the terms of wave-length of light, was first employed by Jamin, whose device, further perfected and developed by Michelson, has become one of the most important of optical instruments, the *inter-ferometer* (which see). A special form of interferometer adapted for the rapid and accurate measurement of the linear expansion of solids is the *Abbe dilatometer*, the principle of which is indicated in fig. 4. In this instrument a glass plate, \$g, is mounted above the specimen, S. Both surfaces are plene, but not parallel, so that a thin wedge of air lies between them. A ray of monochromatic light from above is in part reflected from the lower face of \$g, and in part from the surface of the specimen. These two reflected from the lower face of \$g, and in part from the surface of the specimen. These two reflected from the lower face of \$g, and in part from the surface of the specimen. These two reflected from the lower face of \$g, and in part from the surface of the specimen. These two reflected from the lower face of \$g, and in part from the surface of the specimen. These two reflected from the lower face of \$g, and in part from the surface of the specimen. S. Both surfaces are plene, but not parallel, so that a thin wedge of air lies between them. A ray of monochromatic light from above is in part reflected from the lower face of \$g, and in part from the surface of the specimen. S. Both surface of the specimen. S. Both surface of the specimen for th



taining to the measurement of expansion; relating to or determined by means of the dilatometer. Nature, July 2, 1903, p. 216. dilatory, a. II. n. In law, a plea or other proceeding in a suit which is intended to delay the suit without reference to its merital temperature. See Edemonstration.

Dilephila, n.— Dark-veined Dilephila, a cosmopolitan aphingid moth, *Dilephila gallii*, found in Europe, Asia, and North America. Its larves feed on grape and pursiane.

dilettante (dil-e-tan'te), v. i.; pret. and pp. dilettanted, ppr. dilettanting. [dillettante, n.]
To play the dilettante.
dilettantist (dil-e-tan'tist), a. [dilettante+-ist.] Affected with or characterized by dilet-

-ist.] Affected with or characterized by dilettantism: as, dilettantist philanthropy.

dilettantize (dil-e-tan'tiz), v. i.; pret. and pp. dilettantized, ppr. dilettantizing. [dilettante + -ize.] Same as *dilettante.

Diligence against the heritage, in Scots law, an execution in favor of a creditor against the person, in Scots law, an execution by which a creditor proceeds against the person of his debtor.—Diligence against witnesses, in Scots law, a process by which the attendance of witnesses is compelled.—Diligence incident, in Scots law, a process to cite witnesses and examine havers, similar to the English subpens for witnesses and order for taking testimony and for interrogatories.—Diligence to examine havers. Same as *diligence incident.—Becond diligence, in Scots law, a second execution or process issued when the first has been diargarded or disobeyed, similar to the English attachment for contempt.—Summary diligence, in Scots law, an execution or process issued when the first has been diargarded or disobeyed, similar to the English attachment for contempt.—Summary diligence, in Scots law, an execution or process issued in a summary manner.

dilituric (di-li-ti/rik), a. Noting an acid, a

dilituric (di-li-tū'rik), a. Noting an acid, a compound. CO(N₂H₂)C₃H(NO₂)O₂.3H₂O, formed by the action of fuming nitric acid on barbituric acid. It crystallizes in quadratic plates or prisms which dissolve in water or dilute alkali with an intensely yellow color. Many of the salts explode when heated. Also nitrobarbituric.

dill, n. See *dilly4.
dill-water (dil'wa'ter), n. An aromatic carminative water prepared from the volatile oil of dill or by distilling dill fruit with water.

dilly (dil'i), n. [Also dill; said to be native Australian.] A bag woven of grasses or of fur twisted into cord; a small bag of any ma-

fur twisted into cord; a small day of any material. [Australia.] dilly-bag (dil'i-bag), n. Same as *dilly4. diloph (di'lof), a. [Gr. δίλοφος, of two crests, ζδι-, two-, + λόφος, a crest.] Having two arms dichotomous, as in the spicules of sponges. A diloph tetraclone is a four-armed spicule with two of the arms thus bifurcated.

dilophous (dil'ō-fus). a. [Gr. δίλοφος, of two

dilophous (dil'ō-fus), a. [Gr. δίλοφος, of two crests, + -ous.] In sponge-spicules, having two of the rays forked or branched. dilution, n. 3. In homeopathy, the diffusion of a given quantity of a drug in ten or one of a given quantity of a drug in ten or one hundred times the same quantity of water. A given quantity of this solution is again diffused in ten or one hundred times the quantity of water. Each of these processes is called a dilution, and the resulting preparation is said to be of the tenth, fifteenth, etc., decimal or centesimal dilution according to the number of times the operation was repeated and as the quantity of water in each operation was ten or one hundred times that of the dissolved drug.— **Heat of dilution**, the heat developed by adding to a solution, containing a grammolecule of the dissolved substance, an amount of the solvent sufficient to double the volume.— **Ostwald's dilution law**, in phys. chem., the law that if v is the number of liters of a solution which contains a gram-molecule of the dissolved electrolyte, and m that fraction of the gram-molecule of the electrolyte which is electrolytically dissociated

another is Van t'Hof's dilution law, $\frac{m^{\frac{3}{2}}}{(1-v)\sqrt{v}} = \text{constant}$.

mangan(ese) + -ous.] In chem., containing two atoms of manganese.

Dime museum. See *museum.

Dimension lines, shingle, stone. See *kine2, *khin-zhone.—Equation of dimensions. See *keyes.

See *keyes.—Equation of dimensions. See *keyes.

a fourth analogous in character. For exhibiting the relations become leddy by the regarded by seeing at 187°C.

Dimension lines, shingle, stone. See *keyes.

See *keyes.

Dimension lines, shingle, stone. See *kine2, *khin-zhone.—Equation of dimensions. See *keyes.

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Dimension lines, shingle, stone. See *kine2, *khin-zhone.—Equation of dimensions. See *keyes.

Dimension lines, shingle, stone. See *kine2, *khin-zhone.

Jekes Pelve dimensions. (di-mô'shi-n), n. [Jo paras or about 20 United States cents.

Dimension lines, shingle, stone. See *keyes.

Dimension line

Prophetic and well-timed were the parting words to the speaker of the illustrious Tchebicheff: "Take to Kinematics, it will repay you; it is more fecund than geometry; it adds a fourth dimension to space." So also said

tt adds a journe Gardina Lagrange.

Lagrange.

Sylvester, Discoveries Mech. Conver. of Motion, p. 17. If it became necessary to assume the existence of five atoms at equal distances from one another in a molecule, there would be evidence of a fourth dimension. C. H. Hinton, in Harper's Mag., July, 1904, p. 232.

Rough dimensions, dimensions which are not exact, but which are larger than the finished measurement

Dimensional equation, formula. See *equa-

tion. *formula.

dimere (di'mēr), n. [Gr. διμερής, of two parts, ζ δι.. two-. + μέρος, a part.] In the skeletons of the reticulate hexactinellid sponges, a mesh of the second order, made by the intersection of the secondary spicular bands of a primary onadrule.

dimeric (di-mer'ik), a. [dimer(ous) + -ic.] 1. Bilateral, or having a right and a left side, as in most animals: contrasted with *polymeric. Comparison of bilateral or dimeric animals with rotate

or polymeric animals.

L. H. Bailey, Smithsonian Rep., 1897, p. 455.

In bot., same as dimerous.

 In bot., same as aimerous.
 Dimerosporium (di'mer-ō-spō'ri-um), n. [NL., Gr. διμερής, of two parts, + σπορά, seed (spore).] A genus of epiphytic fungi of the family Perisporiaceæ, having membranous or subcarbonaceous perithecia seated upon a subcarbonaceous perithecia seated upon a subiculum of brown mycelium. The spores are hyaline or brown, and have two cells, as the name indicates. About 60 species have been described, occurring mostly on living leaves in tropical or subtropical regions. D. mangiferum causes the black blight of the mango. See black *blight (a).

dimery (dim'e-ri), n. [NL. *dimeria, < Gr. dueons, of two parts.] In bot., the condition of being dimerus!

of being dimerous.

In the pentamery and dimery of Dicotyledones there is usually a posterior sepal with a pair of lateral prophylla.

Rucyc. Brit., XXV. 433.

dimetaphosphate (dī'met-a-fos'fāt), n. + metaphosphate.] In chem., a salt which contains the radical P_2O_6 , resulting from the coalescence of two combining units of the

ence of two methyl-groups in the molecule of compound.

dimethylacetal (di-meth-il-as'e-tal), n. colorless ethereal liquid compound, CH3.CH

of ethyl and methyl alcohol. It is anesthetic. dimethylamine (di-meth-il-am'in), n. A colorless gas, (CH₃)₂NH, present in herring-brine, and formed by the putrefaction of fish, gelatin, and proteid material in general. It is prepared by the action of sodium hydroxid on nitrosodimethylaniline, boils at 7.2-7.3° C., and resembles ammonia in its odor and in the constitution of its salts.

dissolved electrolyte, and $\frac{m^2}{(1-v)m}$ cule of the electrolyte which is electrolyteany unserted into ions, the equation $\frac{m^2}{(1-v)m}$ = constant is true for certain classes of electrolytes. Good electrolytes do not obey the law, the reason for this being unknown. For good electrolytes empirical relations have been suggested; one is trolytes empirical relations have been suggested; one is $\frac{m^2}{(1-v)\sqrt{v}}$ = constant; dimethylariline orange. See *orange1. dimethylariline (di-meth-il-är'sin), n. A colorless mobile liquid, (CH₃)₂AsH, prepared by the action of zine and hydrochloric acid on according to the constitution of its saus. cacodyl chlorid. It boils at 36° C., has the odor and poisonous properties characteristic of cacodyl derivatives, and burns spontaneously in air. Also called cacodyl

diminish, v. i. 2. To taper, as a column.

—Law of diminishing returns. See *law1.

Diminished column, stile. See *column, *stile1. diminishing-rod (di-min'ish-ing-rod), n. A device on a cotton-roving machine for giving the bobbin of roving its conical ends. Nasmith,

the bobbin of roving its conical ends. Naemith, Cotton Spinning, p. 207.

diminution, n.—Figure of diminution, in musical notation, a numeral, usually with a curve inclosing the notes affected, signifying that the latter are to be performed as a group with less than their normal time-value. Such groups are the duote, triplet, quartole, quintole, sectole, etc., the signs for which are ?, ?, ?, ?, ê, etc., respectively.

tole, etc., the signs for which are ?, ?, 4, ?, 6, etc., respectively.

dimity, n. 2. A thin cotton fabric, either white or colored, resembling muslin, distinguished by raised threads or cords which run lengthwise of the cloth.—Dimity ruffling, dimity cloth platted longitudinally in weaving.

dimmer (dim'er), n. In elect., an adjustable reactive coil used for reducing the amount of light of incandescent lamps.

light of incandescent lamps.

dimolecular (di-mō-lek'ū-lār), a. [di-2 + molecular.] Same as *bimolecular.

Since that time Piloty has practically completed the proof of the dependence of the green or blue color upon the monomolecular condition and of the white or coloriess form upon the dimolecular condition.

Amer. Chem. Jour., Aug., 1903, p. 111.

dimorphism, n. 6. In petrog., modifications produced within the magma of an igneous dinero, n. 2. A Spanish coin, the denier. rock by mineralizing or crystallizing agents before its solidification. Delesse, 1858.

dimorphobiotic (di-môr'fō-bi-ot'ik), a. [Gr. di-, two-, + μορφή, form, + βίωσις (βίωτ-), way of life, + -ie.] Exhibiting alternation of generations and having a parasitic and a non-parasitic stage in the course of the complete life-history. Jour. Exper. Med., VI. 79.

Dimorphoceratidæ (di-môr'fō-se-rat'i-dō).

In trans. To assail or pester with a continual succession of complaints, requests, taunts, gibes. or the like. See dino² n. t.

parasitic stage in the course of the complete life-history. Jour. Exper. Med., VI. 79.

Dimorphoceratidæ (dī-mòr'fō-se-rat'i-dē), n. pl. [NL., < Dimorphoceras (-cerat-) + -idæ.]

A family of Carboniferous ammonoid cephalopods or goniatites with discoidal shells and digitate lobes.

In chem., a salt which con- P_2O_6 , resulting from the combining units of the aphosphate: as, potassium $2P_2O_6$.

In them., a salt which condimple, n.—Capillary dimple, a slight depression in a liquid surface; specifically, that made by bringing the viory or glass zero-point of a barometer or manometer into contact with the mercury in the tube or cistern. The point has its proper position when the capillary dimple is barely visible.

and an internal coat of longitudinal muscles. It includes the anoplous forms belonging to Dingle beds. See *bed1. the orders Protonemertini, Mesonemertini, and dingle-bird (ding'gl-berd), n. Same as bell-Metanemertini. Contrasted with *Trimyaria. bird, 2.

 $(OCH_3)_2$, obtained by the oxidation of a mixture **dimyaric** (dim-i- \bar{a} 'rik), a. [Dimyaria + -ic.] of ethyl and methyl alcohol. It is an esthetic. Having the character of the Dimyaria, that **limethylamine** (dī-meth-il-am'in), n. A is, having two muscle-layers: as, dimyaric némertines.

nemertines.

Dimylidas (dī-mil'i-dē), n. pl. [NL., < Dimylus, the type genus, + -idæ.] A family of small insectivorous mammals comprising extinct species from the Tertiary of Europe. Schloser, 1887.

din² (dēn), n.; pl. dinim (dē'nēm). [Heb.]
1. (a) A judgment. (b) A law suit; a plea or cause. (c) A law or precept. There are four rabbinical codes containing all the dinim (precepts), ecclesisatical and secular, by which every dayan, or judge, is guided.

stant. Diluvian epoch, a subdivision of geologic time following the culmination of the glacial epoch and embracing the retreat and melting of the great ice-sheet with the attendant floods. diluvium, n.—Alpine diluvium, the loose material from an alpine glacier rearranged by water. dim. An abbreviation (b) of diminutive; (c) of the Latin dimidius, one half. dimagnesic (di-mag-nē'sik), a. [di-2+mag-dimagnesic (di-mag-nē'sik), a. [di-2+mag-dimagn

is the lowest member of this formation, and below the Tirolian.

Dinaric (di-nar'ik), a. [Dinara, a mountain in Dalmatia, + -ic.] Noting a region of the Alps.—Dinaric race, a European type, found along the coast of the northern Adriatic sea, characterized by being tall, very short-headed, with long dark wavy hair, delicate, straight, or aquilline nose, and slightly tawny skin.

Dinaritidæ (din-a-rit'i-dē), n. pl. [NL., < Dinarites (\lambda Dinara: see *Dinarian) + -idæ.]

A genus of Triassic ammonoid cephalopods, allied to Ceratices, but having fewer and sim-

A genus of Triassic ammonoid cephalopods, allied to Ceratites, but having fewer and simpler lobes. See Ceratites, 1.

dinder (din'der), n. [A dial form of *dinner, AS. dinor (OF. denier), \langle L. denarius: see denier², dinar, denarius.] A local name in some parts of England, particularly in Shropshire, for one of the small coins, called denarii by the Romans, frequently found on the sites of old Roman settlements. [Prov. Eng.]

Dinematichthys (di-nem-a-tik'this), n. [NL., \langle Gr. $\delta\iota$ -, two-, + $\nu\eta\mu$ a(τ -), thread, + $i\chi\theta i\varsigma$, fish.] A genus of small fishes of the family Brotulidæ, inhabiting the coral reefs.

A genus of small issues of the family Brotulidæ, inhabiting the coral reefs.

dinergate (di-fler'gāt), n. [Gr. δεινός, terrible (large) + ἐργάτης, a worker.] A general term for a worker major, or 'soldier,' among species of ants with polymorphic workers.

dinerillo (dē-nā-rēl'yō), n. [Sp., dim. of dinero, penny.] A small copper coin of Philip III. and Philip IV. of Spain, and of Louis XIII. and Louis XIV. of France, struck for Valencia in the seventeenth century.

tinual succession of complaints, requests, taunts, gibes, or the like. See ding², v. t. dinge (dinj), v. t. [Also dindge (obs.): a var. of ding, v. Cf. sing and singe.] To dent, or make a depression or hollow on the surface of,

as by a knock or blow; dint; bash: as, a dinged silk hat. [Prov. Eng.]
dinge (dinj'), n. [Also dindge (obs.), < dinge,
v.] A dent or depression made by a blow; a

radical PO₃ of a metaphosphate: as, potassium dimetaphosphate, K₂P₃O₆.

dimethyl (di-meth'il), n. [di-2 + methyl.]

1. Same as *ethane.—2. A combining form used in organic chemistry to indicate the pressum of the contact with the mercury in the tube or cistern. The point has its proper position when the capillary dimple is a hat full of dinges. [Prov. Eng.]

Dimyaria, n. pl. 2. A group or branch of dingle¹, n., 2. (b) The roofed-over space between the kitchen and the sleeping-quarters consists of an external coat of circular muscles in a logging-camp, commonly used as a store-

dinic (din'ik), a. and n. I. a. Same as dinical.

II. n. A medicinal remedy for giddiness.

Dinichthys (dī-nik'this), n. [Gr. δεινός, terrible, + iχθις, a fish.] A genus of gigantic arthrodisis comprised of one large median occipital is comprised of one large median occipital is comprised of one large median occipital plates, and three pairs of lateral and two pairs of anterior plates, the trunk also being plated. The dental plates are movable, without teeth, but both the maxillis are sharpened to a cutting edge which may be cuspidate. The species are characteristic of the Devolnan black shales in Ohio and New York, and European species are also known. Head-shields have been found in Ohio which measure nearly 4 feet in length.

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Diotocardia

Diotocardia

Diotocardia

Diopocardia

dinomania (din'ō-mā'ni-ā), n. [NL., < Gr. diociooplygamous (dī-ē-shiō-di-môr'fus), a. Same as *diociodimorphous (dī-ē-shiō-di-môr'fus), a. Oiropolygamous (dī-ē'shiō-pō-lig'a-mus), a. In bot., diociously polygamous, that is, have of serranoid fishes found on the coasts of Baludister and Sind. Only one species, D. petersii, is known.

Dinophilus (dī-nō-lē'ā), n. [NL., < Gr. diocioplygamous (dī-ē'shiō-di-môr'fus), a. Giociopolygamous (dī-ē'shiō-pō-lig'a-mus), a. The bot., diociously polygamous, that is, have of serranoid fishes found on the coasts of Baludister and Sind. Only one species, D. petersii, is known.

Dinophilus (dī-nō-lē'ā), n. pl. [NL., < Gr. diociopolygamous (dī-ē'shiō-pō-lig'a-mus), a. The bot., diociously polygamous, that is, have oir polygamous (dī-ē'shiō-pō-lig'a-mus), a. The bot., diociously polygamous, that is, have oir polygamous (dī-ē'shiō-pō-lig'a-mus), a. The bot., diociously polygamous, that is, have oir polygamous (dī-ē'shiō-pō-lig'a-mus), a. The bot., diociously polygamous, that is, have oir polygamous (dī-ē'shiō-pō-lig'a-mus), a. The bot., diociously polygamous, that is, have oir polygamous (dī-ē'shiō-pō-lig'a-mus), a. The bot., diociously polygamous, that is, have oir polygamous (dī-ē'shiō-pō-lig'a-mus),

Diniferida (din-i-fer'i-dā), n. pl. [NL., < Gr. divos, a whirl, + L. ferre, bear, +.-ida.] An order of Dinoflagellidia having two transverse furrows. It includes the families Peridinidæ

dining-car (di'ning-kar), n. A railway-car fitted up as a dining-room or restaurant, and supplied with a kitchen, pantry, refrigerator,

dining-coach (dī'ning-kōch), n, Same as *din-

dining-hall (di'ning-hal), n. A large diningroom, as in a hotel or college.

room, as in a hotel or college.

dining-table (di'ning-table, n. The table in a dining-room, dining-hall, or saloon on shipboard, round which people gather to dine; a dinner-table.

Interview (di-nôr'ni-thin), a. [NL. dinor-nis (-ornith-) + -ine².] Pertaining to or having the characters of the extinct genus Dinornis and its allies. dinner-table.

dinner-table.

dinitrobenzene (dī-nī'trō-ben'zēn), n. [di-²
+ nitro(gen) + benzene.] A compound, C₆H₄
(NO₂)₂, derived from benzene by the substitution of two nitro-groups for two hydrogen
atoms. Orthodinitrobenzene is formed in small quantity
when a mixture of sulphuric and nitric acids acts on benzene. Its crystals melt a: 117.9° C. Metadinitrobenzene
is the chief product obtained from the action of a mixture
of sulphuric and nitric acids on benzene. Its yellow crystals melt at 91° C. At the same time a little paradinitrobenzene is formed. Its crystals melt at 171-172° C.
dinkel (ding'kel), n. [G.] The one-grained

dinkel (ding'kel), n. [G.] The one-grained wheat, Triticum monococcum. See wheat. Also called einkorn.

called einkorn.

dinky (ding'ki), a. and n. [Also dinkey; a prov. word of imitative nature, in effect a var. of dicky, as applied to small things.] I. a. 1. Small and neat; trim; tidy; nice. [Prov.]—2. Small but pretentious; small and insignificant. [Prov.]

II. n.; pl. dinkies (-kiz). 1. Something small or insignificant. [Colloq.]—2. An apparatus of smaller size than the usual standard, as a pony- or donkey-engine for doing work which requires small horse-power.—3. A pair of wheels on an axle used to carry the weight of a beam or pole in erecting structures or wire lines. The axle is usually curved upward in the middle, with a lever affixed, so that the weight can first be raised off the ground, in a sling, and then wheeled to the ground, in a sling, and then wheeled to the desired point.

desired point.

dinner-pad (din'er-pad), n. A pad placed over the region of the stomach during the application of a plaster-of-Paris or other jacket. After the jacket has hardened the pad is removed, thus allowing room for distention of the stomach when it receives food.

dinner-pail (din'er-pal), n. A tin pail, with a cover, in which working-men carry, or are supposed to carry, their 'dinner' or midday meal to their work. "A full dinner-pail" for the working-man figures in party rhetoric. [U. S.]

dinner-pair (din'er-par), n. In parliamentary usage, a pair formed by two members of opposite parties during the dinner-hour, the vote

as, a dinner-set of Limoges ware.

Dinobolus (dī-nob'ō-lus), n. [Gr. δεινός, terrible, + ὁβολός, an obol.] A genus of atrematous Brachiopoda, of the family Trimerellidæ, having thick-shelled subcircular valves with interior muscular platforms slightly excavated for the viscera. They are of Silurian age.

dinoceratous (dī-nō-ser'a-tus), a. Belonging or related to the *Dinocerata*, a group of fossil perissodactyl mammals.

The body is composed of from 5 to 8 segments, and bears a head or prostomium and a short ventral tail. The surface of the body bears cliis distributed uniformly or in rings. The genus Dinophilus is sometimes regarded as belonging to the Archiannelida.

belonging to the Archiannelida.

Dinophis (din 'ō̄-fis), n. [Gr. δεινός, terrible, + δφις, a serpent.] A fossil marine serpent, from the North American Eocene, which attained a length of 30 feet: probably synonymous with Palæophis.

dinopid (din 'ō̄-pid), n. and a. I. n. A member of the family Dinopidæ.

II. a. Having the characteristics of or belonging to the family Dinopidæ.

dinornithid (di-nôr'ni-thid), n. One of the Dinornithidæ.

dinornithine (di-nôr'ni-thin), a. [NL. dinornithine]

dinornithoid (dī-nôr'ni-thoid), a. Allied to or resembling Dinornis or the Dinornithidæ. dinos (di'nos), n.; pl. deinoi (-noi). [Gr. divoc, deivoc, a name of various round vessels.] In Gr. antiq., a large bowl without a foot.

dinosaur, n.—Chambered dinosaur, the extinct reptile Camarosaurus: so named from the cavities in its vertebre.—Duck-billed dinosaur, the dinosaurian reptile Trachodon or Hadrosaurus, characterized by the broad, beak-like anout on the skull.



Duck-billed Dinosaur (Hadrosaurus mirabilis). After a restoration by Knight.

dinotherioid (din-ō-thē'ri-oid), a. and n. I. a. Related to or having the characters of the extinct ungulate Dinotherium.

II. n. An ungulate mammal related to Dinotherium

Dinotherium sand. See *sand¹. diobely (di-ob'e-li), n. [Gr. διωβελία, < δι-, two-, + ὁβολός, obol.] In Gr. antiq., an allowance of two obols a day to each citizen presented. ent during the Athenian festivals, to pay for seats in the theater.

diodophyte (di-od'ō-fit), n. [Gr. δίοδος, a passage, + φυτόν, plant.] A plant which produces diodes; any vascular plant. Van Tieghem. diocdodimorphic (di-ē-shiō-di-mōr'fik), a. In bot., same as heterogonous, which see.

cessive periods of sexual desire.—Diastrous cycle, the first of two successive periods of sexual desire, plus a brief interval of rest (diastrum). diastrum (di-6s'trum), n; pl. diæstra. [NL.: see *diæstrous.] A brief interval (from 6 to

14 days) between two periods of sexual desire in animals.

Diogenodonta (dī-oj'e-nō-don'tā), n. pl. [NL., Gr. doyevḥs, sprung from Zeus, + òdois, (odovr-), a tooth.] A group of advanced and modern pelecypod mollusks in which the hinge has lateral and cardinal teeth on a true hinge-

modern pelecypod mollusks in which the hinge has lateral and cardinal teeth on a true hingeplate, the former not exceeding two and the latter three in number.

dionine (di'ō-nin), n. A trade-name of ethyl morphine hydrochlorid. It is employed as an ocular anesthetic in place of cocaine.

Dionysian, a. 4. Of or pertaining to (a) Dionysius the Areopagite, mentioned in Acts xvii. 34, who is said to have been made bishop of Athens in the year 50 by the Apostle Paul; or (b) a pseudo-Dionysius who, about 360-450 A. D., wrote several ecclesiastical works attributed by some to the Areopagite.

Dionysic (di-ō-nis'ik), a. Same as Dionysiac.

Diopsidæ (di-ō-nis'ik), a. Same as Dionysiac.

Diopsidæ (di-ō-pisi-dē), n. pl. [NL., < Diopsis + -idæ.] A family of acalyptrate Diptera of which Diopsis is the type. They are small black files, rather stout, with stout front thighs and the head much widened. They are found in shady wooded places dioptometry (di-op-tom'e-tri), n. [Gr. δiā, through, + δπτ(κος), of seeing, + -μετρία, < μέτρον, measure.] Measurement of the power of accommodation and of the refraction of the of accommodation and of the refraction of the

eye. dioptric. I. a.—Dioptric curve. Same as Cartesian oval.—Dioptric globe. See *holophane.—Dioptric micrometer. See *micrometer.

II. n.—Prism dioptric, a unit of the deflecting power of prisms; a deflecting power equivalent to that of a prism which displaces the transmitted ray through an angle subtended by one centimeter at a distance of one meter: used chiefly by oculists.

dioscorine (di-os'ko-rin), n. [Dioscorea + -ine².] A greenish-yellow, crystalline, very poisonous bitter alkaloid, C₁₃H₁₉O₂N, contained in Java gadung, Dioscorea hirsuta. It melts at 43.5° C., and acts on the central nervous system like picrotoxin, but is less energetic.

diose (di'os), n. [di-2 + -ose.] Same as *biose.

The first volume deals with the monosaccharides, the chief subheads being: dioses, trioses, tetroses and methyl derivatives.

Jour. Phys. Chem., Oct., 1904, p. 509.

diosmin (dī-os'min), n. [Gr. δι-, two-, + δομή, odor, +-in².] Same as *barosmin.
diosphenol (dī-ō-sfē'nōl), n. [dios(min) + phenol.] A crystalline phenol-like body, C₁₀H₁₈ O₂, found in buchu-oil from Parapetalifera betulina (Barosma betulina of Bartling and Wendland). It melts at 82° C. Also called Rarosma camphor and Ruchu camphor

Wendland). It melts at 82° C. Also called Barosma camphor, and Buchu camphor.

Diospyracese (di-os-pi-rā'sō-ō), n. pl. [NL. (Drude, 1879), < Diospyros + -aces.] A family of dicotyledonous sympetalous plants of the order Diospyrales, the ebony family: long known by the name Ebonacese (which see). It is typifed by the genus Diospyros, and includes 7 genera and about 318 species, by far the larger number of which belong to Diospyros. See Diospyros, Maba, and Royena.

usage, a pair formed by two members of opposite parties during the dinner-hour, the vote of the one balancing the vote of the other in case of a division while both are absent, that is, from 7 to 10 p. m. [Eng.]

dinner-party (din 'er-par'ti), n. A party of guests invited to dinner and for social intercourse or entertainment.

dinner-ring (din 'er-ring), n. Same as *banquet-ring.

dinner-set (din'er-set), n. A set of dishes of the same pattern for use on the dinner-table: as, a dinner-set of Limoges ware.

Dinobolus (di-nob'ō-lus), n. [Gr. devoc, terrible, + \delta \del

similar to the amphors.

diotic (dī-ot'ik), a. [Gr. δίωτος, two-eared, < δι-, two-, + οὐς (ώτ-), ear, + -ic.] Involving the use of both ears in the perception of a single tone or clang: opposed to *dichotic.

Diotocardia (dī'ō-tō-kār'di-ā), n. pl. [NL., < Gr. δίωτος, two-eared, + καρδία, heart.] A division of the gastropod Mollusca based on the presence of two auricles in the heart: contrasted with *Monotocardia.

dioxine (di-ok'sin), n. $[di-2 + ox(ygen) + -ine^2]$ Same as *gambine B.

dioxogen (di-ok'sō-jen), n. A trade-name for a 3-per-cent. solution of hydrogen peroxid in water.

dioxybenzol (dī-ok-si-ben'zōl), n. oxy(gen) + benzol.] A diatomic phenol which results from benzene on the substitution of two hydroxyl groups for two hydrogen atoms, for example, pyrocatechin, resorcin, and hydroquinone.

dioxytartaric (dī-ok'si-tär-tar'ik), a. oxy(gen) + tartaric.] Same as *dihydroxytartaric.-Dioxytartaric acid. Same as *dihydroxy-

tartaric acid.
dip, v. I. trans. 8. To submerge (an animal, as sheep, except the head) in a warm decoction of sulphur, tobacco, or the like, for the destruction of injurious parasites and germs of skin-diseases.

II. intrans. 4. In the manufacture of tur-

pentine, to gather resin from boxes or cups.

U.S.]

 (c) In ceram., a preparation of colored slip rating pottery. See *dip-ware. dip, n., 5.for decorating pottery. See *dip-ware.
7. A small dumpling made of batter dropped

into boiling water a spoonful at a time and boiled for about five minutes. Usually in the plural. [Australia.]—8. Vertical distance boiled for about five minutes. Usually in the plural. [Australia.]—8. Vertical distance below a given level.—9. A depression or sink on the surface of the earth.—10. Crude turpentine. [U.S.]—11. Among stock-breeders, 'tinge' or 'touch,' that is, a slight strain, of another breed or variety.—12. The depth to which anything is submerged, as a floating veswhich shything is subherged, as a nosting ves-sel, the floats or buckets of a paddle-wheel, etc.

— Unconformability of dip, in geol., the lack of cor-respondence in the dip of strata produced when a later series of sediments is deposited upon the upturned edges of an older and tilted series.

dipa (dē-pā'), n. [Tagalog dipd = Bisaya dopd.] In the Philippine Islands, a measure of length; a fathom.

dipartite (di-par'tit), a. [L. di-, apart, + partitus, parted.] Divided into various parts: dipartite (di-par'tit), a.

as, dipartite writings. Ruskin.
dipartition (di-pär-tish'on), n. [dipartite +
-ion.] Sundering; division: as, the dipartition of the sheep from the goats on the judgment-

day.

dipentene (dī-pen'tēn), n. [di-2 + Gr. πέντε, five, + -ene.] A terpene, C₁₀H₁₆, found in a great variety of volatile oils: it boils at 181° C. and is optically inactive. According to its origin, it has been called by a great variety of names.

dipeptide (dī-pep'tid), n. [di-2 + pept(ic) + -ide¹.] A condensation-product of the anhydrids of two amido-acids which are derived from the alluminous molecule. See *dinestine. from the albuminous molecule. See *digestion roducts.

dip-fault (dip'falt), n. ata which runs in the direction of their dip

and across their strike.

Small dip-faults were seen in the sea-cliff. Greater dip-faults of considerable but unknown throw cut off the entire series along the axis of the "tickle" and again at a point about 370 meters to the southeast of the headland at the sea-chasm.

Amer. Geol., Aug., 1903, p. 68.

dip-glaze (dip'glaz), n. In ceram., a liquid glaze preparation into which the biscuit ware is dipped. Compare *vapor-glaze.

glaze preparation into which the biscuit ware is dipped. Compare *vapor-glaze.
diphase (di'fāz), a. [Gr. δι-, two-, + φάσις, phase.] In elect., same as *quarterphase.
diphasic (dī-fā'zik), a. [Gr. δι-, two-, + φάσις, phase, + -ic.] Having two phases. Buck, Med. Handbook, III. 105.

diphenol (dī-fē'nol), n. [di-2 + phenol.] One of several isomeric compounds. The most important is the diorthoderivative HoCeH4CeH4OH(2:2), prepared by heating fluorin with potassium hydroxid at 400° C. It forms crystals melting at 28° C.

It forms crystals melting at 98° C. diphenyl (di-fē'nil), n. [di-2+phenyl.] A color-less compound, $C_6H_5C_6H_5$, found in coal-tar, and prepared by passing benzene vapor through a red-hot tube. It is volatile with steam, crystallizes in large lustrous monoclinic plates, melts at 70.5° C., and boils at 254° C. Also called biphenyl.—Diphenyl blue, brown, etc. See $\star blue$, $\star brown$, etc.

Diphenylamine-orange. See orange1.

diphenylethanolone (dī-fē"nil-eth-an'ō-lōn),
n. Same as *benzoin, 3.

diphenylimide (di-fē-ni-i'mid), n. [diphenyl + imide.] A colorless crystalline substance, (C₆H₅)₂-NH, formed when diphenylamine vapors are conducted through a tube heated to redness. It also occurs in crude anthra-

diphenylketone (di-fē-nil-kē'tōn), n. [di-2 +phenyl + ketone.] Same as *benzofhenone. diphosphate (di-fos'fāt), n. [di-2 + phosph(o-

rus) + -ate1.] In chem., a compound containing two combining units of the radical of ing two combining units of the radical of phosphoric acid. The name has been incorrectly applied to a phosphate containing two atoms or combining units of a metal united to this radical, as diphosphate of soda instead of disodic phosphate.

Diphragmida (di-frag mi-dk), n. pl. [NL., ⟨Gr. δι-, double, + φράγμα, a partition.] In Hyatt's classification of the Cephalopoda, a superintegration of the Cephalopoda, and the containing two containing two containing two atoms and the containing two atoms are contained to the containing two atoms and the containing two atoms are combining units of a metal units of the containing two atoms or combining two atoms or combining

group of primitive Lower Silurian nautiloids in which the siphuncle is divided by transverse tabulæ alternating with the septa of the

Diphragmoceras (di-frag-mos'e-ras), n. [Gr. δc , double, $+\phi \rho \dot{\alpha} \gamma \mu a$, a partition, $+\kappa \epsilon \rho a c$, a horn.] The typical and only genus of the

cephalopod group Diphragmida.

diphrophoros (dī-frof'ō-ros), n.; pl. diphrophoroi (-roi). [Gr. διφροφόρος, < δίφρος, a seat, stool, + -φορος, < φέρειν, bear.] In Gr. antiq., a stool-carrier: especially applied to two figures in the center of the frieze on the eastern side

chaelis.

diphtheria, n. Diphtheria is caused by a specific bacillus, called Bacillus diphtheria, or the Klebs-Loeffer bacillus, which usually can readily be detected in the exudate by microscopical methods. The search for this organism has become a routine measure in doubtful cases of inflammation of the upper air-passages, and often a positive diagnosis of such conditions can be made only in this way. The disease begins with swelling and redness of the throat, fever, and loss of strength. The false membrane appears early and may be confined to the tonsils or may spread to the mucous membrane of the nose, pharynx, or larynx. When the larynx is involved, the breathing becomes difficult, and suffocation may ensue. Formerly the only means of saving life in this complication was tracheotomy, but this has been almost entirely superseded by intubation. The disease may be followed by paralysis, by weakness of the heart, or by disease of the kidneys. Treatment, both curative and preventive, consists in the subcutaneous injection of diphtheria antitoxin—one of the earliest instances, and still the most effective instance, of serum therapy. See cut under Klebs-Loeffer *bacillus.— Diphtheria bacillus. See *bacillus, with cut.

*bacellus, with cut.
diphtherial (dif- or dip-thē'ri-al), a. [diphtheria + -al¹.] Same as diphtheritic. Med.
Record, Feb. 28, 1903, p. 350.
diphtheric (dif- or dip-ther'ik), a. [diphtheria

Same as diphtheritic.

Diphtheritic croup, paralysis. See *croup1, aralusis diphtheroidal (dif - or dip-thē-roi'dal), a.

diphtheroidal (dif - or dip-the-roi dai), d. Same as diphtheroid.
diphtherotoxin (dif-the-ro-tok-sin), n. Toxin elaborated by the bacillus of diphtheria.
diphthong (dif' - or dip'thong), v. t. To sound

as a diphthong; diphthongize.

Isolative diphthonging or 'vowel-clearing' mainly affects long vowels, evidently because of the difficulty of prolonging the same position without change.

H. Sweet, Eng. Sounds, \$ 63.

A fault in inclined diphthongia (dif-thong'gi-s), n. [NL., & Gr. diphthong.]

A condition in which, owing to partial paralysis of the larynx, two sounds of different pitch are produced simultaneously.

diphthongous (dif'thông-gus), a. Same as

diphthongal. Diphya limestone. See *limestone.

diphygenic (dif-i-jen'ik), a. [Gr. διφνής, of double form, + -γενης, -producing.] In embryol., producing two different embryos: said of the

producing two different emoryos: said of the Dicyemidæ: opposed to *monogenic. diphyletic (di-fi-let'ik), a. [Gr. δι., two-, + φίλον, tribe.] In zoöl., having two sets of ancestors; derived from two distinct groups of animals.

The diphyletic origin of the birds as represented by the Ratites and Carinates is regarded as an untenable assumption by Fürbringer, who argues for the racial unity of the whole group.

Amer. Nat., Jan., 1903, p. 74.

Diphyletic arrangement, a system of classification in which the divisions are arranged in accordance with the view that a given group of animals has been derived from

diphyletically (dī-fī-let'i-kal-i), adv. In a iphyletic manner.

Diphyllidea, n. pl. 2. An order of tetrabothridiate Cestoidea. They have a scolex with a long head-stalk armed with several longitudinal rows of hooklets, the head consisting of a retractile armed rostellum and 4 (apparently only 2) phyllidia, with projecting, slightly mobile margins. The order contains but one family, the Echinobothridea, and one genus, Echinobothrium persettic in selections. parasitic in selachians.

diphyodontism (dif-i-o-don'tizm), n. [diphyodont + -ism.] The state or condition of being diphyodont or having two sets of teeth, as is

the case with the majority of mammals.

Diphyphyllum (dif-i-fil'um), n. [NL., irreg. ζ Gr. διφνής, double, + φίλλον, a leaf.] A genus of Paleozoic tetracorals of the family Cya-

thophyllidæ. They grew in compound stocks, the individual corallites having no columella and not being connected with each other except by the epithecal wall.

dip-joint (dip'joint), n. A joint in inclined strata which runs in the direction of the dip.

Geikie, Text-book of Geol., p. 660. dipl. An abbreviation (a) of diplomat; (b) of

diplomatist.

diplacanthid (dip-la-kan'thid), n. One of the Inplacanthidse.

diplacusis (dip-la-kū'sis), n. [NL., < Gr. διπλόος, double, + ἀκουσις, hearing, < ἀκούειν. hear.] In psychol. acoustics, double hearing: applied usually to the hearing of the tone in a different pitch by the two ears (diplacusis binauralis), but also to the arousing of two tonal sensations in the same ear by a single stimulus.

The abnormality (diplacusis) may be restricted to a single ear, may be transitory or chronic, and may be confined to definite parts of the tonal scale or coextensive with it.

O. Külpe (trans.), Outlines of Psychol., p. 299.

in the center of the frieze on the eastern side of the Parthenon at Athens, 31 and 32 Michaelis.

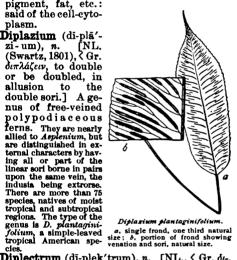
Dipladenia (dip-la-dē'ni-ā), n. [NL. (Alphonse de Candolle, 1841), ⟨Gr. διπλόος, double, + diphtheria, n. Diphtheria is caused by a specific bacillus, called Bacillus diphtheria, or the Klebs-Loef nectar-glands which alternate with the two ovaries.] 1. A genus of plants of the family Ovaries.] 1. A genus of plants of the family Apocynaces. They are shrubs, chiefly twining, all South American, and mostly from Brazil. Several of the 20 species are in cultivation in glass houses, where they are prized for their shows, mostly rose-colored or purple funnel-form flowers. Dipladenia atropurpurea, D. Boliviensis, D. urophylla, and D. splendens are the prominent species. Other species are in cultivation, and all the kinds are prized for their very brilliant floral display, and for their attractive habit.

diplanar (di-pla'när), a. [Gr. di-, two-, + L. planus, plane, +-ar.] Pertaining to or of two nlanes.

diplarthry (dip-lär thri), n. [Gr. διπλόος, double, + ἀρφρον, joint.] Having the bones of the tarsus and carpus arranged in a more or less alternating manner: contrasted with

diplasmatic (di-plaz-mat'ik), a. [Gr. $\delta\iota$ -, two-, $+\pi\lambda\delta\sigma\mu a$, anything formed.] In cytol., containing substances besides protoplasm, such as pigment, fat, etc.: said of the cell-cyto-

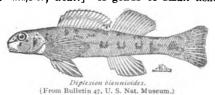
plasm. Diplazium (di-pla'zi-um), n. [NL. (Swartz, 1801), Gr. διπλάζειν, to double or be doubled, in allusion to the allusion to the double sori.] A genus of free-veined polypodiaceous



Diplectrum (dī-plek'trum), n. [NL., < Gr. δι-, two-, + πλῆκτρον, a spur: see plectrum.]



genus of small sea-bass, distinguished by the armature of the preopercle. D. formosum is the commonest of the species, all of which are



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of the Mississippi valley, living in clear brooks. D. blennioides, the green-sided darter, is the common species.

common species.

dipleurogenesis (dī-plū-rō-jen'ē-sis), n. [Gr. δī-, two-, + πλευρά, side, + γένεοις, genesis.]

1. Historical progress or evolution through the acquisition and elaboration of bilateral symmetry. [Rare.]—2. The two-sided, bilateral, or dimeric type of form assumed by the higher members of the animal creation: discountered to the symmetry.

higher members of the animal creation: distinguished from centrogenesis. L. H. Bailey. dipleurula (di-plū'rū-lā), n.; pl. dipleurulæ (-lē). [NL., < Gr. δι-, two-, + πλευρά, side, + L. dim.-ula.] A hypothetical ciliate, swimming, bilateral ancestor of the echinoderms, which is supposed to be recapitulated in the swimming larvæ of modern echinoderms. See *pel-waterie theory.

matozoic theory.

diplobacillus (dip '1ō-ba-sil'us), n.; pl. diplobacillis (-i). [NL., < Gr. διπλόος, double, + NL. bacillus.] Any bacillus in which the cells occur in pairs.

The occurrence of acid-resisting diplococci or diplobacilli and of drumstick forms has been already referred to. D. M. Courie, in Jour. Exper. Med., Oct. 25, 1900, p. 213.

diplocaulescent (dip'lō-kâ-les'ent), a. [Gr. daxλόα, double, + E. caulescent.] In bot., having stems or axes of the second order. diplocephalous (dip-lō-sef'a-lus), a. In teratol., double-headed: a term applied to montantant archemics.

strous embryos.

strous embryos.

diplocephalus (dip-lō-sef'a-lus), n.; pl. diplocephali (-lī). [NL., < Gr. διπλόος, double, + κεφαλή, head.] A two-headed monster.

diplocephaly (dip-lō-sef'a-li), n. [NL. "diplocephalia, < diplocephalus.] Monstrosity in which two heads are attached to the same body.

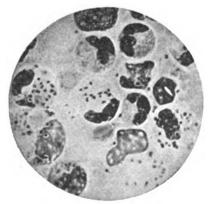
diplochlamydeous (dip "lō-kla-mid'ō-us), a.

[Gr. διπλόος, double, + χλαμός (χλαμό), mantle.] In bot., having two floral envelops, calyx and corolla, or a double perianth, as many monocotyledons.

diplochoanitic (dip'lō-kō-a-nit'ik), a. [Gr. διπλόος, double, + χόανος, a funnel, + -it-ic.] In the siphuncles of the ammonoid Cephalopoda, having both funnels and forwardly directed collars where the siphuncle penetrates the septum: contrasted with *monochoanitic. choanitic.

diplococcal (dip-lō-kok'al), a. Produced by or pertaining to diplococci. Med. Record, June 27, 1903, p. 1047.
diplococcic (dip-lō-kok'sik), a. Same as *diplococcal. Buck, Med. Handbook, IV. 398.

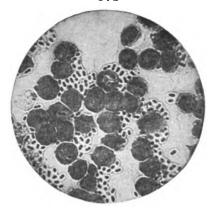
diplococcus, n. 2. [cap.] A generic name erroneously applied by some writers to certain species of micrococcus in which the cells occur in pairs.—Diplococcus intracellularis meningiti-dis, the pathogenic micro-organism of epidemic cere-



recus intracellularis meningitidis (Meningococcus) The large bodies are disintegrating pus cells. Magnified 1,000 times. (From Buck's "Reference Handbook of the Medical Sciences.")

brospinal meningitis. Also called Weichselbaum's micro-coccus and meningococcus.—Diplococcus pneumonis, the pathogenic micro-organism of scute croupous pneumonia. Also called micrococcus lanceolatus, pneumococcus and Fraenkel's pneumococcus. See cut in middle cus, and Fraenkel's pneumococcus.

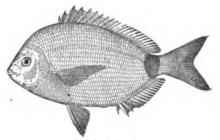
diploconical (dip-lō-kon'i-kal), a. [Gr. διπλόος, double, + κωνικός, conic. + -all.] Doubly conical; in the form of a double cone.



Diplococcus pneumoniæ in blood. lies are red blood corpuscles. Magnified 1,000 times. (From Buck's "Reference Handbook of the Medical Sciences.")

The occurrence bacilli and of drumstick forms has been a back form been a back of two more of t breaking through at maturity. The name refers to the spores, which are two-celled and dark-colored. About 450 species have been described, many of which are imper-fectly known. They are mostly saprophytic on woody plants.

Diplodontidæ (dip-lō-don'ti-dē), n. pl. [NL., \ Diplodus (-odont-) + -idæ.] A family of teleodesmaceous Pelecupoda including thinshelled orbicular and convex genera with small



(From Bulletin 47, U. S. Nat. Museum.)

color, with black spots on the tail. Several species occur in the Mediterranean. *D. holbrookii* occurs on the Atlantic coast of the United States: known in Spanish and Portuguese as Saroo.

diplogenesis, n. 2. In biol., the process by which a change in the environment which produces a change in an organism produces a similar change in the germ-cells that are contained in its body, so that descendants in later genera-tions are born with an inherited adaptation for meeting and responding to this specific change in the environment. *Cope*.

[To] suppose that a modification of either the male or the female parent affects potential variation in the spermatozon or the ovum, is merely to restate, in other words, that a change of environment which affects the parent likewise affects the generative products; and such a statement is nothing more or less than Cope's theory of Diplogenesis.

Natural Science, Nov., 1896, p. 288.

diplogenetic (dip'lō-jē-net'ik), a. 1. Relating to diplogenesis.—2. Same as diplogenic.

Diploglossa (dip-lō-glos'ä), n. pl. [Gr. $\delta\iota\pi\lambda\delta\omega$, double, $+\gamma\lambda\bar{\omega}\sigma\sigma a$, tongue. The tongue is not forked, but the anterior portion can be withdrawn into the posterior, like the parts of a telescope.] A superfamily of Lacertilia, continuous contraction of the cont drawn into the posterior, and the telescope.] A superfamily of Lacertilia, containing the glass-snakes, Anguidæ, and related forms: correlated with Pachyglossa and Leptoglossa. Cope, 1864.

diploglossate (dip-lō-glos'āt), a. Having the anterior portion of the tongue retractile within the posterior part, like a two-jointed telescope

diplographic (dip-lo-graf'ik), a. [diplograph-y+-ic.] Of or pertaining to 'double-writing,' or to the diplograph, the machine by which it is produced.

diplographical (dip-lō-graf'i-kal), a. Same as *diplographic.

diplography (di-plog'ra-fi), n. [Gr. διπλόος, double, + -γραφία, ⟨γράφειν, write.] The art of writing double, or the use of the diplograph, the machine by which this is accomplished.

See diplograph.

diplohedral (dip-lō-hē'dral), a. [diplohedr-on + -al.] Of or pertaining to a diplohedron, or diploid.

diploid.

diplohedron (dip-lo-be'dron), n. [NL., < Gr. diplohedron (dip-lo-be'dron), n. [NL., < Gr. diploid, diploidal (dip'loi-dal), a. [diploid + -al¹.] 1.

Of or pertaining to a diploid.—2. Noting a class of symmetry, belonging to the isometric system, of which the diploid is the characteristic form. See *symmetry.

Diploma in public health, a certificate or diploma given to one who has passed an examination in public health. London University grants certificates in this department. Abbreviated D. P. H.

Abbreviated D. F. H.

diplomate (dip'lō-māt), n. [diplomate, v.] One who holds a diploma.

Diplomatic bureau. See *bureau.

diplomyelia (dip'lō-mī-ē'lī-ā), n. [NL., < Gr. διπλόος, double, + μυκλός, marrow (medulla).]

A condition in which the spinal cord is double, or is made to appear so by a deep fissure which separates it into two distinct halves.

diplonephridium (dip'lō-nō-frid'i-um), n.; pl. diplonephridia (-ā). [NL., < Gr. διπλόος, double, + NL. nephridium.] A nephridium in the formation of which both ectoderm and mesoderm have taken part, the peritoneal funnel becoming connected with an ingrowth of the ectoderm, as in *Polychæta* generally.

diploneural (dip-lo-nū'ral), a. [Gr. διπλόος, double, + νεύρον, sinew, nerve.] Having a double nerve-supply, each from a separate source: as, a diploneural muscle. Encyc. Brit., XXV. 395.

shelled orbicular and convex genera with small but well-defined hinge-teeth.

Diplodus (dip'lō-dus).n. [NL., ⟨Gr.διπλόος, double, + ἐκ. peristome + -ic.] In ble, + ὁδούς (ὁδοντ-), tooth.] A genus of sparoid mosses, having a double peristome.

diplophonia (dip-lō-fō'ni-s), n. [Gr. διπλόος, double, + φωνή, sound.] Same as *diphthongia. diplopia, n.—Crossed diplopia. In this form the image on the left side belongs to the right eye, and conversely: called also heteronymous diplopia.—Diplopia monophthalmics, double vision affecting one eye.—Direct diplopia, the form of double vision in which the image belongs to the eye of the same side. This occurs in convergent squint. Also called homonymous diplopia.—Heteronymous diplopia.

Heteronymous diplopia. Same as crossed *diplopia.

Heteronymous diplopia. (This occurs in convergent squint. Also called homonymous diplopia.—Heteronymous diplopia.

Heteronymous diplopia. (This occurs in convergent squint. Also called homonymous diplopia.—Heteronymous diplopia.)

diplopodic (dip-lō-pod'ik), a. [diplopod + -ic.] In entom., like a diplopod.
diplopore (dip'lō-pōr), n. [Gr. διπλόος, double, + πόρος, passage.] A term denoting the pairs of more or less vertical canals that pierce the thecal plates in the order Diploporita of the Palmutagag

diploporite (di-plop'ō-rīt), a. and n. I. a. Pertaining to, or having the characters of the order Diploporita.

II. n. A member of the Diploporita.

diplopterygous (dip-lop-ter'i-gus), a. Belonging to or resembling the Diplopteryga.

Diplosoma, n. 2. [l. c.] Same as *diplosome.
diplosome (dip'lō-sōm), n. [NL. diplosoma,
⟨Gr. διπλόος, double, + σῶμα, body.] In cytol.,
a double centrosome, or one that has divided into two daughter-centrosomes which have not yet moved apart to form the poles of a karvaki. yet moved apart to form the poles of a karyokinetic spindle.

nette spindle.

diplospire (dip'lō-spīr), n. [Gr. διπλόος, double, + σπείρα, a spire.] A double spiral, as the spiral brachial supports of some extinct Brachiopoda, in which the secondary spirals are formed by the production of the branches of the jugum between the lamellæ of the primary spiral accounts.

spiral cones. Diplospires occur in the genera Kayseria, Diplospirella, Thecospira, and some others.

Diplospondyli (dip-lō-spon'di-lī), n. pl. [NL., (Gr. διπλόος, double, + σπόνδυλος, vertebra.] A suborder of sharks including those forms in which the vertebral column is imperfectly segmented as that two vertebral bodies and two mented so that two vertebral bodies and two neural arches arise from each segment. It includes the group known as Notidanids, most of the species being now extinct. The best-known of the living species is the common shark Hexanchus griscus.



Hexanchus griseus (From Bulletin 47, U. S. Nat. Museu

diplospondylous (dip-lō-spon'di-lus), a. Of or pertaining to the suborder Diplospondyli. diplospondyly (dip-lō-spon'di-li), n. Same as

diplostichous (di-plos'ti-kus), a. [Gr. διπλόος, double, + στίχος, row.] Having a double layer of cells, separated by a membrane, beneath the lens of the central eyes, as in the king crab, Limulus. Contrasted with monostichous.

diplostreptococcus (dip'lō-strep-tō-kok'us), n.; pl. diplostreptococci (-si). [NL., ⟨ Gr. διπλόος, double, + NL. streptococcus.] A form of streptococcus in which the chains of cells occur

The Portuguese describe a diplo-streptococcus, which they state they have found constantly in the cerebro-spinal fluid at the post-mortem examination of their case.

Jour. Trop. Med., June 1, 1903, p. 167.

Diplostylus (dip-lo-stī'lus), n. [Gr. διπλόος,

double, + στύλος, a pillar.] A genus of amphipods of the Carboniferous period.

diplotegis (dip-lot'ē-jis), n. Same as diplotegia.

diplotegium (dip-lō-tē'ji-um), n. Same as

diplumbic (dī-plum'bik), a. [Gr. δι-, two-, + L. plumbum, lead.] Having two atoms of lead in the molecule.—Diplumbic arseniate, lead arseniate containing two atoms of lead in the molecule. It has been used as an insecticide.

Diporidium (di-pō-rid'i-um), n. [NL. (Wendland, 1825), $\langle \operatorname{Gr. \delta\iota}, \operatorname{two-}, +\pi\delta\rho\sigma_{\mathcal{O}}, \operatorname{pore}, +\dim$.

- $\iota\delta\iota\sigma\nu$. The name alludes to the two apical

and 1020), to the control of notice of nottery manufactured by Josiah notice. body of pottery manufactured by Josiah Wedgwood, in distinction from the solid jasper which was uniformly colored throughout its an hatance.

Dippel's animal oil. See *oil.

dipper, n. 11. In ceram., a workman wno ups ware in the glazing or coloring preparation: See *dipped. — 12. Any of the gastropod mol-

lusks of the genus Bulla.

dipping-machine (dip'ing-ma-shēn'), n. In candy-making, a machine for coating with chocolate the prepared caudies cast from the de-positing-machine by dipping wire-work trays filled with them in hot chocolate, removing the surplus, and hardening and drying. It makes finished chocolates that exactly resemble those dipped by hand. See *depositing-machine and *starch-buck.

dip-pump (dip'pump), n. A device for elevating water or other liquid by dipping it in any manner. Some dip-pumps consist of a pair of barrels for raising the water, one barrel being lowered as the other is hoisted.

Diprion (di-pri'on), n. [NL., \ Gr. δι-, two $+\pi\rho i\omega r$, a saw.] A name given by Barrande to graptolites with two rows of thece on the rhabdosome.

Diprionidæ (dip'ri-on'i-dē), n. pl. [NL., < Diprion + idæ.] A suborder of the graptolites comprising forms which have two to four vertical rows of thece placed back to back, as

vertical rows of thece placed back to back, as in the genera Diplograptus and Phyllograptus. dipropargyl (di-prō-pār'gil), n. A colorless, volatile, pungent liquid, CHICCH₂CH₂CiCH, prepared by the action of potassium hydroxid on diallyltetrabromide. It readily polymerizes and is a homologue of acetylene, which it resembles in general properties. It melts at -6°C, boils at 88-87°C, and is also called 1, 5-hexadiene.

is also called 1, b-nexadvens.

dipropylketone (di'prō-pil-kē'tōn), n. See

*heptanone.

dips, n. pl. See *dip, n., 7.

dip-section (dip'sek-shon), n. In geol., a section across inclined strata in the direction of
the dip.

the dip.
dipsesis (dip'sē-sis), n. [NL., < Gr. δίψησις, thirsting, < διψάν, feel thirst, < δίψα, thirst.]
Pathological thirst.
dipsetic, a. II. n. A substance that produces thirst. Syd. Soc. Lex.
dip-side (dip'sīd), n. The side in the direction of dip, the low side: used with reference to the attitude of rock formations in underground workings. workings.

dip-slope (dip'slop), n. A natural slope of the surface of the ground which is parallel to the dip of the underlying strata.

Its (the Arun's) course was determined by the original dip-slope of the Wealden dome.

Geog. Jour. (R. G. S.), XV. 220.

dipteraceous (dip-te-ra'shius), a. Same as *dipterocarpaceous.
dipterid (dip'te-rid), n. One of the Dipteridæ.

Of dipterocarp (dip'te-ro-kärp), n. A plant of the family Dipterocarpaceæ. Nature, Jan. 1, A plant of 1903, p. 198.

dipterocarpaceous (dip'te-rō-kār-pā'shius),

a. Belonging to the plant family Dipterocar-

dipterocarpous (dip'te-ro-kar'pus), a. In bot., belonging to the genus Dipterocarpus or to the family Dipterocarpaceæ.

dipterygian (dip-te-rij'i-an), a. Two-finned, as certain fishes.

dip-turner (dip'ter'ner), n. A workman in a pottery who decorates ware with a dip-compound, or colored slip. See *dip-ware.

dip-ware (dip'war), n. Earthenware decorated with a dip-compound, or colored slip. See the extract.

See the extract.

In the manufacture of this ware [dip-ware], the body or paste having been prepared as usual, is handed over to the "dip-turner." . . . Having coloured clays of the consistency of cream in a vessel with a spout that can be varied in form, he blows into this vessel through another tube, and thus forces the creamy clay out of the first mentioned spout upon the piece of clay turning slowly on the lathe. In this manner rings of coloured clay can, be deposited on the revolving plece of ware. . . The arborescent or dendritic forms may also be produced by the "dip-turner," who, after covering the turned piece of the original paste or body with an evenly-spread costing of his "dip" compound in its creamy condition, drops upon it, before it becomes dry, another kind of "dip" compound, having a greater density than the first, and thus, by holding the piece so that the heavier compound or colour can descend amid the moist first-spread "dip" he permits it to disseminate its particles in an arborescent form.

Handbook Brit. Pottery and Porcelain, Mus. Prac. Geol.

Handbook Brit. Pottery and Porcelain, Mus. Prac. Geol.,

dip-well (dip'wel), n. A well or spring from which water is obtained by dipping.

Dipylon vases. See *vase.
dipyridine (dī-pir'i-din), n. [di-2 + pyridine.]
Same as *nicotyrine.

Dir. An abbreviation of director.
diradiation, n. 2. Same as hypnotism. Syd. Soc. Lex.

Dircasan (der-se'an), a. Of or pertaining to the fountain of Dirce, in Bœotia, sacred to the Muses: applied by Horace in one of his Odes to Pindar, the lyric poet, whom he styled the Dircean Swan.

In direct, a. 8. In math., according to the natural order or correlation: in contradistinction to inverse.

In every other mathematical operation the inverse process is far more difficult than the direct process, subtraction than addition, division than multiplication, evolution than involution; but the difficulty increases vastly as the process becomes more complex.

Jevons, Prin. of Science, I. vii.

directable (di-rek'ta-bl), a. [direct + -able.] Capable of being directed or steered; dirigible: as, a directable balloon.

direct-connected (di-rekt'ko-nek'ted), a. Said of a machine, as an electric generator, in which the revolving generator or armature is borne on the shaft of the engine without any belt or other transmission device being re-

quired. Also called direct-coupled. direct-coupled (di-rekt'kup'ld), p. a. In mech., mounted upon a common shaft or upon shafts having the same axis and coupled so as to turn as one: said of the driving and driven portions of any mechanical system that are thus connected so that they revolve as a unit, with-out the intervention of belts or other de-

vices for the transmission of motion.

direct-driven (di-rekt'driv'n), p. a. In mech.,
driven without the use of belts or other devices for the transmission of power, the driving and driven parts being on a common shaft or direct-coupled: as, a direct-driven dynamo. direct-geared (di-rekt'gerd'), a. Having no

intermediate transmission-train of wheels or transforming mechanism intervening between the power-shaft and that which it drives: used of motor-cycles when a toothed wheel on the motor crank-shaft meshes into the gear fastened to the rear or driving-wheel. See also *directconnected.

connected.

direction, n.—Converse directions, in astrol., directions made in the reverse order of the signs, as when a planet in Places is directed to another in Capricorn.—Direct directions, in astrol., directions made according to the succession of the signs, as when a plane in Capricorn is directed to one in Pisces.—Equation of arcs of direction, in astrol., the method of turning directions into time, to ascertain at what period they will operate. The measure most commonly adopted is Ptolemy's, which allows a year for every degree.—Line of direction. (c) In psychol. optics, the straight line connecting a luminous point in space with the nodal point of the reduced eye, and continued thence to the retina. Primary directions in astrol., calculations of the motions of the heavenly bodies in forming aspects with one another, as in the ascendant and mid-heaven.—Ray of direction, in psy-

chol. optics, the parts of the line of direction that lie before the cornea and behind the lens.—Secondary directions, in astrol., calculations of the times of events derived from the aspects formed by the sun and moon after birth, allowing each day to represent a year of the native's life.

Directional calculus. Same as *calculus of ertension.

direction-word (di-rek'shon-werd"), n. Same

as catchword, 1.
directive. I. a.—Directive action force, etc. See
**action, **force, etc.
II. n. 1. In gram., a syntactic case expres-

sing direction toward an object: also called transitional.—2. In a sea-anemone or coral polyp, a mesentery which forms one of the boundaries of the intermesenteric space at one

of the poles of the principal axis. directivity (di-rek-tiv'i-ti), n. The character of being directive. Science, July 31, 1903, p. 140.—Theory of Directivity, an attempt to explain the creation and growth of living things, by means of a vital power which gives origin to them and determines their manner of growth. It is opposed to any mechanical explanation of organic nature.

explanation of organic nature.

director, n., 2. (c) In geom., a fixed guiding line. (d)
The small printed or written letter inserted as a guide
in the space to be afterward filled by the designer or
illuminator of the large initial.—Director of an original line, in persp., the straight line which passes through
the directing point of the original line and the eye or projection-vertex.—Director of the eye, in persp., the
intersection of the directing-plane with a plane through
the eye perpendicular to the original plane and that of
the picture, and hence also perpendicular to the directing
and vanishing planes.

director-niana (di-rek'tor-nian') v. In math

director-plane (di-rek'tor-plan'), n. In math., a plane director, or given plane used in the description of a surface.

director-tube (di-rek'tor-tūb'), n. A tube with

sights, or a telescope, by which a torpedo is aimed at the object attacked.

directrix, n. 4. The first line traced on the ground in laying out a fortification.

directum (di-rek'tum), n.; pl. directa (-ta). [L., neut. of directus, straight: see direct.] A straight line.— In directum, costraight, that is, in one straight line.

diremption. n. 3. In veg. teratol., the abnormal displacement of leaves. See *displacement, 6.

The term diremption has sometimes been applied to asses where leaves are thus apparently dragged out of position.

Masters, Vegetable Teratol.*, p. 87.

dirhombohedron (dī-rom-bō-hē'dron), n.; pl. dirhombohedra (-drē). [NL., < di- + rhombohedron.] A solid having the geometric form of a double hexagonal pyramid, but consisting in fact of two complementary rhombohedrons; a quartzoid.

Dirina (di-rī'nā), n. [NL. (Fries, 1825), ζ Gr. δειρή, a ridge of a hill, lit. neck, + ina¹.] A genus of lichens, the type of the family Dirinaceæ, having simple crustaceous thalli, discrinaceæ, having simple crustaceous thalli, discrinaceous ciform or elongate apothecia, and hyaline, spin-dle-shaped, 4-to 8-celled spores. The species occur on tree-trunks and rocks and are widely distributed.

distributed.

Dirinacese (di-ri-nā'sē-ē), n. pl. [NL., < Di-rina + -acese.] A small family of gymnocarpous lichens named from the genus Dirina.

dirinoid (dir'i-noid), a. [Dirina + -oid.] Resembling the genus Dirina.

dirt, n.—To cut dirt, to make off; take one's departure.

Haliburton. [Slang, U. S.]

dirt-bar (dert'bar), n. A grid-bar, in a cotton-

opening machine, so arranged in relation to the beater as to free the cotton from dirt. Also called dirt-grid.

dirt-grid (dert'grid), n. Same as *dirt-bar. dirt-line (dert'lin), n. A thin stratum of dirt and debris which has collected on the surface of a glacier and been preserved under the seasonal fall of snow. J. Geikie, The Great Ice Age, p. 30.

dirt-roller (dert'ro'ler), n. A small cylinder, covered with card-clothing, on a roller-andclearer cotton-carding machine, situated above the feed-rolls, designed to remove from the main cylinder heavy impurities, such as motes,

dirt-stop (dert'stop), n. A strainer; a form of foot-valve placed at the end of a feed-pipe to prevent solid matter from getting into the

prevent solid matter from getting into the feed-pump or injector.

dis² (dēs), n.; pl. disir (-ir). [ON. dis, a sister, a female guardian spirit, etc.] In Norse mythol., a guardian spirit.

dis. (b) In printing, an abbreviation of distribution, that is, dead type which is to be distributed into the various boxes of the typecase. See distribution, 3, and distribute, v. i., 2.

Disa (di'sa), n. [NL. (Berg, 1767), of unknown derivation.] A large genus of terrestrial compound. Compare diazo. orchids, mostly native to tropical and south disburdenment (dis-ber'dn-ment), n.



Africa, characterized by free sepals, the upper sepal galeate and spurred, the petals small and joined to the column. Only one species, Disa unifora (D. grandifora of Linnœus), is cultivated to any extent; but this is very handsome and is sometimes called flower-of-the-gods. The flowers are several, large, rose-colored, crimson, and carmine-red in their various parts.

disabusal (dis-a-bū'zal), n. [disabuse + -all.]
The act of disabusing. Mrs. Whitney.
disaccharid, disaccharide (dī-sak'a-rid or

disaccharid, disaccharide (di-sak'a-rid or rid), n. Same as *biose.
disaccord (dis-a-kôrd'), n. [disaccord, v.]
Want of accord; disagreement; lack or absence of harmony. Southey.
disacrone (dis-ak'rōn), n. [Gr. bic, twice, + acr(olein) + -one.] An old name for *disacryl.
disacryl (dis-ak'ril), n. [Gr. bic, twice, + acr(olein) + -yl.] An amorphous, resinous product formed by the spontaneous polymerization of acrolein.
disappearing (dis-a-pēr'ing), p. a. That disappears; vanishing.—Disappearing gun. See *gun!, gun-carriage.
disapprobative (dis-ap'rō-bā-tiv), a. That expresses disapprobation: as, a disapprobative frown.
disarm, v. t. 5. To press (the lips of a horse)

disarm, v. t. 5. To press (the lips of a horse) outward so that they may not be bruised on the toothless portions, or bars, of the lower jaw.

Give your horse a bit with a cannon coupe, or cut, which will disarm his lips. T. Wallis, Farrier's Dict.

disartete (dis-ār'tēt), a. [Appar. < L. dis-, apart, + Gr. *άρτητός, < άρταν, hang, suspend.] Said of fishes in which the palatine cartilage or its derivates are attached to both the preethmoid and the par-ethmoid cornua rather than confined to the former, as is the case in the acrartete type of fishes.

The other Percesoces examined by him, as well as the Cyprinodonts, are disartete (the attachment being at the par-ethmoid and pre-ethmoid cornus); but the character is so indistinctly defined in some adult Cyprinodonts, that I feel some diffidence in making use of this character for systematic purposes in the present state of our knowledge.

Annals and Mag. Nat. Hist., March, 1904, p. 174.

disarticulator (dis-är-tik'ū-lā-tor), n. [disarticulate + -orl.] One who or that which disarticulates or disjoints.

articulates or disjoints.

disassemble (dis-a-sem'bl), v. t.; pret. and pp.
disassembled, ppr. disassembling. [dis-+assemble.] To take apart.
disassimilate (dis-a-sim'i-lāt), v. t.; pret. and
pp. disassimilated, ppr. disassimilating. [dis+assimilate.] To cause retrograde metamorphosis or disassimilation in.

Beassimilation in.

Beassimilation in.

disassimilation (dis-a-sim-i-lā'shon), n. The opposite of assimilation; specifically, the same as retrograde metamorphosis (which see, under

metamorphosis) or catabolism.

disassimilative (dis-a-sim'i-la-tiv), a. In physiol., of the nature of catabolism (which

see); resulting from disassimilation or catabolism: as, disassimilative products.

disattaint (dis-a-tānt'), v. t. [dis- + attaint.]

To free from attainder. See attaint, v., 4.

disazo- (dis-az'ō). A combining form used in organic chemistry to indicate the presence of

two azo radicals, RN2R, in the molecule of a

of disburdening; relief from the burden of

something oppressive. Bentham.
disbursable (dis-bers'a-bl), a. Capable of being disbursed or expended; retailable.

Anecdotes also are portable, unlike the lightning-flash, which will not go into the pocket; they can be carried home, they are disbursable at other tables.

G. Mereduh, Diana, xiv.

disbury (dis-ber'i), v. t.; pret and pp. disburied, ppr. disburying. [dis-+bury3.] To disinter; resurrect: as, disburied secrets. Bulwer. discal, a. 3. In bot., located on the surface of a frond; superficial: applied to ferns. J.

discalenohedron (di-skā-lē'nō-hē'dron), n.; pl. discalenohedra (-drā). [di-2 + scalenohedron.]
A double twelve-sided (dihexagonal) pyramid, whose faces belong to two complementary scalenohedrons.

Discalia (dis-kā'li-g), n. [NL., < Gr. δίσκος, disk.] The typical genus of the family Discalidæ. Haeckel, 1888.

Calidæ. Haeckel, 1888.

Discalidæ (dis-kal'i-dē), n. pl. [NL., < Discalidæ (dis-kal'i-dē), n. pl. [NL., < Discalidæ (dis-kal'i-dē), n. pl. [NL., < Discalidæ (dis-krō'ma-top-si), n. [Gr. $\delta \iota$ -, calia + -idæ.] A family of disconectous two-, + $\chi \rho \bar{\nu} \mu a(\tau)$, color, + $\delta \psi \iota \varsigma$, view.] Color-siphonophora inhabiting the deep sea. They have an exumbrella without crest, gonostyles without mouth, pneumatocyst divided into a central chamber surrounded by 8 radial chambers, a circumferential arrangement of 5 to 10 concentric ring-chambers, and tentacles with chidospheres. It includes the genera Discalia and Disconalia.

discard, n., 1. (c) In poker, the pile of cards made up by the hands which are abandoned without being bet upon, and the cards which have been laid off so as to get others in exchange for them.

discarnate, a. 2. Disembodied; disincarnate. We ought to expect a priori that a discarnate memory should be defective in its communications from a trans-

J. H. Hyslop, in Proc. Soc. Psychical Research, XVI. 216. discept (di-sept'), v. i. [L. disceptare, decide, judge, dispute, \langle dis-, apart, + captare, take.]
To dispute; take exception; differ: as, allow me to discept. Peacock.

me to discept. Peacock.
discerptor (di-serp'tor), n. One who discerps,
dismembers, or disjoins.

The first discerptor [of the genus Cimex] was Fabricius,
who, in a perfectly straightforward manner, removed our
species [lectularius] from Cimex to form a part of his new
genus Acanthia.

Nature, March 17, 1904, p. 464.

dis. ch. In chess, an abbreviation of discovered *check.

discharge, v. t. 9. In law, to make an end of; annul; cancel: as, to discharge a rule to show

cause.

discharge, n.— Brush discharge, in elect., the brushlike electric discharge issuing from a high potential
conductor, especially from its points or edges. It is accompanied by a bluish or pink glow, is either silent or produces a hissing noise, and frequently precedes disruptive
sparks. See electric spark, under spark!.—Coefficient of
discharge. See *coeficient.—Electrodeless discharge,
the glow excited in the vapor within an exhausted glass
tube or bulb having no electrodes, when the tube is placed
within the oscillatory field of a Tesla coil or other device
for the production of oscillatory electrical discharges of
high frequency.

The electrodeless discharge is more simple in appear-

high frequency.

The electrodeless discharge is more simple in appearance and in constitution than the better known discharge in vacuum tubes between electrodes.

B. Davis, in Physical Rev., xx. 129.

Law of nervous discharge, in Spencer's psychol., the principle that "every feeling, peripheral or central, sensational or emotional, is the concomitant of a nervous disturbance and resulting nervous discharge, that has on the body both a special effect and a general effect." (H. Spencer, Prin. of Psychol., il., § 496).—Tesla discharge, in elect., the disruptive electric discharge of high frequency obtained from a Tesla coil. See Tesla *coil.—White discharge* an electric discharge through vacuum tubes, obtained when the tubes contain dry air or certain other gases, as carbon dioxid, under certain pressures. It is characterized by a bright glow of white light which fills the tube.

The white discharge may be produced in all the gases with which I have experimented.

B. Davis, in Physical Rev., XX. 149.

discharge-pipe (dis-charj'pip"), n. Same as *delivery-pipe.

*delivery-pipe.

discharger, n. (c) In transportation, a machine or appliance used in discharging freight, coal, grain, or other material in bulk, from a carrier, conveyer, or elevator. The most simple form is an opening at the end or bottom, at any point of the trough of a conveyer through which the load is pushed by the screw or the flights of the conveyers, and elevators the discharger may be the end wheel over which the belt or series of buckets passes, the change in direction (assisted by the momentum) serving to discharge the load upon a table or into a bin, hopper, spout, or another conveyer. Dischargers are divided into stationary machines that trip, upset, or invert the buckets of a horizontal conveyer and cause them to discharge their loads at a fixed point, and machines that travel along the line of the conveyer and automatically discharge

the loads at any desired point. Also called automatic dumper. (d) In mining and industrial railroading, a device for unloading skips, ore-cars, etc., upon inclined roads or slopes. One device consists of an open abrupt change in the grade of the track, whereby the forward end of the car, to which the hauling-cable is attached, is tilted up and the load discharged through a gate at the rear. Another device employs two tracks at the dumping-point, and a skip with four wheels of which the rear pair have a wider tread than the forward pair. The skip is hauled by a cable attached to a link pivoted at the rear end of the skip; and when the discharger is reached the forward wheels follow the inside or narrow tracks, which here run in a horizontal direction, while the rear wheels continue on the inclined rails. This causes the skip to be tilted up, discharging the load at the front and open end. When empty, the skip runs back down the incline in its normal or loaded position.

discharge-water (dis-chärj'wâ"ter), n. The

discharge-water (dis-chärj'wå'ter), n. The water discharged by a pump: specifically water which is discharged after passing through a condenser.

discharm (dis-chärm'), v. t. [dis-+ charm1.]
To deprive of charm or the power of charming; deprive of the protecting influences of charms; disenchant.

Brave Luther answered YES: that thunder's swell Rocked Europe, and discharmed the triple crown. Lowell, To W. L. Garrison, st. 5.

discigerous (di-sij'e-rus), a. [L. discus, disk, + gerere, bear, + -ous.] Disk-bearing: as, + gerere, bear, + -ous.] Disk-bearing: as, disciperous woody tissue.

discin (dis'in), n. [Gr. δίσκος, disk, + -in².]

The albuminous component of the jelly of

The albuminous component of the jelly of Medusæ: possibly an albuminoid.

Discinidæ (di-sin'i-dē), n. pl. [NL., < Discina + -idæ.] A family of neotrematous Brackio-poda having chitinous, subcircular plano-convex shells with an open pedicle-notch in early life which becomes inclosed as a long narrow slit partially covered behind or near the apex by a listrium.

Discinisca (dis-i-nis'kä), n. [NL., < Discina + dim. -isca, < Gr. -ισκος.] A genus of Brachiopoda resembling Discina, but having an internal septum behind which is an elevated area about

the pedicle-opening. See Discina.
disciplinability (dis'i-plin-a-bil'i-ti), n. The quality of being disciplinable.

Marro lays chief stress upon disciplinability and socia-ility. G. S. Hall, Adolescence, I. 299. hility

disciplinatory (dis'i-plin-a-tō'ri), a. Promotive of discipline: as, disciplinatory educational methods.

discipline, n.—Jamaica discipline, a former bucaneer or pirate law, to the effect that all prizes should be divided among the captors and not shared by those who take no part or risk in the capture.—Prefect of discipline, in the Jesuit schools, one who has charge of the disciplinary regulations for the students.

disciplular (di-sip'ū-lār), a. [L. discipulus, disciple, + ar³] Pertaining to or characteristic of adiabales and discreteller sections.

teristic of a disciple: as, discipular patience. N. E. D.

discission, n.— Space of discission, in gool., a crevice or space of dynamic origin; a separation of walls that had been in contact; used in contrast with space of *dissolu-

Formerly I called such spaces (with reference mainly to the accompanying fault-phenomena) "Spaces of Dislocation" but I believe the term "Spaces of Discission" . . . would be more suitable.

F. Posepný, in Trans. Amer. Inst. Min. Engin., XXIII. 208.

disclaimant (dis-klā'mant), n. [disclaim + -ant.] A disclaimer; specifically, one who enters a disclaimer in a patent case. See disclaimer, n., 3 (d). disclassed (dis-klast'), p. a. Same as de-

classed, a.

disclassify (dis-klas'i-fi), v. t. [dis-+ classify.]
To abolish classificatory distinctions in regard to; do away with the classification of.

The process of levelling, disclassifying, making everybody like everybody else.

Grote, Utilit. Philos., xix. N. E. D.

disclosure, n. 3. The hatching of the young from the egg, as in birds and reptiles, or the escape of insects from the pupa-case.

disclose, disclosure. Simplified spellings of disclose, disclosure.

discobolic (dis-kob'ō-lik), a. [discobolus + -ic.] Of or pertaining to a discobolus; quoit-

throwing.

He gave loose to the full torrent of his indignation, by seizing . . . a vast dish of beef, more than fifty ancient yeoman could eat, and whirled it like a cott, in terrorem, over the head of the friar, to the extremity of the apart-

Where it on oaken floor did settle, With mighty din of ponderous metal. . . .

Discocampyli (dis-kō-kam'pi-lī), n. pl. [NL., ⟨ Gr. δίσκος, a disk, + καμπίλος, croōked.] In Hyatt's classification of the ammonites, a suborder characterized by the rounded outline of ble (to) or in conformity (with): as, the work is disconform to the specifications. [Scotch.] become greatly divided, as exemplified in the genus Ceratites (which see, with cut). In highly advanced forms even the discocampylic saddle

becomes much divided.

discocampylic (dis-kō-kam'pi-lik), a. Of or pertaining to the Discocampyli; having rounded

saddles, as the Discocampyli, having rounded saddles, as the Discocampyli.

discocellular (dis-kō-sel'ū-lär), a. [L. discus, disk, + NL. cellula, cell, + -ar³.] Of or pertaining to the discal cell in the wings of lepidopterous insects.

discoctaster (dis-kok-tas'ter), n. [NL., < Gr. δισκος, disk, + δκτω, eight, + ἀστήρ, star.] A sponge-spicule with eight rays, each terminating in a disk, the position of each of which corresponds to one of the eight corners of a cube.

Discocytis (dis-kos'i-tis), n. [Gr. δίσκος, a disk, + κυτίς, a box.] A genus of Cretaceous Bryozoa forming obconic and cup-shaped zoaria the upper side of which has a decidedly radial structure.

discontinuous, a.—Improperly discontinuous discontinuous, a.—Improperly discontinuous group. See *group. See *gro

discodepula (dis-kō-dep'ū-lä), n. [NL., < Gr. bioxoc, a quoit, disk, + NL. depula.] The depula that develops from a discogastrula. Haeckel.

discoglossoid (dis-kō-glos'oid), a. Resem-

bling the Discoglossidæ, a family of toads.

Discohelix (dis-kō-hō'liks), n. [NL., < Gr. discoplacental, d. 2. Relating to, or having the characters of the group of mammals known as Discoplacentalia from the character of the placenta.

In the characters of the group of mammals known as Discoplacentalia from the character of the placenta.

Discoplacentalian (dis-kō-plā-sen-tā'li-an), and n. I. a. Relating to or resembling the Discoplacentalia.

discohexact (dis-kō-heks'akt), n. [Gr. δίσκος, disk, + $\tilde{\epsilon}\xi$, six, + $\tilde{\epsilon}\kappa\tau$ ίς, ray.] Same as disco-

discohexactine (dis 'kō-hek-sak'tin), n. [Gr. δίσκος, a disk, + εξ, six, + ἀκτίς (ἀκτίν-), a ray.] In the nomenclature of the spicular elements of the sponges, a hexactine which bears at the end of each arm or ray a rosette or serrated umbel.

Discoidal stone. See *stone.

Discoidea, n. pl. 3. A family of peripylarian Radiolaria having the shell and central capsule discoid or lenticular. It includes Ceno-

discolichen (dis-kō-lī'ken), n. [NL. discolichen, $\langle Gr. \delta i \sigma \kappa \sigma c, disk, + \lambda \epsilon \iota \chi \eta \nu, lichen.]$ Any one of the lichens which belong to the division

Discolichenes (dis'kō-lī-kō'nēz), n. pl. [NL., pl. of discolichen: see discolichen.] A division of the Ascolichenes in which the fructification is in the form of open disk-like apothecia. Com-

in the form of open disk-like apothecia. Compare Pyrenolichenes.

discolith, n. 2. A disk-shaped coccolith convex on one side and concave on the other.

Discomedusæ, n. pl. 2. Same as Octomeralia. discomfort, n.—Curve of discomfort. See *curve. discomposedly (dis-kom-pōz'ed-li), adv. In the manner of one who is discomposed, perturbed, or disturbed in mind.

Disconanthæ (dis-kō-nan'thē), n. pl. [NL.,

the manner of one who is also one turbed, or disturbed in mind.

Disconanthm (dis-kō-nan'thē), n. pl. [NL., appar. erroneously for *Discoanthm or *Discoant

conanthæ.

Disconectæ (dis-kō-nek'tē), n. pl. [NL., ⟨ Gr. δίσκος, disk, + νήκτης, swimmer.] A suborder or section of Siphonophora. The body, or conosome, is formed by the umbrella of the original octoradial medusa and includes an apical chambered pneumatophore, without nectophores or bracts, on the lower surface of which occur the individuals consisting of a central gastrozoöid surrounded by concentric rings of blastostyles and dactylozoöids. The larva is called a disconula. The group includes the families Disconidae, Porpitiae and Veteliaes. Equivalent to Disconanthæ.

disconectous (dis-ko-nek'tus), a. Of or pertaining to the Disconectæ.

it . . . his discobolic exploit proved the climax of his disconfidence (dis-kon'fi-dens), n. Lack of and was succeeded by an immediate sense that he confidence confidence.

He [an Indian chief] always treated me with a certain disconfidence, as is customary among the Indians, even in contact with their friends.

Geog. Jour. (R. G. S.), XII. 64.

disconnective (dis-ko-nek'tiv), a. Disjunctive; that disconnects or serves to disconnect.

disconsider (dis-kon-sid'er), v. t. To leave out of consideration; set aside as not worth consideration or respect.

As the man was now disconsidered and as good as deposed, we might reduce his proportion of the plunder.

R. L. Stevenson, Master of Ballantrae, iii.

disconsideration (dis-kon-sid-e-rā'shon), n. The state of being disconsidered; disrepute.

discontiguity (dis-kon-ti-gū'i-ti), n. Lack of contiguity or continuity. Dr. H. More.

discontinuity, n.—Polar discontinuity, a discontinuity of a function consisting of its assuming, in the enviously of a function consisting of its assuming. rons of the point x=a, values differing little from $\frac{Fx}{(x-a)}m$ where Fx varies regularly in that part. The exponent m is the order of the polar discontinuity.

discontinuous, a.—Improperly group. See *group. discontinuous

nophora.

 (I., ζ Gr. discoperipheral (dis'kō-pe-rif'e-ral), a. [Gr. The depgastrula. Arranged in a disk-like manner around the mouth, as the teeth and sucking-disk of the lampreys.

discoplacental, a. 2. Relating to, or having the characters of the group of mammals known as Discoplacentalia from the character of the

and n. I. a. Relating to or resembling the Discoplacentalia.

II. n. A member of the Discoplacentalia. discoplanula (dis-kō-plan'ū-lä), n.; pl. discoplanulæ (-lē). [NL., ζ Gr. δίσκος, disk, + NL. planulæ.] The discoidal blastoderm of an egg with a large unsegmented food-yolk, at the stage of development which is comparable with the blastula-stage of an egg that undergoes total segmentation.

discoplasm (dis'kō-plazm), n. [NL. discoplasma (Ehrlich), ⟨ Gr. δίσκος, disk, + πλάσμα, anything formed.] The structural portion of the red blood-corpuscles in contradistinction to the hemoglobin. Flutich

hemoglobin. Ehrlich.

the Panama region. D. tschudii is the common species.

discord, n. 2. A discord is said to be prepared when the dissonant tone is first introduced in its voice-part as a consonance and then is held over into a dissonant relation by that part, or even when it is reached by its voice-part through a distonic step: but it is unprepared when introduced by a skip or abruptly. See preparation, 9. discordance, n. 3. In geol., a lack of parallelism or complete conformity in associated strata.

end and girdled with concentric rings.

discouple (dis-kup'l), v. t.; pret. and pp. discoupled, ppr. discoupling. To separate (couples) into units; uncouple.

We entered through the cleft, one before the other, ascending the steps whose narrowness discouples those who mount.

W. S. Dugdale, Dante's Purgatorio, xxv.

discourse, n. 6. That sort of mental operation, performed by one person or by several, in which a line of thought is followed out. In either

case, it is conducted by signs which are in part general, or typical, in their own mode of being, usually ordinary language; in part diagrams or other leonic signs; and in part indices, such as individual signs representing the typical signs. A sign in functioning as such must be interpreted, or be translated into thought signs, and must be addressed to some interpreter. In the case of inward discourse, the person alternately places himself in different attitudes of mind, and addresses the self of a moment later. Discourse, in this sense, is not, like that of 2, restricted to ratiocination. G. F. Stout, Analyt. Psychol., I. 87.
discovery, v. t.—To discover check. See *check1.
discovery, n.—Bill of discovery. See *bill3.
discreate (dis-krē-āt'), v. t.; pret. and pp. discreated, ppr. discreating. To cause (that which has been created) to return to its original nothingness or to chaos.

thingness or to chaos.

discreation (dis-krē-ā'shon), n. The act of dis-

posed, we might reduce his proportion of the plunder.

R. L. Stevenson, Master of Ballantrae, iii.

disconsideration (dis-kon-sid-e-rā'shon), n.

The state of being disconsidered; disrepute.

I have now arrived at such a pitch of disconsideration that . . I do not know a soul that I can face.

R. L. Stevenson, The Dynamiter, p. 190. N. E. D.

discontiguity (dis-kon-ti-gū'i-ti), n. Lack of contiguity or continuity. Dr. H. More.

Clearness implies a maximal discriminability or separability from other processes.

E. B. Titchener, Exper. Psychol., I. ii. 189.

discriminant. I. n.—Discriminant of f(x) = 0, the product of the squares of all the differences between any two roots of the equation.

II. a. 2. Discriminating.

discriminate, v. i.—Discriminating circle, cubic. See circle, *cubic, n.

See circle, **Counc, n.

Discrimination reaction, discriminative reaction, in
psychophysics, a reaction in which the movement of response is delayed until an act of discrimination has been
performed, that is, until the reactor has identified the
given stimulus as some one of two or more stimuli previously known and agreed upon.

In the discrimination reaction, he [the subject] moves when he has apperceived some one of two or more familiar stimuli.

E. B. Titchener, Primer of Psychol., p. 260.

stimuli. E. B. Titchener, Primer of Psychol., p. 290.

Law of discrimination. Same as Weber's law (which see, under law).—Sensible discrimination, in psychophysics, a term introduced by Fechner to cover the experiencing of mental processes, alike or different, and the report of their likeness or difference. It is used more especially of the methodical comparison of sensations, with a view to the determination of the difference-limen. The German term, unterschiedsempfindlichkeit, has been variously translated difference sensibility, differential sensitivity, discriminations essensibility, and sense discrimination. J. M. Baldwin's Dict. of Philos. and Psychol. (ii. 517) recommends sense discrimination; E. B. Titchener (Exper. Psychol., II.) uses differential sensitivity (abbreviated D. S.).

The instrument of this analysis for sensetions?

The instrument of this analysis [of sensations] was denominated by Fechner sensible discrimination.

O. Kilipe (trans.), Outlines of Psychol., p. 31.

discrimination-time (dis-krim-i-nā'shon-tīm), n. In psychophysics, the total duration of the discrimination reaction, or, more commonly, this time minus the duration of the simple re-

By subtracting the previously determined simple time from this longer time we get a discrimination time.

W. Wundt (trans.), Human and Animal Psychol., p. 279.

Discriminative limen, threshold. See *limen. disct. A contraction of discount.

disculor, v. t. and a. A simplified spelling of discolor

disculus (dis'kū-lus), n.; pl. disculi (-lī). [NL., dim. of discus, a disk: see disk.] In Hepatica, the occasional adventitious inflated lower lobe.

See auricle, 3, (c). Spruce. discumfort, v. t. and n. A simplified spelling of discomfort.

discurage, v. and n. A simplified spelling of discourage.

discurteous, discurtesy. Simplified spellings ot discourteous, discourtesy,

discuver, discovery. Simplified spellings of discover, discovery. disdisclasis (dis-di-ak'la sis), n. [Gr. δίς, twice, + διάκλασις, taken as 'refraction': see dia-

clasis.] In optics, double refraction.

classis.] In optics, double refraction.

disease, n.—Acarine diseases. See *acarine, n.—
Adams-Stokes disease, Same as Stokes-Adams *disease. Adenoid disease. See *adamoid.—Almond-disease. See *alcaf-blight.—American coffee-disease, circular whitish blotches occurring on the leaves, shoots, and berries of the coffee plant in America: said to be due to the fungus Stilbum favidum.—Association disease. See *association.—Baelis* disease of banana-stems in the West Indies, attributed to the fungus Marasmius semiustis.—Banti's disease, an affection marked by enlargement of the spleen with cirrhosis of the liver, anemia, abdominal dropsy, and sometimes jaundice.—Barcoo disease, an affection. occurring in the elevated regions of South Australia, characterized by gastric disturbances, bulimia, and an cruption followed by extensive desquamation and sometimes sloughing of the subcutaneous tissues. Also called Barcoo vomit and Barcoo rot.—Barlow's disease, infantile scurvy.—Bazin's disease, tuberculous ulceration of the leg: psoriasis of the mouth; molluscum contagiosum.—Bechterew's disease, gen-

cral muscular atrophy with extreme stiffness of the spine.

—Bermuda illy disease, a disease of the cultivated lily characterized by spotting and distortion of the leaves and flowers and usually a stunting of the whole plant. It is believed to be caused by digging and using the bulbs before they have ripened.—Bottom disease, See *crotalism.—Brindle disease. Same as mosaic *disease.—Brown disease, a disease which affects potatoes, causing the florovascular bundles to turn brown. It is attributed to the fungus Stysanus stemonites.—Brown-Séquard's disease, paralysis of one side of the body with anesthesis of the other side.—Buhl's disease, a disease of newborn infants, marked by fatty degeneration of the liver, edema, purpura, and other morbid conditions.—Cabage, caused by the fungus Oljudium Brassicæ, which attacks the stem near the surface of the soil and kills the plant.—Cacao-disease, dark dead patches on the cortex of cacao, which are doubtfully attributed to species of Nectria.—Cacao-disease, dark dead patches on the cortex of cacao, same as mosaic *disease.—California vine-disease, a serious disease of the grape in California characterized by the imperfect development of the flowers and fruit and finally the death of the plant. Its cause is unknown.—Canna-disease, a disease of canna-leaves, due to Uredo Cannæ, which causes orange spots at first and finally the death of the leaf.—Carnation disease, a disease of canna-leaves, a disease of canna-leaves, a disease of canna-leaves, a disease of canna-leaves, a disease of shis conclusion that aphides alone are responsible for the carnation-disease. Encyc. Brit., XXVI. 60. Carrot-disease, a disease characterized by brownish sunken spots on the root of the carrot, caused by Phoma

sible for the carnation-disease. Energe. Brit., XXVI. 60. Carrot-diseases, a disease characterized by brownish, sunken spote on the root of the carrot, caused by Phona sanguinolna. It also attacks the stem and prevents the formation of seed.—(Cattle-and-game disease, a fatal infectious disease of cattle, deer, and other animals, due to a minute polar-stained micro-organism of the swine plague group, which gains access to and multiplies in the blood. Also called hemorrhagic septicemia.—One-tunt disease, an obscure disease of plants in which they die backwards from the top.—Glimatteric disease, say disease supposed to be caused by a change of climate, as the so-called fever of acclimatization of the tropics.—Offee-disease, aserious disease of the coffee-plant in India and other portions of the Old World. It is caused by one of the rust-fung, Hemisica vastariz, which attacks the leaves causing yellow discoloration and death—Offee-leaf disease. Same as cofee-Adisease.—Colocasia-disease, a disease caused by Peroncepora trichotoma, which attacks the roots of Caladium Colocasia in the West Indies.—Conjfer seedling disease, a disease of conifers, especially of spruce and silver fit, caused by the fungus Pestalozzia Hartipii, which attacks the young plant at the surface of the soil and kills it.—Coral-spot disease, canker-like cracks or excrescences on the branches of various trees, associated with the bright red fungus, Nectria cinnabarina.—Cretinoid disease, Same as myazedma.—Darier's disease. Same as *adisporis dolorose.—Divers' disease, a disease of the peony caused by a fungu, Scierotinia Pæonie, which attacks the plant at the surface of the soil causing it to will and dise-Dubois' disease, same as Dubois' *absesses.—During's disease, same as Dubois *absesses.—During's disease, same as Dubois *absesses.—During's disease, same as Dubois *absesses.—During's disease, same as no control disease, and the previous disease, and an adiction of here to the disease, and the barboth here of the disease, and the barboth here o

ally as an inflammation of the lower portion of the great seamodal and quantize were informition largeries and disease of the roots of seedling cake due to the pyreen years and sease of the roots of seedling cake due to the pyreen years and sease of the roots of seedling cake due to the pyreen years and seed of the serve-pine. Pearly disease, at the sease of the serve-pine. Pearly disease, a stributed to the fargeries of the serve-pine. Pearly disease, a stributed to the fargeries of the serve-pine. Pearly disease, a stributed to the fargeries and the property of the serve-pine and property of the pearly disease, a stributed by the course of thouse provides and the property of the pearly disease, a form of the server of the server of the server of the pearly disease, and the server of pigmentation of the skin, and of pains in the joints. Bed disease, a former name in some parts of Regiand of pigmentation of the skin and of pains in the joints. Bed disease, a former name in some parts of Regiand of pigmentation of the skin and of pains in the joints. Bed disease, a former name in some parts of Regiand of pigmentation of the skin and of pains in the joints. Bed disease, a former name in some parts of Regiand of pigmentation of the skin and section of the mouth. Bearred disease, as more of the section of the section of the mouth. Bearred disease, as more of the section of the secti

disease-fungus (di-zēz' fung-gus), n.; pl. disease-fungi (-i). A fungus capable of producing disease in either animals or plants.

disease hether animans or planes.

disease-proof (di-zēz' pröf), a. In bot., proof against disease. See *resistant, I. 2.

diseme (dī'sēm), n. [L. disēmus, < Gr. δίσημος, of doubtful quantity (having two possible quantities), < δι-, two-, + σῆμα, a mark, taken in sense of σημεῖον, a mark, sign, unit of time, mora.] In anc. pros., a syllable containing two moræ or units of time. See disemic.

disenactment (dise-nakt'ment), n. [disenact + σμεντ!] The repeal of an enactment. S

The repeal of an enactment. Smiles.

disengagement-gear (dis-en-gāj'ment-gēr), n. A releasing-gear; a device for disengaging a catch from the notch or pin with which it is engaged. Such a gear is used in Corliss engines to let the admission-valve close at the right time.

disengagement-governor (dis-en-gāj'ment-guv'er-nor), n. A governor which works by disengaging the valve-gear when the speed is too high, thus closing the regulating-valve, and by engaging the valve-gear when the speed is too low and so opening the regulating-valve. When the engine runs normally the governor When the engine runs normally the governor runs free.

disenmesh (dis-en-mesh'), v. t. To free from entanglements or entangling meshes.

As ve behold this web of circumstance Deepen the more for every thrill and throe, Convulsive effort to disperse the films And disenmesh the fame o' the martyr. Browning, Ring and Book, xii. 566.

disharmony. Ripley, Races of Europe, p. 39. disharten, v. t. A simplified spelling of dishearten.

dished (disht), p. a. Concave, as a dish; hollowed out.—Dished face. The face of an animal that is decidedly concave in profile.

There was a time when swine-breeders had a delusion or "dished faces" and heavy jowls.

Rep. Kan. State Board Agr., 1901-02, p. 52.

Dished hoof. See ★hoof.

Dished hoof. See *hoof.
dish-faced, a. 1. (b) Said of a horse in which
the profile of the face is concave.
dish-feed (dish'fed), n. A device for feeding
cotton into a carding-machine. It consists of a
roller and a flat-plate, the latter curved upward at the
delivery end. Also called shell-feed.
dish-keel (dish'kēl), n. A keel composed of a
broad horizontal plate bent up slightly at the
edges to give a connection with the side plating.
dish machine (dish'machēn) n. In secoloedges to give a connection with the side plating.

dish-machine (dish'ma-shēn'), n. In woodworking, a power-machine for cutting thin shallow dishes or platters from wood. The block of wood, previously steamed to soften it, is placed in the machine, firmly clamped to the feeding mechanism, and presented to the cutting-tools which cut off thin veneers of the required shape. It will cut 7,000 veneers it of an inch in thickness, in an hour. The dishes when cold retain their dish-like form.

dishome (dis-hōm'), v. t.; pret. and pp. dishomed, ppr. dishoming. To deprive of a home; render homeless.

dishouse (dis-hous'), v. t.; pret. and pp. dishouse (dis-hous').

dishouse (dis-hous'), v. t.; pret. and pp. die housed, ppr. dishousing. 1. To expel from a house; evict.—2. To clear of houses, as in widening a street or in making other public improvements.

dishumanize (dis-hū'man-iz), v. t.; pret. and pp. dishumanized, ppr. dishumanizing. To dehumanize; deprive of human powers or attrihutes.

dish-washer, n. dish-washer, n. 4. A machine for cleaning and washing plates, dishes, etc. It consists essentially of a large vessel kept full of boiling water charged with soap-powder. The crockery is placed in a large galvanized wire basket suspended by a chain from a crane and lowered into the water. Power is applied to large revolving paddles or agitators that keep the hot soapy water in violent motion through the basket, completely washing the contents. The soiled water is removed and clean water added as fast as required. The machine has a capacity of many hundreds of dishes an hour. When the dishes are washed the basket is raised out of the water, swung round on the crane and lowered for a moment into clean, hot water. On taking the basket out of the rinsing water the dishes dry quickly from the heat to which they have been subjected.

disilluminate (disi-j-lü'mi-nāt), v. t.; pret. and 4. A machine for cleaning

disilluminate (dis-i-lū'mi-nāt), v. t.; pret. and pp. disilluminated, ppr. disilluminating. To deprive of light; obscure; darken.

The gods are heavy on me, and all the fates Shed fire across my eyelids mixed with night, And burn me blind, and disilluminate My sense of seeing.

Swinburne, Atalanta.

disillusive (dis-i-lū'siv), a. Tending to disillusion or to disillusionize.

A long line of disillusive centuries has permanently displaced that [Hellenic idea of life].

T. Hardy, Return of the Native, iii. 1.

disimagine (dis-i-maj'in), v. t.; pret. and pp. disimagined, ppr. disimagining. To imagine not to be; cease to imagine; banish from the imagination.

Truth, whose centre is everywhere and its circumference nowhere, whose existence we cannot disimagine.

Emerson, Letters and Social Aims, Progress of Culture.

disimitate (dis-im'i-tat), v. t.; pret. and pp. disimitated, ppr. disimitating. To cease to imidisimitate (als-im i-tat), v. t.; pret. and pp. disimitated, ppr. disimitating. To cease to imitate and to undo the results of imitation. Tarde (trans.), Laws of Imitation, p. 20. disimmure (dis-i-mūr'), v. t.; pret. and pp. disimmured, ppr. disimmuring. To free from immurement or confinement within prison walls;

release; liberate.
disimprisonment (dis-im-priz'on-ment), n.

Release from imprisonment;

disincarnate (dis-in-kär'nāt), a. Disembodied; freed from the trammels of the flesh, as the souls of the dead. F. T. Palgrave, Death in the Forest.

On the hypothesis already explained, these appearances would be caused by the action of the disincarnate upon the living mind.

A. Lang, in N. Y. Evening Post, Jan. 12, 1901.

disinfector, n. 2. A machine or apparatus for disinfector, n. 2. A machine or apparatus for disinfecting and cleaning garments, bedding, etc., by means of hot water, steam, chemicals, or the fumes of burning materials. One type employs a steam-tight drum in which the articles are either boiled or washed by the aid of chemicals, steam, or hot water. Another form is a gas-tight closet in which the things are submitted to disinfecting fumes. disinfeudation (dis-in-fü-da'shon), n. In law,

the act of freeing from the obligations of a feudal tenure.

disinheritation (dis-in-her-i-ta'shon), n. Disinheritance.

disintegrant (dis-in'tē-grant), n. Whate disintegrates or tends to disintegrate. Whatever

disintegration, n.—Boulders of disintegration, rounded masses of rock which are produced by weathering from fragments originally angular. Granites and other massive varieties which are much cut up by joints are often covered by these boulders, which closely simulate water-worn specimens.—Disintegration-product, a substance formed by the breaking down or chemical disintegration of another. In radioactivity the idea of disintegration is extended to the elements, helium being regarded as a disintegration-product of radium.—Disintegration theory, in radioactivity, the theory that certain elements, as radium, thorium, actinium, and uranium, undergo successive spontaneous changes with the production of a series of new substances called disintegration-products.

disintegrationist (dis-in-tē-grā'shon-ist). n.

disintegrationist (dis-in-tē-grā'shon-ist), n.
An advocate of disintegration or of some

theory of disintegration.
lisintegrator, n. 2. See *sand-mixer. disintegrator, n. 2. See *sand-mixer. — Carr disintegrator, an impact crushing-machine consisting of a series of concentric cages revolving in opposite directions at high speed.

disintensify (dis-in-ten'si-fi), v. t.; pret. and pp. disintensified, ppr. disintensifying. To render loss intense; tone down.

And all-subduing black,—black's soul of black Beyond whites' power to disintensify. Browning, Feriahtah's Fancies, Bean-Stripe.

disjected (dis-jek'ted), p. a. Torn or wrenched apart; dismembered; sundered; disconnected;

scattered: as, a disjected series of lectures; disjected members

disjunction, n. 2. In logic: (b) a term consisting of two or more terms united by the conjunction or or its equivalent.—3. In biol., the separation or alternative inheritance of the parental characters in crosses between inbred varieties or strains of domesticated plants and animals. Called also the law of disjunction, or Mendel's law. See *inheritance.

Disjunctive absorption, term. See *absorp-

disjunctor, n. 2. In bot., the minute spindle-shaped cellulose body formed in the middle lamella between each pair of conidia of certain fungi.

These disjunctors serve as points of application for the elastic push of the swelling spore-ends, and as the connecting outer lamella of the cell wall suddenly gives way, the spores are jerked asunder.

Encyc. Brit., XXVIII. 557.

disk, n., 5. (d) In Echinodermata, the central part of the body from which the arms radiate. (e) In crinoids, that part of the theca which lies above the origins of the free arms. Also called tegmen and vault. See dorsal *cup. (f) In Rotifera, that portion of the head which bears the ciliary wreath. (g) In mollusks, the lower surface of the foot or part used in locomotion, as in gastropods. (h) In some coelenterates, the oral aspect of the body. pods. body.

8. A small medicated gelatin tablet about $\frac{1}{2}$ of an inch thick, which contains a small amount of glycerin to prevent it from becoming hard and brittle: a simple means of applying hard and brittle: a simple means of applying accurately adjusted quantities of mydriatic, myotic, and anesthetic alkaloids such as atropin, physostigmine, and cocaïne to the eye.

—Acoustic disk. See *accustic.—Anangioid disk. See *anangioid.—Central disk, a secondary chitinous extension between the bases of the branches of the rhabdosomes in some graptolites, notably the Dichograptidse. It consists of two layers and serves partly as a basal support for the branches and partly as an organ of fixation.—Hensen's disk, a light band in the center of a Bowman's disk.—Interfusion disk, the disk formed by the interfusion and mingling of the rays which pass through the objective of an optical instrument. In a telescope it is the image of the object glass formed by the eyepiece.—Lagrange disk. Same as interfusion **Adisk.—Masson's disk, in exper. psychot., a disk of white cardboard along one of whose radii is drawn an interrupted black line of even thickness. On rotation, the disk shows a series of gray rings, dark near the center and lightening to imperceptibility toward the periphery. The disk has been much used for the determination of the visual attention. Annales de Chimie et de Physique, XIV. 150.—Middle disk of Engelmann. Same as Hensen's **Adisk.—Primary disk, the disk of adhesion or fixation by which the sicula and young rhabdosomes of certain graptolites were attached. It was of tenuous structure and was frequently replaced by a secondary (central) disk. See central **Adisk.—Ramsden disk, a disk upon which concentric circles or wheels are drawn: so called because the circles appear to spin when the disk is moved rapidly through a circular path before the eye. See strobic circles, under strobic.—Stroboscopic disk, a disk under **Adisk.—Winged disk, in Egyptian art, the symbol of the sun, a complete circle, is represented with ing accurately adjusted quantities of mydriatic, myotic, and anesthetic alkaloids such as



utspread vulture's wings and the ureous on either side. The symbol was borrowed by the Assyrians to represent

disk (disk), v. t. [disk, n.] In agri., to cultivate with a disk-cultivator.

disk-carrier (disk'kar'i-er), n. In photom., the support of a disk or screen which is movable along or fixed to the photometer-bench, according to the style of the photometer.

disk-cultivator (disk'kul"ti-vā-tor), n. A cultivator in which the part applied to the soil consists of sharp-edged disks placed vertically and rolling with the progress of the cultivator. Its use is to cut the weeds and pulverize the soil. See *cultivator.

disk-cutter (disk'kut'er), n. A tool used by potters for cutting out disks of clay for making pie-plates. It consists of a wooden arm supported on one end by a small foot or block of wood, of circular or rectangular form, in which the arm revolves; at the other end is a metal point, usually a common horse-shoe nail, passing through the arm at a right angle, with the point down. The foot or block is placed on the rolled sheet of clay and held in place while the arm is revolved disp. An abbreviation of dispensatory.

by the hand of the workman, the metal point cutting out a perfect disk. This is afterward shaped over a convex mold to form the concave pie-plate.

disk-flower (disk'flou"er), n. A flower of the disk of a composite plant. See disk, 4 (c).

disk-jelly (disk'jel-i), n. A sea-blubber; a discomedusan.

disk-plow (disk'plou), n. A plow having revolving disks, resembling those in a

disk-harrow. in place of plow-shares. The action of this tool is not this tool is not precisely that of the plow, since the disks break up and tear apart as well as turn over the soil soil. disk-saw

(disk'så), n. A saw in the Rear View of Sulky Disk-plow. α , Cutaway plow disk in position for turning at end of furrow; δ , straight disk. form of a

disk, used for cutting rails or beams in the rolling-mill. Its cutting rails or Deams in the rolling-mill. Its cutting rim is either toothed or toothless. It is set in rapid rotation and the friction of the contact produces a heat sufficient to fuse the metal in contact with the disk as it revolves, even if the disk is softer in quality than the metal to be sawed. Also called fusion-disk.

disk-shell (disk'shel), n. The shell of certain

brachiopods, as Discina.

disk-valve, n. 2. Any valve in which the opening is closed by a disk, as in the ordinary stop-valve.

disk-wheel, n. 2. A type of wheel for cars or metar-values in the ordinary stop-valve.

lisk-wheel, n. 2. A type of wheel for cars or motor-vehicles in which the hub is con-nected to the rim by a continuous web or nected to the rim by a continuous web or plate, instead of by spokes with open intervals between. Such wheels appear to be solid disks. In car-wheels of this pattern the plates are of steel, bumped or dished to give lateral stiffness; or the plate is double with compressed card-board between. In motor-vehicles the disk is of thin steel, concaved to give elasticity by slight flexure of the plate under shock. Such wheels at high speed raise less dust than spoked wheels, and do not hum in moving through the air.

dislevelment (dis-lev'el-ment), n. from the level: as, a correction for dislevelment was made.

4. The territorial distribution dislocation, n. of an army.—Dislocation of the lens, displacement of the crystalline lens of the eye.

dislocatory (dis - lok 'a - tō - ri), a. dislocation or dislocations: as, dislocatory movements of the earth's crust.

disloyalist (dis-loi'al-ist), n. A disloyal or

disaffected person.

dismal, n. 6. pl. The blues; the dumps; a
state of gloominess or despondency: as, to be in the dismals.

dismantlement (dis-man'tl-ment), n. The act of dismantling or the state of being dismantled.

dismarket (dis-mär 'ket), v. t. To deprive

(asmarket) of its status and privileges.

(a market) of its status and privileges.

(dismissible (dis-mis'i-bl), a. Liable to be dismissed or discharged from office; removable.

(dismountable (dis-moun'ta-bl), a. That may be dismounted.—Dismountable gun. See *yyunl.

(discharel (dis-ā-hā'al) ** [discharel ** al] ** A.** disobeyal (dis-ō-bā'al), n. [disobey + -al.] An act of disobedience: as, disobeyal of an order of the court.

disobliger, n. 2. An English vehicle which was developed into the American track-sulky

was developed into the American track-sulky of the high-wheeled, springless type. disodic ($\bar{d}i \cdot s\bar{o}' dik$), a. $[di^2 + sod(ium) + -ic.]$ In chem., containing two atoms of sodium, as the common phosphate of soda of commerce, Na₂HPO₄.12H₂O. disomus ($\bar{d}i \cdot s\bar{o}'$ mus), n.; pl. disomi (-mi). [NL., $\langle Gr. \dot{\delta}i\sigma\omega\mu\sigma_{\zeta}$, having two bodies, $\langle \dot{\delta}\iota$, two-, $+\sigma\bar{\omega}\mu a$, body.] A monster with two bodies.

7. In logic, disagreement with disorder. n. every conceivable general rule whatever. It is impossible for a finite collection of objects to be in disorder in this sense, nor is it possible for a continuum to be in disorder. Whether or not it is possible for an infinite discrete collection to be in disorder is a question that has not been solved.

that has not been solved.

disorderly, a. II. n. A person accused or guilty of disorderly conduct.
disorientation (dis-ō'ri-en-tā'shon), n. [dis-+ orientation.] Loss of the ability to determine direction or to estimate correctly time and space. Lancet, June 25, 1904, p. 1808.
disoxidize (dis-ok'si-diz), v. t.; pret. and pp. disoxidized, ppr. disoxidizing. [dis-+ oxidize.] Same as deoxidize.
disp. An abbreviation of disnensatoru.

dispansive (dis-pan'siv), a. [L. dispansus, pp. of dispandere, spread out: see dispand.] In optics, serving to dispand or spread out: applied to a system of lenses which has a negative focal distance. Opposed to collective.

disparate, a. 2. In the psychology of sensa-tion, belonging to or derived from different senses (said of sensations); appealing to different senses (said of stimuli).

Diversion of the attention by disparate stimuli, when it occurs, is probably the more effective.

O. Külpe (trans.), Outlines of Psychol., p. 410.

Disparate points. See *point1.
dispendious (dis-pen'di-us), a. [L. dispendious, expensive, \(\) dispendium, expense, loss, \(\) dispendere, expend: see dispend.] Costly; expensive; extravagant; lavish: as, 'a dispendious use of material may in the end be true economy.'

dispense, v. t. 5. To put up (a medical prescription)

dispermic (di-sper'mik), a. [Gr. δι-, two-, + σπέρμα, seed, + -ic.] Affected with or pertaining to dispermy: said of eggs containing two

ing to dispermy: said of eggs containing two spermatozoa.

dispermin (di-sper'min), n. [Gr. $\delta\iota$ -, two-, + $\sigma\pi\dot{\epsilon}\rho\mu a$, seed, + $-in^2$.] Same as *piperazin. dispermy (di-sper'mi), n. [Gr. $\delta\iota$ -, two-, + $\sigma\pi\dot{\epsilon}\rho\mu a$, seed, + $-y^3$.] The entrance of two spermatozoa into a single egg. disperse, v. t. 6. In optics, to refract by amounts which vary with the wave-length of the refracted ray: separate a composite heam

the refracted ray; separate a composite beam

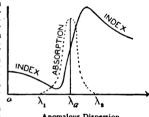
of light, into its components, forming a spectrum. See dispersion, 3.

dispersion, n. 3. (b) In physiol. optics, the blurring of the retinal image due to faulty accommodation.

The dispersion images indicate the position of the object as before or behind the object of distinct vision.

O. Külpe (trans.), Outlines of Psychol., p. 353.

6. In bot., the distribution of seeds and of plants by various means, as by the wind, by birds and



6. In bot., the distribution of seeds and of plants by various means, as by the wind, by birds and animals, etc.—Anomalous dispersion of light in which the direction is reversed, the refraction increasing with the wave-length instead of diminishing, as in ordinary cases. Anomalous dispersion is an accompaniment of selective absorption (see selective). It manifests itself only in the case of media having a large absorption coefficient, and in that region of the spectrum which is occupied by the absorption-band. In transparent substances the frequency of the light wave does not coincide with the natural frequency of vibration of the ions or particles of the refracting medium. In such cases the index of refraction in general diminishes as the wave-length of the light wave coincides with the vibration-frequency of the lightwave coincides with the vibration-frequency of the particles of the medium, there is a disturbance of this relation. In the case of bodies having strong selective absorption such as fuchsin, there is a disturbance of this relation. In the case of bodies having strong selective absorption with an increase of wave-length as the frequency of the light wave approached on the side toward the viocity followed by a sudden and very great rise in the value of the index for wave-length scorresponding to the absorption-band. On the side toward the value of the index of refraction are very great, but they diminish again rapidly as the wave-length increases. The variations in the index of refraction which occur in anomalous dispersion are abown graphically in the figure, in which has tes maximum at the wave-length have reases. The variations in the index of refraction which occur in anomalous dispersion of the absorption-band of the substance which has its maximum at the wave-length have presented by the vertical line in the diagram. For those protions of the spectrum lying between o and \(\bar{\cappa}\) and also beyond \(\bar{\cappa}\), where the values of the index shown in the curve, and it is in this regi

rors of observation as regards size, but without reference to size or direction. (b) The tendency of material particles or bodies, including conscious individuals, to go spart, as from a center; hence, in the phenomena of population, the continual breaking down and dispersing of aggregations, counteracting a tendency toward concentration. See law of *aggregation. L. F. Ward, Dynamic Sociol., L. 249.—Sellmeier's theory of dispersion, a theory of dispersion based upon the assumption that the particles of the refracting substance partiate of the vibratory motion of the ether. This theory, proposed by Sellmeier in 1870 was subsequently further developed by Helmholtz, Lommel, Ketteler, and others.

lispetal (dis-pet'al). v. t.: pret. and pp. dis-

dispetal (dis-pet'al), v. t.; pret. and pp. dispetaled, dispetalled, ppr. dispetaling, dispetalling. [dis-priv. + petal.] To strip (a flower) of its petals.

Here all is sunny, and when the truant gull Skims the green level of the lawn, his wing

R. L. Stevenson, Underwoods, I., Son, xxxv.

**R. L. Sievenson, Underwoods, I., Son. XXX.

A. J. Beresford-Hope, Eng. CatheA. J. Beresford-Hope, Eng. CatheA. Crystalline form of the sphenoid group of
A. Crystalline form of the sphenoid group of
A. Crystalline form of the sphenoid group of
A. Crystalline form of the sphenoid.
A. Crystalline form o

form two skeins, one for each of the daughter-

Action

Division of pollen-mother-cells in the lily as described by Guignard.

pristion of pollen-mother-cells in the lily as described by Guignard.
A, anaphase of the first division, showing the twelve daughterchromosomes on each side, the interzonal fibers stretching between
them, and the centrosomes, aiready double, at the spindle-poles;
B, later stage, showing the cell-plate at the equator of the spindle
and the daughter-spiremes (dispireme-stage of Fiemming); C, division completed, double centrosomes in the resting-cell; D, ensuing
division in progress, the upper cell at the close of the prophases,
the chromosomes and centrosomes still undivided, lower cell in the
late anaphase, cell-plate not yet formed. (From Wilson's "The
Cell.")

dispirous (dī-spī'rus), a. [Gr. δι-, two-, + σπείρα, coil, spiral.] Having double spirals: applied to the elaters of the Hepaticæ. Spruce. displacement, n. 3. In naval arch., displacement is the total weight of a vessel and of everything on board, which, in accordance with the laws of hydrostatics, is equal to the weight of the volume of water displaced by the vessel when affoat. It is usually given in long tons, and is ascertained by calculation, from the plans, of lines of the vessel for a series of mean drafts, in accordance with certain rules. The results of the calculations are then plotted in curves of displacement. See *κurve. Light displacement is that of the vessel without water, stores, provisions, ammunition, cal, or cargo. Load displacement, or normal displacement, in a warship, is that fixed by the designer as the average condition and includes the weight of coal, stores, ammunition, etc., considered to be the average amount to be carried. Deep cload displacement is that which corresponds to the full amount of coal, stores, ammunition, etc., which can be placed in the bunkers, storerooms, holds, and ammunition-rooms.

6. In veg. teratol., a malformation, in leaves, due to abnormal cohesion or fusion of parts which results in dislocation and other apparent changes in the form. Thus two fused leaves may appear like a single lobed leaf, a whorl may be reduced to two opposite leaves, etc. may be reduced to two opposite leaves, etc. Masters.—Angles of displacement, in physiol. optics, angles employed to determine the position of the foremost line of regard. The angle of vertical displacement measures the divergence of the plane of regard, up or down, from the primary position; the angle of lateral displacement is included between the foremost line of regard and the median line of the plane of regard.—Curve of displacement. See *curves of ship calculations.—Displacement lubricator, pump. See *lubricator, *pump!—Law of displacement, in phys., the law of the shifting, with temperature, of the wave-length of the maximum of the energy-curve for the emission-spectrum of a black body. Also called Paschen's law.—Wave of displacement. See *care!.

displacement-tonnage(dis-plās'ment-tun'āi).

displacement-tonnage(dis-plas'ment-tun'aj), n. In ship-building, the displacement of a ves-

sel measured in tons weight: distinguished from register-tonnage which is measured in conventional tons of 100 cubic feet.

Displacer piston. See *piston.
display, n. 2. In printing, the art of selecting and arranging types of unequal size, as in a title-page or advertisement, so as to make certain parts emphatic and the whole likely to attract attention.

display-man (dis-pla'man), n. An employee of the United States Weather Bureau whose

of the United States weather Eureau whose duty is to display the weather flag-signals, storm-signals, or other warnings.

display-pipe (dis-plā-pip), n. In organ-building, a pipe set in the front of the case and usually ornamented. Such pipes are sometimes those which sound, and sometimes mere dumnies. Also show-pipe.

displezure, n. A simplified spelling of dis-

plēasure.

displuviate (dis-plū'vi-āt), a. [L. displuviatus, displaylate (dis-pluvia, rain.] Protected from rain; provided with channels to carry off rain.

—Displaylate atrium. See **atrium.

dispope (dis-pōp'), v. t. To deprive of the popedom; depose as pope; unpope. Tenny-

Disporea (dī-spō'rē-ā), n. pl. [NL., < Gr. δι-, two-, + σπορά, seed (spore).] A group of Myzosporidia in which only 2 spores are produced in each trophozoite. They are parasitic forms, living freely as amobold organisms in the bile or urine of fishes and frogs. Also called *Disporocystidæ*.

disporous (di-spō'rus), a. [Gr. δι-, two-, + σπορά, seed (spore).] Having 2 spores: said of certain Coccidia; producing only 2 spores, as

some Myxosporidia.
disposability (dis-pō-za-bil'i-ti), n. The quality of being disposable: as, the disposability of

one's time, one's property, or the like.

disposition, n. 10. Specifically, in organ-building: (a) the plan or specification in accordance with which the whole instrument is built; (b) the arrangement of the visible parts of the instrument, as of the displaying the acceptable desired. pipes, the case, the desk or console, the stops, pipes, the case, the desk or console, the stops, etc.—Bond and disposition in security. See *bond1.—Physiological disposition, a tendency of certain organs or tissues to respond in definite ways to certain actions upon them.—Psychoical disposition, a natural tendency of the mind to present certain definite kinds of phenomena under definite kinds of circumstances.—Psychophysical disposition, a tendency to the production of a certain kind of consciousness in response to certain kinds of physical stimulation; also a tendency to the production of certain physical effects in response to certain mental activities.

dispossessory (dis-po-zes'sō-ri), a. [dispossess +-ory.] Relating to or involving dispossession or eviction: as, a dispossessory war-

dispriest (dis-prēst'), v. t. To deprive of the status of priest. Same as unfrock. N. E. D. disputably (dis-pu'ta-bli), adv. With some possibility of dispute; with less certainty; questionably.

Linus and Thamyris, and, more disputably, Orpheus, are . . precursors of Homer. Bulwer, Athena, I. 279.

disquiparant (dis-kwip'a-rant), a. and n. [dis-+(e)quiparant.] I. a. Belonging to a disquiparance.

 Π . n. An object so related to a second that the latter is in a different relation to it. Thus, a husband is a disquiparant, a spouse an equip-

disquisitionist (dis-kwi-zish'on-ist), n. The author of a disquisition. Bagehot.

disquisitor (dis-kwiz'i-tor), n. The author of

a disquisition: a disquisitionist. disregardant (dis-re-gard'ant), a. no heed or attention; disregardful. That pays disruptionist (dis-rup'shon-ist), n. [disruption

+ ist.] One who disrupts or favors disruption; specifically, one of those who seceded from the Established Church of Scotland in 1843 and founded the Free Church of Scotland. See dis-

founded the Free Church of Scotland. See dis-ruption of the Scottish Church, under disruption. Disruptive strength. See *strength. disruptment (dis-rupt'ment), n. [disrupt + -ment.] The process of breaking off; disruption. disruptor (dis-rup'tor), n. A high explosive: so named because the effect of such explosives is to separate forcibly surrounding matter into small particles rather than to propel it to a dis-tance. tance.

An abbreviation of dissertation. diss. dissect, c. t. 4. In gcol., to cut up or erode (a plateau, mountain, etc.) into numerous irregu-



Dissected Mountain-range, Utah.

lar valleys or ravines: as, a dissected plateau; a dissected mountain-range.

An excellent illustration of a well dissected upland is found in the Ozark plateau of southern Missouri.

W. M. Davis, Elem. Phys. Geog., p. 278.

To dissect out, in surg., to remove entire by a process of dissection without injuring or removing any of the surrounding tissues.

dissecting-knife (di-sek'ting-nif), n. A scal-

dissecting-knife (di-sek'ting-nif), n. A scalpel.
dissecting-wound (di-sek'ting-wönd), n. Same as dissection-wound (which see, under wound.)
dissection, n. 5. In bot., the condition of being dissected.—6. In geol., the erosion of a land-surface into numerous irregular valleys. See *dissect, 4.—Dissection tubercle. Same as anatomical tubercle (which see, under tubercle).

dissoizin, n.—Fresh disseixin, in law, a disseizin accomplished within the time in which the disseize might of his own accord and by his own power, without the assistance of the king, or legal process, reënter and defeat the disseizin.

disseminule (di-sem'i-nul), n. [Irreg. < L. dissemin-are, disseminate, + -ule.] In phytogeog., the body by which a plant is propagated, whether seed, spore, offshoot, etc., or the whole plant.

Disseminules designed to pass through a resting period re often brought into conditions where they germinate t once.

F. E. Clements, Bot. Surv. Neb., VII. 51.

dissentientism (di-sen'shent-izm), n. The

dissentientism (di-sen'shent-1zm), n. The principles or conduct of a dissentient.

Dissentis type. See *type.
dissight (dis'sit), n. [dis- + sight.] An unsightly thing; an eyesore. Southey. [Rare.] dissimilar, a. 2. In bot., having different forms in the same individual, as the anthers

in the genus Cassia.

dissimilate, v. t.—Dissimilated gemination. See

**demination.*

dissimilatory (di-sim'i-la-tō-ri), a. Produced by dissimilation. **Scripture*, Exper. Phonetics.

p. 203. dissimulative (di-sim'ū-lā-tiv), a. Relating to or characterized by pretense or dissimula-tion: as, a dissimulative life; dissimulative arts.

Dissipation of energy. See *energy. dissipator (dis'i-pā-tor), n. One who or that dissipator (dis'i-pā-tor), n. One who or that which dissipates.— Electric dissipator, an instrument devised by Elster and Geitel for showing the relative number of electrified particles or electrons in the atmosphere at any place. It consists of a metallic body connected with the gold-leaf electroscope or equivalent electrometer. The metal body is first charged with a definite charge of electricity from some independent source. The rate at which this charge is neutralized by atmospheric electricity or free electrons is shown by the index of the electroscope.

dissociality (di-sō-shi-al'i-ti), n. The quality of being dissocial or unsocial. Carlyle.

dissociant (di-sō'shi-ant), a. and n. [L. dis-

[L. disdissociant (di-sō'shi-ant), a. and n. [L. dissocian(t-)s, ppr. of dissociare, dissociate.] I. a. In chem., producing dissociation: as, the dissociation and the dissociation is a significant dissociation. sociant temperature. Trans. Amer. Inst. Elect. Engin., Jan.-July, 1902, p. 284.

II. n. That which dissociates; a dissociating

agent.

Dissociants in order of power: water, formic acid, methyl alcohol, ethyl alcohol. There are other dissociants, but the above are among the most common and generally employed.

Sci. Amer. Sup., Dec. 31, 1904, p. 24,242.

dissociate, v. II. intrans. To undergo dissociation; of an electrolyte in solution, to separate into ions some possessing positive and some negative electric charges, and capable of conveying an electric current by their motion through the solution with these charges.

With the exception of some bare statements to the effect that the yellow oxide, on heating, changes to the red, and that it dissociates at a lower temperature, the foregoing is all that has come to my notice which in any bears on the subject.

Amer. Chem. Jour., April, 1903, p. 321.

dissociation, n. 3. In psychol.: (a) The dis-

junction of an associative connection, as by lapse of memory or by intercurrent associa-tions, by the selective process of active atten-

what is associated now with one thing and now with another tends to become dissociated from either.

One might call this the law of dissociation by varying concomitants.

W. James, Prin. of Psychol., I. 506.

The part played by dissociation is evident. If there were no such breaking up of representations, imagination would be simply memory.

J. M. Baldwin, Handbook of Psychol., L 218.

A minor degree of the disintegration or disaggregation of consciousness, as it is termed, which culminates in the phenomena of dual or multiple personality.

If we . . . seek for some quality common to all the various states in which hallucinations occur, we shall find that their most striking characteristic is the dissociation of consciousness.

E. Parish, Hallucinations and Illusions, p. 71.

various states in which hallucinations occur, we shall find that their most striking characteristic is the dissociation of consciousness.

E. Parish, Hallucinations and Illusions, p. 71.

Arrhenius's theory of electrolytic or ionic dissociation. During the earlier half of the nineteenth century it was supposed that the electropositive and electronegative atoms in a dissolved compound were definitely combined, and that in electrolysis they did not part company until they were forcibly torn apart by the electric current. About the middle of the century it was found that if we eliminate the complication of polarization at the electrodes, a current through an electrolyte can be obtained by using even the smallest electromotive force; it was therefore obvious that the current is not concerned with tearing apart firmly combined ions. Clausius accordingly made the assumption that in a solution of an electrolyte an exchange of atoms between neighboring molecules is constantly going on, in such a way that some free ions constantly exist in solution; that is, that dissociation into ions exists, the amount of which was considered to be very small. The hypothesis of Arrhenius is, that a considerable number of the molecules of an electrolyte in aqueous solution are at all times dissociated into ions, and he supported this hypothesis with considerations derived from facts of two different kinds. One is the fact that, if we make a solution containing a certain number of molecules of an electrolyte (say one hundred molecules of a nelectrolyte (say one hundred molecules of the solid have become nearly or quite two hundred molecules of the solid have become nearly or quite two hundred molecules of the solid have become nearly or quite two hundred molecules of the lowering of the reasonable of the solution of the ions must be assumed in order to explain this phenomenon of electrolytic conduction exists whether the electric current is passing or not; that is, the molecules of the solution, with the observed central the object of

dissoconch (dis'ō-konk), n. [Gr. δισσός, two-fold, + κόγχη, a shell.] The shell of a veliger or larval mollusk.

disageny (di-soj'e-ni), n. [Gr. dissós, two-fold, + -yenns, producing.] In zoöl., a form of reproduction among the Ctenophora, characterized by the presence of two periods of sexual maturity, one in the larval, the other in the adult form of the same individual.

dissogonous (di-sog'ō-nus), a. [NL. *dissogo-nus, < Gr. baoóc, twofold, + yóvoc, offspring.] Same as pedogenetic.

dissogony (dis-sog'ō-ni), n. [NL. *dissogonia, (*dissogenus: see dissogonous.] Same as pedo-1enesis

dissolution, n.—Space of dissolution, in rocks, a cavity or space formed by the solvent action of circulating water or other corroding agent: contrasted with space of *discission.

dissolutionism (dis-ō-lū'shon-izm), n. Anarchism or nihilism.

Coarseness is contrary, vulgarity is contradictory to elegance just as in politics the monarchical principle is contrary, but the principle—if any such principle there be—of disunionism, dissolutionism, or communalism, . . . is contrary to the republican principle.

Swinburne, in The Forum, Oct., 1891, p. 180.

dissolutionist (dis-\(\bar{o}\)-l\(\bar{u}'\)shon-ist), n. One who advocates or aims at dissolution or dissolu-

dissolutive, a. 2. Pertaining to or characterized by dissolution or disintegration.

Much of the content is certainly rubbish, matter that Myers calls dissolutive, stuff that dreams are made of, fragments of lapsed memory, mechanical effects of habit and ordinary suggestion.

W. James, in Proc. Soc. Psychical Research, XVII. 20.

dissolv, v. A simplified spelling of dissolve.

dissolver, n. 2. In paper-making and other industries, a machine for dissolving, purifying, freeing from acids, and otherwise treating salts, chemicals, clays, colors, and paper pulp salts, chemicals, clays, colors, and paper pulp in water or other liquids. It consists of a large metal vessel having a bowl-shaped bottom and fitted with a horizontal turbine supported by an upright spindle passing through the bottom of the vessel. The clay, colors, chemicals, or other materials to be treated are placed in the vessel with the required amount of water to give the desired mixture or solution. By means of a belt to a pulley on the spindle the turbine is revolved at a high speed. This sets up a rapid motion in the liquid, drawing it downward in the center into the turbine and throwing it violently outward from the turbine against the sides of the vessel. The concave sides cause the liquid to move upward in a spiral path till again swept downward through the wheel. The rapid motion and attritton against the sides of the vessel disintegrate and dissolve the material, insoluble matter falling to the bottom and the solution being then drawn off.

dissonance, n.— Pure dissonance, in acoustics, dissonance in which the relation of the frequencies of the dissonant tones is such that the harshness due to rapid tonal beats is absent.

dissonate (dis'ō-nāt), v. i. [L., dissonare: see dissonant.] To be dissonant or harsh: said of sounds.

dissonating (dis'o-nat-ing), p. a. Same as dissonant

dissophyte (dis'o-fit), n. [Gr. δισσός, double, + φυτόν, plant.] In phytogeog., a plant of which the subterranean parts are adapted to mesophytic or even hydrophytic conditions, and the aerial parts to xerophytic conditions.

Such plants grow on alpine gravel-slides, sand-bars, strands, etc. F. E. Clements, Bot. Surv. Neb., VII. 24

dissophytic (dis-ō-fit'ik), a. [dissophyte + -ic.]

Having the character of or in some way related to dissophytes. F. E. Clements.

dissymmetrically (dis-si-met'ri-kal-i), adv.
In a dissymmetry, n. 2. Symmetry between two objects, with respect to a plane of symmetry, as between the right and left hands, or between right and left hands, or between right and left hands, or between right and left hands, or between

right and left crystals of tartaric acid.
distaf, n. A simplified spelling of distaff.
distaff, n.—Descent by distaff, maternal descent.
See distaff side, under distaff.—Prigg's distaff [Sw. Friggerocken], a former Swedish name for the constellation of Orion.

Distal ligation. See *ligation.
distalia (dis-tā'li ā), n. pl. [NL., neut. pl. of *distalis, distal.] A collective term for the bones of the third or distal, row of the carpus

and tarsus. distance, n. 9. In psychol., extension in the third dimension; spatial depth.

An object is before us, and our perception of it as an object is at once associatively supplemented by the idea of its distance.

E. B. Titchener, Outline of Psychol., p. 204.

10. In painting, remoteness of objects as indicated by increased delicacy and harmony of color.

COLOT.

If Philip de Koninck is his [Jacob van Rüysdael's] equal in the presentment of immensity of distance, he is left far behind by Rüysdael's atmospheric achievements.

Burlington Mag., IL 59.

Burlington Mag., II. 59.

Bistance circle, scale, sense. See *circle, *scale3, *keense1.— Interobjective distance, the distance between the centers of the pupils of the two eyes in the primary position: to this distance opera-glasses and other binocular instruments are set.— Interocular distance, the distance between the eyepieces of a binocular instrument, as a field-glass.—Out of distance, beyond reach; too far away.—Principal distance. See perspective, n., 3.— Striking distance, the distance through which a disturptive discharge will pass. See electre-park, under spark.—To know one's distance, to know what distance should be kept in one's relations or intercourse with others.

with others.
distance-flag (dis'tans-flag), n. In horse-racing, the flag held by the man stationed at the distance-post. See distance, 3. distance-language (dis'tans-lang'gwaj), n.

A mode of communicating with distant persons or places.

Man [in the evolution of language] . . . from signs went on to sounds—he invented the telephone. By all the traditions of Evolution this marvellous instrument ought to be, and is even now on the verge of becoming, the vehicle of the distance-language of the future.

H. Drummond, Ascent of Man, p. 183.

distance-measurer (dis'tans-mezh'ur-er), n. 'An instrument for determining distances; an angulometer or a telemeter.

distance-rod (dis'tans-rod), n. A reach-rod; a rod which holds two parts of a machine a fixed distance apart.

distance-stand (dis'tans-stand), n. The stand

distance-stand (distans-stand), n. The stand at the distance-post of a race-course distannic (di-stan'ik), a. [di-2+L...stannum, tin, +-ic.] In chem., containing two atoms of tin: as, distannic tetraethides ($\operatorname{Sn}_2(\operatorname{C}_2H_5)_4$). distater (di'stā-ter), n. [Gr. $\delta\iota$ -, two-, + $\sigma\tau ar\eta \rho$, stater.] An ancient Greek gold coin of the value of 2 staters.

distearoglycerophosphate (dī-stē'a-rō-glis'ero-fos'fat), n. [di-2 + stear(ic) + glycer(ine) + phosphate.] Glycerin-phosphoric acid in which two of the glycerin-hydroxyl groups are replaced by two stearic-acid radicals. In combination with choline, namely, as distearyl lecithin, distearoglycerine phosphoric acid is found as the predominating glycerophosphate of the animal lecithins.

distearyl (dī-stē'a-ril), a. [di-2 + stearyl.]

Noting a substance that contains two stearyl

roups.

distegous (dis tē-gus), a. [Gr. δίστεγος, of two stories, ζ δι-, two-, + στέγος, cover, roof.] Said of fishes in which a myodome is present, and the cranial cavity is thus double-floored.

and the cranial cavity is thus double-floored.

distemper¹, n.—Choking distemper, a disease of horses thought to be produced by eating musty hay. See forage *potsoning.

distensile (dis-ten'sil), a. [L. distensus, pp. of distendere, distend, + -ile.] Same as distensible. Encyc. Brit., XXXI. 560.

distichal (dis'ti-kal), n. [As distich + -al.]

One of the first duplicating plates of the radial series in the calyx of a crinoid, preceded below by the costals and followed by the palmars.

distigmatic (di-stig-mat'ik), a. [Gr. de-t. two-

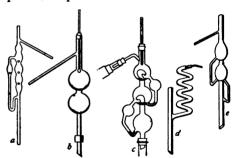
distigmatic (dī-stig-mat'ik), a. [Gr. $\delta \iota$ -, two-, + $\sigma \tau \iota \gamma \mu a$, mark: see stigma.] In bot., having two stigmas.

distillation, n.—Vacuum distillation, in phys. chem., the distillation of a substance under diminished pressure, so as to lower the temperature required for ebullition: often used to prevent decomposition of the substance by the higher temperature required for ebullition at atmospheric pressure.

Perhaps the two greatest aids to manufacturing pharmacy are vacuum distillation and centrifugal extraction. The former has long been in use, but the latter has only come into general use in this country during the past fifteen years. Sci. Amer. Sup., Jan. 24, 1908, p. 22,631.

distiller. n. 2. An apparatus for distilling water. On shipboard such apparatus for distilling water. On shipboard such apparatus is used to supply fresh water for drinking and washing, and for use in the boilers. A coil of boiler steam is placed in a tank of seawater and the distillate caught and cooled. The deposited salt is removed at intervals as the solution of seawater grows concentrated. For drinking, the distilled water is subsequently aërated.

distilling-tube (dis-til'ing-tūb'), n. An apparatus adapted to the fractional distillation



a, Glinsky's distilling-tube; b, Wurtz's distilling-tube; c, Volney's distilling-tube; d, Hart's distilling-tube; c, Lebel and Henninger's distilling-tube.

of liquids, permitting only the vapor of that one to pass over whose boiling-point is shown by the thermometer. Such tubes are also frequently used to prevent spray from passing

distinctive, a. II. n. A distinctive mark; specifically, in *Heb. gram.*, a distinctive accent. There are 26 of these—18 disjunctive and 8 conjunctive.

distingué (dis-tan-gā'), a. [F., pp. of distin-quer, distinguish.] Distinguished, especially in appearance or bearing; characterized by air of distinction.

distinguished, p.a.—Distinguished Service Order.

See *order.

Distoma lanceolatum, a fluke occasionally found in the bile-ducts of herbivorous animals and of man.—Distoma pulmonale or Ringeri, a fluke which infests the bronchlal tubes, causing a severe pulmonary discase, in the natives of Northern China, Korea, and Japan.—Distoma westermanni, a fluke which occasionally infests the lungs of domestic animals, and, very rarely, of man.

Distomatidæ (dis"tō-mat'i-dō), n. pl. [NL., < Distomum (Distoma (distomat-)), + -idæ.] A family of trematoid Platyhelminthes, of the order Malaccophilm. They are disceptife torms with

order Malacocotylea. They are digenetic forms with

2 suckers, the posterior being on the ventral surface, and the genital opening usually median, ventral, and in the anterior third of the body. The forms included are parasitic in the alimentary canal and its appendages and in the blood-vessels of vertebrates. The family consists of the genera Distoma, Rhopalophorus, Kælikeria, and Bilharzia.

distomatosis (dis'tō-ma-tō'sis), n. [NL., < Distoma(t-) + -osis.] In med., infection with trematoid worms. In man this occurs in four chief forms: hepatic distomatosis, with secondary pancreatic and intestinal infections in some cases, caused by Fascicla, Dicrocælium, and Opisthorchis; intestinal distomatosis, caused by Fasciolopsia, Heterophyes, Gastrodiscus, and Balanorchis; pulmonary distomatosis, with secondary cerebral symptoms in some cases, caused by Paragonimus westermani; venal distomatosis, caused by Schistosoma.

distomatous (dī-stom'a-tus), a. [Gr. $\delta\iota$ -, two-+ $\sigma \iota \delta \mu a(\tau$ -), mouth, + -ous.] Provided with two mouth-like structures, like *Distoma* among the trematode worms.

distome (dis'tōm), n. An individual of the genus Distoma or of the family Distomidæ.—

Eye distome, Agamodistomum ophthalmobium (Diesing, 1860), an immature, probably erratic distome, reported as parasitic in the human eye.

Distomes, n. pl. 2. A group or tribe of mastigophorous *Protozoa*, of the order *Polymasti*gida, having the flagella separated into two symmetrical groups, with a mouth-area at the base of each group (whence the name). It includes the genera Trigonomonas, Hexamitus, Trepomonas, Spironema, and Urophagus.—3. Same as *Malaccootylea.

distomian (dis-to'mi-an), n. One of the *Distomidæ.

distomiasis (dis'tō-mi-ā'sis), n. [NL. distoma + -iasis.] A morbid state which results from [NL. distoma the presence in the body of one of the species of Distoma or flukes. See *distomatosis.

distomid (dis'tō-mid), n. A *distome.

distomoid (dis'tō-moid), a. [Gr. \delta_i-, two-, + \sigma_i\text{a}_i\text{m}

distortional (dis-tor'shon-al), a. [distortion + -all.] Of or pertaining to distortion or change of form under stress.—Distortional wave, a wave in an elastic solid due to the sudden application of a shearing or torsional stress.

distortionist (dis-tôr'shon-ist), n. A contortionist

distortionless (dis-tôr'shon-les), a. [distortion -less.] Free from the phenomena of distortion.

distraction, n. 11. In surg., the act of pulling upon the segments of a limb so as to cause a separation of the opposing joint-surfaces. distrainee (dis-trā-nē'), n. In law, one whose property has been taken by distress. distrib. An abbreviation (a) of distributed;

(b) of distributive.

distribuend (distribuend'), n. [L. distribuendus, gerundive of distribuere, distribute.]
That which is to be distributed. H. Sidgwick.
distributary, a. H. n. In phys. geog., an outflowing branch of a river, such as occurs characteristically on a delta.

distribute, v. t.—Distributed vector. Se—Distributing post-office. See *post-office. See *vector.

distributee (dis-trib-ū-tē'), n. [distribute + -ee¹.] In law, one legally entitled to a share of the personal estate of an intestate.

distributer, n. 2. In printing, the appliance in a linotype machine which returns to the magazine for re-use the matrices which have been used in composition and casting.-In elect., a panel, pillar or small switchboard by means of which the various circuits for a building or suite of rooms are connected to the mains. distributer-bar (dis-trib'ū-ter-bar), n.

printing, a bar in a linotype machine which has a series of tracks and combinations upon which the used matrices are carried to their proper position for distribution in the magazine. Also called distributing-bar. distributing-bar (distributing-bar), n. Same

*distributer-bar.

distributing-table (dis-trib'ū-ting-tā'bl), n.
In printing, a surface of metal upon which inking-rollers distribute printing-ink. It is usually a part of the printing-machine. For the handpress it is a separate attachment.

press it is a separate attachment.

distribution, n.—Bipolar distribution, the occurrence in both polar regions of organisms, mostly marine, which are not known to occur in the tropics.—Bipolar theory of distribution of species. See *bipolar.—Canonical distribution. See *canonical.—Combinational distribution. to distribution obtained in the combinations presented by games of chance.—Curve of distribution. Same as Quietelet* *curve.—Discontinuous distribution, the occurrence in widely separated regions or geological formations of organisms or of the

disvulnerability

remains of organisms which are not known to inhabit the intervening area, nor the intervening formations. See *bipolarity.—Geological distribution, the vertical range, through successive rock strata, of extinct fauna and floras, or of the species constituting such assemblages: contrasted with *geographical distribution* or the contemporaneous distribution of such organisms, living or extinct.—Horizontal distribution, the distribution of organisms considered as ranging over the earth or through the sea horizontally, as distinguished from their distribution in altitude.—Microcanonical distribution in phase of part of a canonical ensemble when the difference of the limiting energies is indefinitely diminished.

From a certain point of view the microcanonical dis-

From a certain point of view the microcanonical dis-ibution may seem more simple than the canonical. J. W. Gibbs, Statistical Mech., p. 116.

Normal distribution, the conformity of statistical events to the mathematical law of error.

The regression curve between pairs of blood relations... is within the limits of random sampling linear. This had already been suggested by Galton on the basis of the theory of normal distribution.

Biometrika, Nov., 1903, p. 396.

Biometrika, Nov., 1903, p. 395.
Vertical distribution, the distribution of organisms in altitude on the one hand from sea-level to the tops of mountains and on the other from the sea-level to the bottom of the sea; bathymetrical as distinguished from horizontal distribution.

Distributional area, the entire territory over which a given animal, or group of animals, is distributed. It need not be a continuous distribution: thus southern Europe is the distributional area of the chamois, although the animal is confined to a few mountain ranges which form its station.

distribution-valve (dis-tri-bū'shon-valv"), n. The main slide-valve in an engine which has a double valve or Meyer valve. It is so named to distinguish it from the expansion-valve which rides on the back of the main or distribution-valve.

Distributive fault, justice. See *fault,

Distributive fault, justice.

district. n. 3. A subdivision of an English county with its own elective council charged chiefly with jurisdiction in sanitary matters. These districts are classed as 'urban' and 'rural' according as they lie within or without a borough or city.—District formation. Same as climatic *formation.—Forecast district, in meteor., a district for which a weather forecast is made. The United States is divided into forecast districts, with rather arbitrary boundaries, for the convenience of the official forecasters. These are New England, the West Gulf district, the North Central district, the Rocky Mountain district, the South Pacific district, and the North Pacific district, Regions not included in these belong to the Washington forecast district. The forecasts emanating from the forecast division at Washington are sent to the district forecasters at Boston, New Orleans, Chicago, Denver, San Francisco, and Portland, Oregon, and distributed by telegraph, telephone, and mail, daily, through these respective forecast districts. disturbance, n. 6. In astron., same as perturbation; the deviation of a body from the elliptical orbit it would otherwise pursue, caused by the attraction of bodies other than with its own elective council charged chiefly

the primary.— Disturbance of patronage, in old Eng. law, the act of a patron by which he sought to pre-vent the presentation of his clerk to a benefice.

disturbant, a. II. n. In law, same as dis-

turber. disturnpike (dis-tern'pik), v. t.; pret. and pp. disturnpiked, ppr. disturnpiking. [dis-+ turn-pike, n.] To convert (a turnpike) into an ordipure, n., 1 to convert (a turnpixe) into an ordinary highway by the legal removal of toll-gates; free (a road) from tolls. distylous (di-sti'lus), a. [Gr. δt -, two-, + $\sigma \bar{\tau} b / o c$, pillar: see $style^2$.] In bot., having two styles

styles

disubstituted (dī-sub'sti-tū-ted), a. [di-2 + substituted.] Noting compounds in which two hydrogen atoms are replaced by other atoms or radicals. See substitution, 6.

disulphid, n.— Carbon disulphid. See bisulphid of carbon.—Hydrogen disulphid. See *hydrogen.
disulphonic(di-sul-fon'ik), a. [di-2 + sulph(ur)] + -n + -ic.] In chem., containing the sulpho group of atoms, HSO₃ or HO.SO₂, twice in union with carbon: as, anthraquinone disulphonic acid, $C_{14}H_{6}O_{2}(HSO_{3})_{2}$, used in the manufacture of artificial alizarin.

disulphuret (dī-sul'fū-ret), n. [di-2 + sulphu-

ret.] Same as bisulphuret.

disulphuryl (dī-sul'fū-ril), a. [di-2 + sulphur + -yl.] In chem., containing the group of atoms known as sulphuryl, SO₂, twice: as, disulphuryl chlorid or oxychlorid, (SO₂)OCl₂.

disunite, v. II. intrans. Of a horse, in galloping, to move the left hind leg immediately after the right for leg.

ing, to move the left hind leg immediately after the right fore leg, or vice versa.

disvulnerability (dis-vul'ne-ra-bil'i-ti), n. [disvulnerable + -ity.] The quality possessed by some persons of a rude physical type of being comparatively difficult to wound seriously, that is, of recovering easily from wounds or injuries. or injuries.

This insensibility shows itself also in disculnerability, or rapid recovery from wounds, first pointed out by Benédikt, which appears to be a frequently observed phenomenon among criminals. H. Ellis, The Criminal, p. 113.

Defectives are lacking in sympathy partly, at least, be-ause they are insensitive, analgesic, and more or less isvulnerable.

lisvulnerable. Amer. Jour. Relig. Psychol. and Educ., May, 1904, p. 34.

dita (dē'tä), n. [Tagalog dita.] In the Philippines, a tree, Pala scholaris, belonging to the Apocynaceæ, which yields a valuable medicinal bark. See devil-tree and dita-bark.

ditaine (dē'ta-in), n. [dita + -ine².] A colorless, bitter alkaloid, C₂₂H₂₈O₄N₂.4H₂O, contained in dita-bark, Echites scholaris L. (Alstonia scholaris Brown), from the Philippines, which crystallizes in thick, glassy, lustrous prisms. It is used as a febrifuge. Also called

ditamine (dit'a-min), n. [dita + amine.] An amorphous alkaloid, $C_{19}H_{19}NO_2$, contained in dita-bark from the Philippines. It melts at

75° C.

ditch, n.—Behind-the-Ditch, The Devil's Ditch or Dike. See The ★Ditch.—The Ditch, a large prehistoric embankment near the race-course of Newmarket, England. It is 4 to 5 miles long, 18 to 20 feet high, and 100 feet broad on top, and has a slope of 50 feet on the southwest side. It separates the race-course proper from another, known as "Behind-the-Ditch," where certain races are also run. Also known as the Devil's Ditch or Dike.—To put under the ditch, to intersect with ditches or trenches for irrigation purposes. [U. 8.]

ditcher. n. 2. A ditch-machine. -3. In lawnbowls, a ball which runs off the field of play into

the surrounding gutter or ditch. ditching-plow (dich'ing-plou), n. A strong, heavy plow used in loosening the earth at the bottom of ditches.

ditch-machine (dich'ma-shēn'), n. A machine for digging ditches or excavating trenches. ditch-moss (dich'môs), n. The water-weed or

water-thyme, Philotria Canadensis.

ditch-rider (dich'ri'der), n. A man, who is employed to ride along and inspect all parts of an irrigation-canal or ditch and to give especial attention to the distribution of water and the prevention of waste. F. H. Newell, Irrigation in U. S., p. 107.

diterebene (dī-ter'ē-bēn), n. Same as *diter-

diterpene (dī-ter'pēn), n. A terpene having the formula C₂₀H₃₂.
ditesseral (dī-tes'e-ral), a. [Gr. d.-, two-, +
L. tessera, a small square or cube: see tessera.]
Having two small squares or cubes: noting

certain symmetry classes belonging to the isometric system. See symmetry.

ditetragonal. (di-te-trag o-nal), a. [di-2 + tetragonal.] In crystal.: (a) Twice four-angled or twice four-sided: said of the eight-faced prism and eight-faced pyramid (or double out.) pyramid) of the tetragonal system. (b) Noting a type of symmetry characterized by a tetrad axis (that is, one of tetragonal or fourfold symmetry) in which four planes of symmetry See *symmetry. intersect

dithallious (di-thal'i-us), a. [di-2 + thalli-um + -ous.] In chem., containing two atoms of the metal thallium.

dithionate (di-thi'ō-nāt), n. [dithion(ic) + -ate¹.] In chem., a salt of dithionic acid: as, sodium dithionate, Na₂S₂O₆ (formerly called

hyposulphate).

hyposulphate).

Dithyrocaris (dith'i-rō-kā'ris), n. [Gr. δ_i -, divergence, n. 4. In bot., gradual separation double, $+\theta \nu \rho a$, a door, $+\kappa a \rho \nu c$, (prob.) a shrimp.] A genus of crustaceans of the order Phyllocarida, having a bivalved carapace ridged medially and at the sides, and several free segments, the last bearing two cercopods articulated to the telson. It occurs in the Devonian (and Carboniferous formations.

See *globe.

divergence, n. 4. In bot., gradual separation during the process of lengthening, as in the with growth. See *divergence, 4. (divergent) the control of the process of lengthening, as in the divergent, a. 4. In bot., gradual separation during the process of lengthening, as in the with growth. See *divergence, 1. (divergent) the process of lengthening, as in the given growth. See *divergence, 1. (divergent) the process of lengthening, as in the given growth. See *divergence, 1. (divergent) the process of lengthening, as in the given growth. See *divergence, 1. (divergent) the process of lengthening, as in the given growth. See *divergence, 1. (divergent) the process of lengthening, as in the given growth. See *divergence, 1. (divergent) the process of lengthening, as in the given growth. See *divergence, 1. (divergent) the process of lengthening as in the growth. See *divergence, 1. (divergent) the process of lengthening as in the growth. See *divergence, 1. (divergent) the process of lengthening as in the growth. See *divergence, n. 4. In bot., gradually separation divergent, and the process of lengthening as in the growth. See *divergence, 1. (divergent) the process of lengthening as in the growth growth. See *divergence, 1. (divergent) the process of lengthening as in the growth growt ments, the last bearing two cercopods articulated to the telson. It occurs in the Devonian and Carboniferous formations.

as some worms.

di-tri-. An elliptic combination of di- + tri-, diversicolored (di-ver-si-kul'ord), a. Or variemeaning either 'di- or tri-' or 'di- and tri-': as, ous or varied colors.

di-trichotomous (= 'dichotomous or trichoto- diversifiorate (di-ver-si-fio'rat), a. [L. diversus, diverse, + flos (flor-), flower.] Same as

In a ditrichotomous manner.

ditrichotriæne (di'trik- $\bar{0}$ -tri' $\bar{0}$ n), n. [Gr. $\delta \iota$ -, double, $+\tau \rho i \chi a$, threefold, $+\tau \rho i \alpha u a$, a trident.] In the nomenclature of the spicular elements of sponges, a trichotriæne in which dentily a trichotriæne in which a call.] Relating, pertaining to, or used in districtions. the subsidiary branches are also forked.

ditriglyphal (dī-trī'gli-fal), a. Same as *ditri-

disvulnerable (dis-vul'ne-ra-bl), a. [dis- + vulnerable.] Possessing the faculty of being difficult to wound severely, that is, of being able to recover easily from wounds; not easily vulnerable (as to consequences of wounds).

distriglyphic (di-tri-glif'ik), a. [ditriglyph + -ic.] Pertaining to or characterized by the presence of ditriglyphs: said of an arrangement of the Doric order which, by widening the intercolumniation, necessitates the use of two triglyphs between the columns instead of one. See ditriglyph.

ditrigonal, a. 2. Noting a type of symmetry characterized by a trigonal axis (that is, one of threefold symmetry), in which axis three planes of symmetry intersect. See *symmetry. ditrigonally (dī-trig'ō-nal-i), adv. In a ditrigo-

nal manner

ditties (dit'ez), n. pl. [Detached from ditty-bag.] Any fabrics suitable for making ditty-

bag.] Any fabrics suitable for making ditty-bags for sailors' use: used only in the plural. dittogram (dit'ō-gram), n. [Gr. διττός, double, + γράμμα, a writing.] Same as *dittograph. dittograph (dit'ō-grāf), n. [Gr. διττός, double, + γράφειν, write.] An instance of dittography; a letter, syllable, word, or series of words, mechanically and unconsciously repeated by a convict. Also dittogram. copyist. Also dittogram.

dittographic (dit-ō-graf'ik), a. Of the nature of a dittograph.

Dittrich's plugs. See *plug.

diureide (di-u'rē-id), n. [di-2 + ureide.] One of a class of organic compounds, such as urio acid, which contain two ureide radicals in the molecule. These substances are of interest in connection with the metabolism of birds and reptiles, which excrete their nitrogenous material largely in the form of

diuretic, n.—Cardiac diuretic, a remedy which produces diurests indirectly by increasing the force and efficiency of the heart-beats.—Saline diuretic, a salt of sodium or potassium which increases the urinary secretion.

diuretin (di-ū-rē'tin), n. [diuret-ic + -in².]
The proprietary name of a compound of sodium salicylate and sodium theobromine which possesses marked diuretic properties.

Diurnal revolution, sleep, variation. See *revolution, *sleep, *variation.

*revolution, *sleep, *variation. See *revolution, *sleep, *variation.
diurnule (di-ern ul), n. [L. diurnus, daily, +-ule, as in granule.] A granule containing a fractional part of the daily dose of a drug, the size of the fraction denoting the number of granules that must be taken at even intervals in the course of twenty-four hours.

Diuturnal revolution of the earth, a phrase used by William Andrews (1899) to describe an imagined spiral revolution of the earth in the course of which "the north terrestrial polar point is taken within 30" of the south sidereal polar point, and returned to within 60" of the point under the North Star from whence it started."

div² (dev), n. [Pers. div, div, formerly dev, \(\) Zend daeva, an evil spirit, = Skt. deva, god: see deva. For the descent of meaning compare the history of demon.] In Persian myth., an evil spirit or demon; a devil; an evil genius. An abbreviation (a) of dividend, much as, cum div., with the dividend; ex div., without the dividend; (b) of division.

divagate (di-vā'gāt), v. i.; pret. and pp. divagated, ppr. divagating. To wander about, as from place to place or from subject to subject;

digress divalence (di'va- or div'a-lens), n. The state of being divalent.

divalency (dī'vā- or div'a-len-si), n. Same as *divalence.

Divers' disease, divers' palsy. Same as caisson-disease.—Florentine diver, one of the globes or human figures used in the experiment with Ferdinand's globes.

vergent nerves.

ditokous, a. 2. Producing two kinds of young, diverginervous (di-ver-ji-ner'vus), a. Same as some worms.

as *diverginervate.
di-tri-. An elliptic combination of di- + tri-, diversicolored (di-ver-si-kul'ord), a. Of vari-

diversifoliate (di-ver-si-fo'li-āt), a. [L. di-versus, diverse, + folium, leaf.] Same as di-

-all.] Relating, pertaining to, or used in diversion: as, diversional contrivances.

The uses to which the earthenware of the aborigines was applied were numerous and important; they may be

classed roughly as domestic, industrial, sacerdotal, ornamental, and trivial or diversional.

Rep. Bur. Amer. Ethnol., 1898-99, p. 24.

Diversion weir. See *weir.

diversisporous (di-ver-si-spō'rus), a. [L. di-versus, different, + Gr. oπορά, seed (spore).]

Having different kinds of spores.

diverter, n.— Risctrical diverter, a form of combined lightning guard and fuse for telephonic and other electrical apparatus. It consists essentially of a coll of fine copper wire the inductance of which serves to divert sudden surges of current to a neighboring ground-plate. The terminals of the coll, which are of fusible metal, afford protection from heavy currents.

divertibility (di-ver-ti-bil'i-ti), n. The capability of being diverted into other channels: as, the divertibility of trade.

Diverticular hernia. See *hernia.

diverticularization (dī-ver-tik "ū-lār-i-zā'-shon), n. In embryol, the act of forming diverticula, evaginations or pockets during development.

diverticulate (dī-ver-tik'ū-lāt), a. Same as diverticulated.

diverticulum, n. 2. Any short side passage of the nature of a cul-de-sac or blind alley.

Four or five feet below the entrance was a diverticulum, or short side passage . . . probably used as a place in which to turn around when the animals come back to take a look at the intruder before finally disappearing in the bottoms of their burrows.

Yearbook U. S. Dept. Agr., 1901, p. 261.

8. In algol., a protrusion of protoplasm communicating with the fused procarp cells and the municating with the fused procarp cells and the placenta.— False diverticulum, a diverticulum of the intestine caused by a protrusion of the nucous membrane through a rent in the nuscular wall.— Meckel's diverticulum, a diverticulum from the lleum resulting from non-biliteration of the ductus vitellinus in the embryo.— Pulsion diverticulum, adiverticulum caused by a protruding force acting from within. Jour. Exper. Med., Jan. 15, 1901, p. 328.— Traction diverticulum, a diverticulum caused by a pulling force from without, as by the contraction of fibrous adhesions.—True diverticulum, a diverticulum of the intestine formed by a protrusion of the entire thickness of the wall: opposed to false *diverticulum* (which see). ticulum (which see)

divertimento (di-ver-ti-mān'tō), livertimento (di-ver-ti-mān'tō), n. [It., \(\) divertire, divert.] In music: (a) A dance interpolated in an opera; an entracte. (b) A piece of chamber music, made up of several movements rather loosely combined; a suite or sonata (in the older sense). (c) A potpourri or fantasia. (d) A free episode in a fugue.

divertisement, n. 3. Same as *divertimento (a): in this sense usually in the French form diver-

tissement.

lives (dī'vēz), n. [L. dives, rich.] A rich man: [cap.] usually regarded as the proper name of the rich man of the parable in Luke dives (dī'vēz), n.

Tyl.—Dives costs, in law. See costs.

Divesian (di-vē'si-an), a. [Dives in France.]

In geol., noting a division of the Jurassic system in the vicinity of Dives and elsewhere in France, in part equivalent to the Kellaways rocks or Middle Oolites of Britain. divestitive (di-ves'ti-tiv), a. Having the

power or property of divesting.

divide, v. t. 12. In billiards, to divide balls (mentally) into sixteenths, eighths, quarters, halves, and three quarters of their diameters, in order to insure certain deviations. Stokes are divided into quarter-follows, half-draws, half-spread,

divide, n.—Continental divide, a water-parting be-tween river systems that flow into different oceana.— Great Divide, specifically, the Rocky Mountain water-

divided, p. a. (d) In phonol., applied to a consonant, as l, formed with the mouth-passage divided in the middle by the tongue pressed against the gum or palate.—Divided harmonically, divided internally and externally into segments having the same ratio.—Divided internally divided, as a sect AB, by a point P upon it.—Divided self, divided will. See **self.

dividend n.—Cumulative dividend, a dividend with regard to which it is agreed that if at any time it is not paid in full, the difference shall be added to the following payment. Thus if a cumulative dividend is 5 per cent, and only 4 per cent is paid, the amount due at the next payment is 6 per cent.—Preferential dividend, a dividend on preferred stock.

A cumulative preferential dividend is sometimes said

A cumulative preferential dividend is sometimes said to be "guaranteed," and preferential dividends payable by all companies registered under the [British] Companies Acts, 1862 to 1900, are cumulative unless stipulated to be otherwise.

Encyc. Brit., XXVII. 471.

dividing-motion (di-vi'ding-mo'shon), n. An apparatus for dividing a straight line or circle into a given number of equal parts. It is commonly used on gear-cutters for spacing the

dividing-plate (di-vi'ding-plāt), n. A plate having series of holes spaced at proper inter-

vals to be used in dividing circles or distances into a given number of equal parts; an indexnlata.

dividual. a. 2. Divided; separate; distinct. Me-and-Thee: some dividual Existence or Personality distinct from the Whole.

Fitzgerald, Notes to Rubaiyat, st. 32.

3. Divisible; capable of being divided into parts: as, "a dividual essence in Truth," parts: as, Lorell

dividualism (di-vid'ü-al-izm), n. The opposite of individualism or subsistence as a distinct entity. See individualism and individuality.

We see in a general way that a condition of the presentation of visions lies in the over-sensitiveness of certain tracks or domains of brain action and the under-sensitiveness of others, certain stages in a mental process being represented very vividly in consciousness while the other stages are unfelt; also that individualism is changed to dividualism. Francis Galton, Human Faculty, p. 169.

dividuality (di-vid-ū-al'i-ti), n. [dividual + -ity.] The opposite of individuality. See the extract.

Dividuality [in dreams] replaces individuality, and one ortion of the mind communicates with another portion as with a different person.

Francis Galton, Human Faculty, p. 207.

divinatorial (di-vin-a-to'ri-al), a. [divinatory + -all.] Based on conjecture; conjectural: as, divinatorial criticism.

diving-lamp (di'ving-lamp), n. An electric lamp specially arranged for use by submarine

divinify (di-vin'i-fi), v. t.; pret. and pp. divini fied, ppr. divinifying. [divine + -i-fy.] To render divine; ascribe divine attributes or powers to; regard as divine.

Divisible offense. See *offense.

division, n., 5. (e) In ratiroads, the longest undivided part of a line: distinguished from the smaller subdivisions called **aections.

10. In biol., the breaking up of an organism,

either naturally or artificially, into two or more parts which restore what is lacking and become new organisms of the typical form, as contrasted with reproduction by buds, which begin as small parts of the parent organism and gradually increase in size until they attain the typical form.

For instance, the delevopment of a new individual at the side of the body of hydra is a typical example of budding, while the breaking up of lumbriculus or of a planarian into pieces that form new individuals is a typical example of division.

T. H. Morgan, Regeneration, p. 149.

T. H. Morgan, Regeneration, p. 149.

Cassimi division, in astron., the principal division in Saturn's ring, discovered by Cassini in 1675.—Chesapeake division, in geol., a division of the Miocene Tertiary developed along the Atlantic coast.—Heterotype.—Homographic division, in math., projective division; the partition of a straight line or of two straight lines by two projective ranges or point-rowa.—Postreduction division, a reduction division of the chromosomes in the secondary obeyte or secondary spermatocyte, following an equation division in the primary obeyte or primary spermatocyte.—Prereduction division, a reduction division in the primary obeyte or primary spermatocyte.—Prereduction division of the chromosomes in the primary obeyte or primary spermatocyte. somes in the primary oöcyte or primary spermatocyte, preceding an equation division in the secondary oöcyte or

preceding an equation division in the secondary cooper of secondary spermatocyte.

divisional, a. 3. Fractional.

II. n. An aliquot part; a sub-multiple.

-Divisional plane. See *plane1.

division-center (di-vizh'on-sen'ter), n. Same

division-engineer (di-vizh'on-en-ji-nēr'), n.
The chief engineer having charge of the maintenance of way for a division of a railroad.

division-peg (di-vizh'on-peg), n. A hardened steel peg which is used with a division-plate. The peg is attached to an arm, the turning of which feeds the work in the machine into position for the next cut. When the arm has been turned the correct distance, the peg is pushed into a hole in the division-plate and holds the work steadily while the cut is being taken.

division-plane (di-vizh'on-plan), n. A joint in a rock which facilitates the separation of blocks of stone.

division-superintendent (di-vizh'on-sū-per-in-ten'dent), n. The chief officer in charge of the traffic of a division of a railroad.

divisor, n.—Essential divisor of the discriminant, a divisor unaffected by birational transformations.—Unessential divisor of a discriminant, a perfect square which, multiplied by an essential divisor, gives the discriminant

divisory (di-vi'zō-ri), a. [NL. *divisorius, < L. divisor, divisor.] Relating to or concerned with the division of something and the distribution of the parts among a number: as, divisory

divorce (de-vorst'), p. a. Separated by legal decree from the bonds of matrimony; repudiated by a formal act of divorce.

divorcee (di-vôr-sē'), n. [divorce + -ee'], after the F. forms (which are also often used in Eng.), divorcé, m., divorcée, f.] A person who has been divorced. The term is more com-

monly applied to a woman.

divorcée (dē-vôr-sā'), n. [F.] A divorced

woman.

divot, n. 2. In golf, a piece of turf cut out with a club in playing a stroke.

divvy (div'i), n. [divi(dend).] A dividend; an amount to be divided or shared by the members of a party or ring. [Slang.]

divvy (div'i), v. i.; pret. and pp. divvied, ppr. divvying. To go shares.—To divvy up, to pay up the share that ought to come to one. [Slang.]

dix (dēs), n. [F., ten; OF. dis, < L. decem, ten: see ten.] The lowest trump in games such as penuchle, bezique, sixty-six, etc. It can be exchanged for the turned-up trump at any time, the holder of it scoring ten points.

changed for the turned-up trump at any time, the holder of it scoring ten points.

Dixa (dik'sä), n. [NL. (Meigen, 1818), < Gr. diz'óz, Ionic for diasóz, double.] A genus of midges typical of the family Dixidæ. They are minute and inhabit damp places in forests. The larvæ are aquatic and resemble those of mosquitos. Less than ten species are known to inhabit the United States, and four are found in Great Britain.

dixeny (dik'se-ni), n. [Gr. δι-, two-, + ξένος, host.] The inhabiting by fungi of hosts of two different species. De Bary. See *polyxeny,

*monoxeny.

dixid (dik'sid), n. and a. I. n. A member of the dipterous family Dixidæ.

pini. II. a. Of or belonging to the family Dixidæ.

To Dixidæ (dik'si-dē), n. pl. [NL., < Dixa + idæ.] A family of midges intermediate between the Culicidæ and the Tipulidæ and con-

sisting of the single genus Dixa.

dizoic (dī-zō'ik), a. [Gr. δι-, two- + ζφον, animal.] Producing two young: as, a dizoic spore; specifically, producing two falciform bodies or sporozoites, as the spores of certain Caccidiidea Lahbé

Coccidiidea. Labbé.

Coccatatada. Labbe.

dizziness, n.— Purkinje's dizxiness, in psychol., an illusion of rotation, due to involuntary movements of the eyes. If one twiris upon one's heels until the surrounding objects seem to be moving in the opposite direction, and then stops, the surrounding objects will appear to continue their movement: this is Purkinje's dizziness. If the eyes are watched during the illusion, it will be seen that they execute slow movements in the direction of the original rotation, alternating with rapid movements in the opposed direction. E. C. Sanford, Exper. Psychol., p. 42.

dl. An abbreviation of deciliter.

D. L. An abbreviation (a) of Deputy Lieutenant; (b) of Doctor of Law, a degree equivalent to D. C. L.; (c) of Doctor of Literature, a degree equivalent to D. Lit.

D. L. D. An abbreviation of Doctor of Letters and Didactics, a degree conferred by some institutions.

D. Lit. or D. Litt. An abbreviation of Doctor of Literature or Letters.

D. L. O. An abbreviation of Dead Letter Office.
D. L. S. An abbreviation of Doctor of Library Science, a degree conferred by the University of the State of New York.

dm., dm., dm., Abbreviations of decimeter, square decimeter, cubic decimeter.

D. M. 2. In astron., an abbreviation for *Durch-musterung (which see). It usually refers to Argelander's Bonn Durchmusterung of the northern heavens, more properly referred to as B. D. M. or simply B. D. 3. Same as M. D. (which see).—4. An abbreviation of Doctor of Mathematics.

D. M. D. An abbreviation (a) of Doctor of

Dental Medicine; (b) of Doctor of Mathematics and Didactics: degrees conferred by certain institutions.

D. N. P. P. An abbreviation of the Latin Dominus noster Papa Pontifex, 'our lord the Pope and Pontiff.' D. N. P. P.

10- or dom- (do-, dom-). [dom(inantly).] In petrog., in the quantitative system of classification (see *rock1), a prefix used in forming words, denoting that one constituent or group of constituents dominates another within the ratios < i > 1.

do1, v. t.—To do the block. See +block1.

D. O. An abbreviation (a) of Doctor of Oratory; (b) of Doctor of Osteopathy.

Doassansia (dō-a-san'si-a), n. [NL. (Cornu, 1883), named for Emile Doassans, a French botanical chemist.] A genus of smut-fungi of the order *Ustilaginales*, having the spore-masses inclosed in a layer of sterile cells and embedded in the tissue of the host, producing leaf-spots. About 16 species have been described, mostly occurring on aquatic or marsh plants. D. Alismatis is frequently found on the leaves of the waterplantain, Alisma Plantago-aquatica.

 $egin{aligned} \mathbf{dob^2} & (\mathbf{dob}), \ n. & [\mathbf{Dial.} \ \mathbf{var.} \ \mathbf{of} \ dab^1.] \ \mathbf{A} \ \mathbf{small} \\ \mathbf{piece} \ \mathbf{of} \ \mathbf{anything} \ ; \ \mathbf{a} \ \mathbf{lump}. & [\mathbf{Prov.} \ \mathbf{Eng.}] \ \mathbf{dobash}, \ n. & \mathbf{See} \ dobhash. \ \mathbf{dobber} \ (\mathbf{dob'er}), \ n. & [dob^2 + -er^1.] \ \mathbf{1}. \ \mathbf{A} \ \mathbf{piece} \ ; \ \mathbf{piece} \ \mathbf{exp.} \end{aligned}$

a lump: a big lump.—2. A large heavy taw or marble.—3. The cork or float of a fishingor marble. line. [U. S.]

He floated on the waves like a merman, or like an angler's dobber, until he landed safely on a rock.

Troing, Knickerbocker, it. 5.

dobbin-cart (dob'in-kärt), n. An Irish fourwheeled carriage used for traveling, and generally drawn by two horses. N. E.

dobby, n.—Center-shed dobby, a form of dobby-loom chiefly used in weaving cotton labrics the structure of which (as that of gauze) precludes high speed, or for which closed shedding is essential.

dobby-loom (dob'i-löm), n. Same as dobby-

dobby-shedding (dob'i-shed'ing), n. A method of operating the harnesses of a loom for pat-terns beyond the range of tappets and too limbe economically produced by a Jacquard loom.

doblon (dō-blōn'), n. [Sp.] A gold coin of Spain, the double escudo: same as doubloon. doc (dok), n. A colloquial form of doctor, as a title of address.

doc.; pl. docs. Abbreviations of document, pl. documents.

docalcic (do-kal'sik), a. [do(minantly) + calcic.] In petrog., dominantly calcic: used in the quantitative classification of igneous rocks (see *rock1) to describe divisions of igneous rock-magmas characterized by a inance of calcium oxid over contrasted constituents. In Classes I, II, III, docalcic rangs are those in which lime preponderates over potash and soda, in the salic constituents within the ratio $\frac{K_3O' + Na_2O'}{CaO'} < \frac{3}{5} > \frac{1}{7}$.

In Classes IV, V, docalcic sections of range are those in which lime preponderates over magnesia and ferrous iron in the femic constituents within the limits $\frac{MgO + FeO}{CaO''} < \frac{3}{5} > \frac{1}{7}.$

docetically (dō-sē'ti-kal-i), adv. According the doctrines of the Docetæ (which see).

docetize (do-se'tiz), v. t.; pret. and pp. docetized, ppr. docetizing. [Docetæ + -ize.] To represent according to the doctrines of the

dochmiasis (dok-mi-ā'sis), n. [NL., < Dock-mius + -iasis.] Same as *ancylostomiasis. docil, a. A simplified spelling of docile.

docimasy, n.—Pulmonary docimasy, a method of determining whether or not air has entered the lungs of a dead infant, by which an indication is furnished whether the child was born alive or dead.

dead infant, by which an indication is furnished whether the child was born alive or dead.

dock¹, n.—Bloody dock, Rumez sanguineus. Also called red-veined dock and bloodwort. See bloodwort (a).

—Bunt-leaved or broad-leaved dock, the bitter dock, Rumez obtusifolius.—Butterfly-dock, Same as *botter-dock, 1.—Can-dock. See candock, 2, and water-can—Clustered dock, Rumez conglomeratus, an Old World species naturalized in the United States from Virginis to South Carolina and in California: peculiar in having the small green flowers in whorls along the stems and branches.—Cuckold-dock, the burdock, Arctium Lappa.—Drop-seed dock, Rumez hastulatus, a native American species ranging from New York to Florida and west to Kansas and Texas: it has winged fruit which early drops away. Also called Engelmann's sorrel.—Golden dock (a) See dock¹, 1. (b) Rumez persicarioides, an American species long confounded with the golden dock of the Old World, found on sandy shores from New Brunswick to Virginia and westward to Kansas and New Mexico, and also on the Pacific coast.—Pale dock, the white dock, Rumez salicifolius; also the peach-leaved dock, R. Britannica.—Peach-leaved dock, Rumez salicismus, at all American species, sometimes 4 feet high, found along streams and in swamps from Massachusetts to Maryland and westward to Nebraska and Texas. The pale-green lanceolate leaves suggest the name, and it is also quite as appropriately called tall dock.—Prairie dock, See *prairie-dock.—Red-veined dock, Sume as bloody *dock.—Rharp dock, Sorrel-dock, sour-dock, any one of several docks with more or less acid juice, as Rumez Actova, R. Actoscalla, R. crispus, and Oxyria digyna.—Tall dock. Same as peach-leaved *dock.—Water-dock.

dock², v. t. 5. In biscuit- (cracker-) making, to water-dock.

dock², v. t. 5. In biscuit- (cracker-) making, to prick holes in (each biscuit) before it is put in the oven, to provide for the escape of moisture.

the oven, to provide for the escape of moisture. docks, n. Docks are distinguished broadly as net docks, or those consisting of an inclosed water-space or basin in which ships lie to take in or discharge cargo, and which cannot be pumped dry; and dry-docks, in which ressels can be taken entirely clear of water. The latter are divided into excavated or graving-docks, slip-docks, lifting-docks, and floating docks. A basin dock is a wet dock whose entrance is continually open to the tide; a closed dock, one whose entrance is closed by a lock, caisson, or gate so as to maintain the interior water-level approximately constant. A slip-dock is one in which a vessel is partially hauled out on a marine railway in a slip provided with gates which are closed at low tide, excluding the water from the vessel. A lifting-dock is one in which a submerged platform on which the ship is landed on blocks and



GOCK

2. In railroading, a track at a siding or in a freight yard, having a raised platform on each side for convenience in loading at the level of the car door. [U. S.]—Bureau of yards and docks. See *bureau.—Portable dock, a dock, built on the principle of the caisson, which can be towed to a vessel needing repairs.—Ship-building dook, any dry-dock or caisson within which the hull of a vessel may be built, and the use of cradle-construction and ways be avoided. dock-cross (dok'kres), n. See cress and Lup sana.

docker² (dok'er), n. [dock³ + -er¹.] 1. An inhabitant of Devonport, England (formerly Plymouth Dock).—2. A laborer in the docks: as, a trades-union for dockers was formed.—3. A case secured by a lawyer from a prisoner after his arrest or upon arraignment. [Eng.

law-slang.]

docking² (dok'ing), n. [dock³, v., + -ing¹.]

The operation of placing a vessel in a drydock for cleansing, inspection, painting, and

renairs.

docking-keel (dok'ing-kel), n. ing, one of a pair of exterior side keels secured under the bottom of a large armored warship, usually about half-way between the main keel and the turn of the bilge, to support the ship when in dry-dock. The lower surface of each of the docking-keels is parallel to that of the main keel and of about the same width, to give good bearing surface on the blocks in the bottom of the dock on which the ship is landed.

landed.

docmac (dok-mäk'), n. [Ar. doqmāq, duqmāq, a mallet, < daqq, knock, smash.] A catfish, Bogrus docmac, of considerable size, found in fresh waters in Egypt.

docoglossan (dok-ō-glos'an), a. [Docoglossa + -an.] Relating to the Docoglossa.

docosane (dok'ō-sān), n. A colorless compound, CH₃(CH₂)₂₀CH₃, found in paraffin from brown coal and prepared by the reduction of the chlorid C₂₂H₄₄Cl₂. It melts at 44.4° C. and boils at 224.5° C. under 15 millimeters pressure. nressnra

ctor, n. 10. In angling, a name applied to everal artificial flies: as, the blue doctor, the doctor, n. solver artificial mies: as, the blue doctor, the silver doctor, etc.—11. A boiler feed-pump such as has been preferred on the western rivers of the United States. It is a vertical steampump, with a fly-wheel between the steam-cylinder, and is said to be especially reliable. In case of need it can be operated by turning the fly-wheel by hand. hand

The cook of a merchant vessel; also, the cook of a lumber-camp. [Slang.]—Doctors of the church, the designation of certain fathers of the carly church, eminent for their knowledge and teaching of theology. The title is applied to four of the Greek fathers: Athanasius, Basil, Gregory, and Chrysostom; and to a number in the Latin church including Ambrose, Augustine, and Jerome. Some of the great schoolmen of the middle ages are also so designated. The title is still used in the Greek Church.

doctor-bird (dok'tor-berd), n. A local West Indian name for various humming-birds of the genera Eulampis and Lampornis: probably given on account of their dark plumage.
loctor-knife (dok'tor-nīf), n. The stationary

doctor-knife (dok'tor-nif), n. The stationary blade in a roller cotton-gin. Taggart, Cotton Spinning, I. 32.

doctor-shears (dok'tor-sherz), n. In calico-printing, two pieces of metal that clamp, by means of pinching screws, the doctor-blade on

a cylinder printing-machine.

doctrin, n. A simplified spelling of doctrine.

doctrinairism (dok-tri-nār'izm), n. Same as

doctrinarianism

doctrinism (dok'tri-nizm), n. [doctrine + -ism.] Adherence to doctrine or doctrinal preaching.

Adherence to doctrine or doctrinal preaching.

document, n.—Document of title, in commercial law, a bill of lading, or other paper which confers upon the holder possession or right of possession of the goods therein described.—Judicial documents, in law, the papers required to be filed which make up the record of an action or special proceeding. They include the writs, pleadings, intermediate orders, and papers upon which they are founded, affecting the proceedings, documentary evidence, inquisitions, verdicts, judgment, and decrees.

documentarily (dok-ū-men'tā-ri-li), adv. As a document.

a document.

documentary, a. 2. Educational; instructional. 8.---25

We now approach the time when for a century and a half French held a recognized position (in England) as the language of education, of society, of business, and of administration. Long before 1250 we get traces of the documentary use of French, and long after 1350 it was continued. Trevisa says it was a new thing in 1349 for children to construe into English in the grammar schools, where they had been used to do their construing into French.

**Earle, Philol. Eng. Tongue, ¶ 52.

Documentary theory, same as documentary hypothesis. documentation, n. 2. The preparation of records or documents for use or for filing.—3. Formal or authoritative instruction.

Remonstrances arose against their perverse and narrow-minded devotion to "truth," or rather to minute exacti-tude, their pedantry and affectation of documentation; sometimes derived from some old colourists who had not renounced their former ideal, sometimes from younger men impelled unconsciously by literature, which had as usual preceded art in the revolt.

Encyc. Brit., XXXII. 448.

men impelled unconsciously by literature, which had as usual preceded art in the revolt.

Encyc. Brit., XXXII. 448.

dodder¹, n. The various dodders are named, for the most part, from their principal host or from some leading character, and the specific names are usually translations of vernacular ones or vice versa. See the following phrases.

—American dodder. See glomerate *dodder. — Beaked dodder, Cuscuta rostrata, a species of the Alleghany region from Maryland southward, growing on various herbs and shrubs. — Button-bush dodder, C. Cephalantiti, which grows on the button-bush, but also on other plants, and has a very wide range in North America.—Clover-dodder, the thyme-dodder, C. Epithyn.um, injurious to clover. See dodder¹.—Dodder-cake plant, the false fax or gold-of-pleasure, yielding dodder-seed, from which the oil is expressed and made into cakes.—Field-dodder, C. areasis, one of the most common species, found in both North and South America.—Flax-dodder, C. paradoza, chiefly confined to the Mississippi valley, peculiar from its dense clusters of flowers. It grows a manly on composite plants. Sometimes called American dodder.—Gronovius's dodder, C. Gronovii, a large, showy American species, very common in the Atlantic States, and ranging from Nova Scotia to Florida and Texas. It grows on many herbs and shrubs.—Haxel-dodder, C. Epithymum.—Lucerns-dodder, the thyme-dodder, C. Epithymum, Lucerns-dodder, the thyme-or clover-dodder, which is also injurious to lucerne.—Smartweed-dodder, the thyme-dodder, C. Epithymum,—growing on thyme in Europe, but most injurious to clover. See clover-holodder and dodder! (cut).

dodder laurel (dod 'er-lâ'rel), n. A dodder-like plant, Cassytha filiformis, of the laurel family, found in the warm maritime regions of the world. Compare scrub vine, under vine. dod

twelve parts.

dodecahedron, n.—Deltoid dodecahedron, a crystalline form of the tetrahedral group of the isometric system embraced by twelve similar quadrilateral faces; the analogous form of the holosymmetric group is the trigonal trisoctahedron. Also called a tetragonal tristetrahedron.

dodecameral (dō-de-kam'e-ral), a. [Gr. δώ-δεκα, twelve, + μέρος, division, + -al.].] Divided into twelve parts or series of twelves, as in the septal divisions of the Hexacoralla.

dodecanaphthene (dō'dek-a-naf'thēn), n. [Gr. δώδεκα, twelve, + E. naphthene.] A colorless liquid, C₁₂H₂₄, found in Baku petroleum. It boils at 197° C.

dodecane (dō-dek'ān), n. [Gr. δώδεκα, twelve.

dodecane (dō-dek'ān), n. [Gr. δώδεκα, twelve, the decision (do-dek an), n. (dr. baseka, tweety + -ane.] A colorless hydrocarbon, CH₃(CH₂)₁₀ CH₃, prepared by the action of hydriodic acid and phosphorus on lauric acid. It melts at -12° C. and boils at 214.5° C.

dodecant (do'de-kant), n. [Gr. δώδεκα, twelve, + -ant¹.] One of the twelve divisions of a hexagonal crystal formed by the lateral axial plane with the three planes which pass through the vertical and each of the lateral axes.

dodecapartite (do"dek-a-pārt'īt), a. [Gr. δώ-δεκα, twelve, + L. partitus, parted.] Made up of twelve segments; dodecafid.

dodecapharmacum (dô'dek-a-fār'ma-kum),
n. [NL., ζ Gr. δώδεκα, twelve, + φάρμακον,
drug.] Same as apostles' ointment (which see,

under apostle).

dodecarch (do'de-kärk), n. [Gr. δωδεκάρχης, ζ δώδεκα, twelve, + ἀρχειν, rule.] One of a ruling body of twelve.

Psammetichus I., one of the dodskarchs, and the legitimate heir of the crown.

Schaff, Relig. Encyc., I. 707.

dodecateic (dō'dek-a-tō'ik), α. [Gr. δωδέκατος, twelfth, +-ic.] Noting the isomeric fatty acids, $C_{12}H_{24}O_2$. The most important ones are the lauric and hordeic acids.

dodecylene ($d\bar{o}$ -des'i-len), n. [Gr. $d\omega d\epsilon \kappa a$, twelve, +-yl +-ene.] A general name for iso-

meric, olefinic hydrocarbons. The normal compound is a colorless liquid, CH₃(CH₂)₂CH:CH₃, prepared by the distillation of palmitic acid under 600 millimeters pressure. It melts at -31.5° C. and boils at 96° C. under 15 millimeters pressure.

dodge, v. t. 3. In change-ringing, to change the place or order of (a bell) in the series used. dodge, n. 2. Of a bell in change-ringing, a change in its place or order in the series used. Doegling oil or train-oil. See *oil. doeskin, n. 3. An enameled cloth finished on one side to resemble leather in color. dof, v. A simplified spelling of doff. dodge, v. t. 3. In change-ringing, to change

dofelic (dō-fel'ik), a. [do(minntly) + felic (\(fel(dspar) + -ic).] In petrog., dominantly felic: used to describe divisions of igneous rock magmas characterized by a dominance of normative feldspar over normative quartz or len-ads (= nephelite, leucite, sodalite) within the limits $\frac{Q \text{ or } L}{\frac{1}{6}} \langle \frac{3}{6} \rangle +$. See *rock.

dofemane (dō-fem'ān), n. [do(minantly) + fe(rro)m(agnesian) + -ane.] In petrog., the name of the fourth class of igneous rocks in the quantitative classification (see $*rock^1$); a rock in which the femic (ferromagnesian) normative minerals preponderate over the salic minerals, that is, normative quartz, feldspars, feldspathoids (lenads), and corundum, within the limits $\frac{Sal}{Fem}$ $\langle \frac{3}{5} \rangle \frac{1}{7}$. The salic and femic minerals

used in determining the class are calculated from a chemical analysis of a rock. The dofemanes include rocks poor in feldspar or free from it, such as many peridotites, pyroxenites, some gabbros, and chemically similar laws.

roxenites, some gabbros, and chemically similar lavas. dofemic $(d\bar{o}-fem'ik)$, a. [do(minantly) + femic (< fe(rro)m(agnesian) + -ic).] In petrog., dominantly femic. Used to describe divisions of igneous rocks, in the quantitative system (see *rock1), characterized by a dominance of ferromagnesian normative minerals over salic minerals, that is, normative quartz, feldspars, feldspathoids (lenads), and corundum, within the limits $\frac{Sal}{Fem} < \frac{3}{4} > \frac{3}{4}$.

doferrous (dō-fer'us), a. [do(minantly) + for-rous.] In petrog., in the quantitative system (see *rock1), noting divisions of igneous rocks characterized by a dominance of ferrous oxid over magnesia, within the limits $\frac{\text{MgO}}{\text{FeO}} \langle \frac{3}{5} \rangle +$.

These divisions are subrangs in classes IV, V. doffer-brush (dof'er-brush), n. An auxiliary device, on a cotton-combing machine, for keeping the comb-needles free from dirt.

doffer-comb (dof'er-kom), n. A thin plate of steel, serrated on one of its edges, for combing, by an oscillating movement, the fibrous fleece, as cotton or wool, from the doffer-cylinder of a carding-machine.
doffer-cylinder (dof'er-sil'in-der), n. Same as

doffing-cylinder.
doffer-roll (dof'er-rol), n. The small roll in advance of the principal one in a calendering-or

ironing-machine, or in a mangle, by which the fabric is stripped off and delivered to the receiving table, instead of being allowed to fol-low around the pressing-roll.

doffing-motion (dof'ing-mo"shon), n. Any me-chanical arrangement for removing a product

from a machine, as a hank from a reel in a textile-mill.



from a machine, as a hank from a reel in a textile-mill.

dog, n., 9. (m) A short, heavy piece of steel, bent and pointed at one end and with an eye or ring at the other. It is used for many purposes in logging, and is sometimes so shaped that a blow directly against the line of draft will losen it. Also called tail-hook. (n) In agri., an implement for dragging brush, roots, and poles out of the ground; a brush-puller. [Eng.]—Big dog, in poker, a hand which is ace high and nine low, with some one card of the sequence missing, as A K Q 10 9. When played, it beats a straight or little dog and loses to a flush.—Borsor dog, the Russian wolfhound, practically a large, long-hafred grey-hound, somewhat like the staghound, but with a soft, silky cost.—Cape hunting-dog. See eut and description under Lycaon.—Coondog. See *coon-dog.—Dog's letter.

See dog-letter and R, 1.—Heel dog, a dog that follows at heel.—Hunting dog. (c) pl. In astron., a northern constellation closely following Ursa Major; Canes Venatici.—Limit dog, one that may be exhibited, or may compete for prizes, in a class limited to dogs that have certain required qualifications.—Little dog, in poker, a hand which is deuce low and seven high, with some one card of the sequence missing, as 2 4 5 6 7. When played, it beats a straight, but loses to a big dog or a flush.—St. Bernard dog, a variety of the dog, of large size and powerful build, mamed from the hospice of St. Bernard in the Alpa. The breed was formerly used for searching out and adding travelers. Theoriginal race died of distemper about 1814. There

are two varieties, the long- and the short-haired, but both have heavy, square heads. The color is tawny, orange and white, or griszled.— Straight-tailed dog, a form of dog or driver for cylindrical stock to be turned in the metal-working lathe, in which the projection to engage the face-plate is straight, and intended to be acted on by a pin or bolt projecting from the face-plate. The other and more usual form, in small sizes, has the projecting arm L-shaped, the end of the L engaging in a slot or against a shorter stud on the driving face-plate.

*dogberry, n. 3. Ribes Cynosbati. See wild *gooseberry, 1.
dog-boat (dog'bōt), n. See *rigging-sled.
dog-bolt2 (dog'bōlt), n. [dog, n., 9 + bolt1.]
The bolt which is used in connection with a dog, for holding a bonnet or a manhole or hand-hole

cover in place.

dog-bur (dog'ber), n. The wild comfrey, Cynoglossum Virginicum; less properly, the hound'stongue or dog's-tongue, C. officinale.

dog-buttons (dog'but-nz), n. pl. The seeds of the nux vomica. Also called quaker buttons.

the nux vonica. Also called quaker buttons.

Dog-cart phaëton. See *phaëton.

dog-chuck (dog'chuk), n. A device which is clamped to a piece of work for the purpose of driving it while it is being machined. A tail, which is sometimes straight and sometimes bent at right angles, is provided on this device for catching in a faceplate or against a stop.

dog-crab (dog'krab), n. A swift-running crab, Cancer caninus, said by Rumphius to burrow under houses and to enter them.

dog-daisy, n. 2. The mayweed or dog's-fennel,
Anthemis Cotula.—3. The oxeye daisy.

dog-dance (dog'dans), n. A ceremony of some North American Indian tribes; the ritual of one of the age-fraternities, embracing warriors of approximately the same age, who form a semi-religious society.

or approximately the same age, who form a semi-religious society.

dog-dandelion (dog'dan'dē-lī-on), n. The fall dandelion or hawk-bit, Leontodon autumnale.

Dog-day locust. See *locust!.

dog-fall (dog'fâl), n. In wrestling, a fall in which both wrestlers strike the ground together.

dogfish, n., 1. (i) In Australasia, the name of various fishes of distinct families, chiefly sharks. In Australia it is used for Scylliorhinus lima, of the family Scylliide. In New South Wales it is Scylliorhinus maculatus Blainv. The spine dogfish of New Zealand is Squalus Blainv. The spine dogfish of New South Wales, Chiloscyllium modestum Gunther; and there are others in Tasmania and Australia Austral English.—California dogfish, a species of dogfish found on the coast of California and Alaska, Squalus sucktii.—Dogfish shark, any shark of the family Squalide.—Electric dogfish, any fish of the genus Astroscopus, inhabiting both shores of tropical America. These fishes have the power of giving an electric shock from an electric organ situated on top of the head.

dog-fiea (dog'fiē), n. See Pulex.
dogger³ (dog'er), n. [dog +-erl.] In lumbering, one who attaches the dogs or hooks to a log before it is steam-skidded.

dog-grease (dog'grēs), n. The fat of the dog,

dog-grease (dog'gres), n. The fat of the dog, once considerably used as a household remedy, but now replaced by petrolatum and related products: also used in glove-manufacturing to some extent.

dog-hobble (dog'hob'l), n. [dog + hobble, n., 3.] One of the calfkills, Leucothoë Catesbæi: so called because its dense growth arrests dogs in the hunt. Also called dog-laurel. dog-hook, n. 3. In lumbering, a hook on the end of a haul-up chain of a size to permit it to be hooked into a link of the

chain when the latter is looped around an object. dog-iron (dog'ī'ern), n. A short bar of iron or steel, bent near its ends at right angles into the shape

of a square Z or a capital E, and pointed at the ends so that it may be driven into timber or logs: used

as a cramp.
dog-laurel (dog'lâ'rel), n. Same
as *dog-hobble.

dog-leg. (dog'leg) n. A name given Dog-hook, 3. to a number of things which have a bent form resembling that of a dog's hind a bent form resembling that of a dog's hind leg. See dog-legged.—Dog-leg fence, a fence composed of rough timber piled up and stayed by crossed stakes called dog-legs. [Australia.] dog-lily (dog'lil'i), n. The common pond-lily or spatter-dock, Nymphæa advena. dog-line (dog'lin), n. The trace by which the harness of a sledge-dog is connected with the clodes.

sledge

dogmaticism (dog-mat'i-sizm), n. [dogmatic

togmaticism (cog-mat result), n. [anymat + ism.] The quality of being dogmatic.
dog-mint (dog'mint), n. The basil-weed horse-thyme, Clinopodium vulgare.

dog-nail (dog'nāl), n. A railroad-spike, having a spreading or wide head. [Eng.] dog-nap (dog'nap), n. A short nap while in a sitting poeture. W. Phillips.
dog-nettle (dog'net'l), n. The dead-nettle, Lamium purpureum; also, the hemp-nettle, Galeopsis Tetrahit.
dog-pole (dog'pōl), n. One of the poles of a dog-travail. See travail?

dogs-and-cate (dogz'and-katz'), n. The field-clover, Trifolium arvense.

clover, Trifolium arvense.

dog's-bane, n.—Bitter dog's-bane. Same as dog's-bane, 1. Also called bitter-root.—Clasping-leaved dog's-bane, Apocynum hyperic(folium, the upper leaves of which are clasping. Its range is well northward from Ontario to British Columbia, but it is found in Ohio, Illinois, and New Mexico.—Climbing dog's-bane. Same as Virginia silk (which see, under silk).—Dog's-bane family, the plant family Apocynaces.—Spreading dog's-bane. Same as dog's-bane, 1.

dog's-dinner (dogz'din'er), n. Same as povertuniant.

dog's-fennel, n. 2. Eupatorium capillifolium, an anomalous species having the leaves pinnatifid with filiform segments: found in fields from Virginia to Florida and in the West Indies. — Palse dog's-fennel, the fettle margold (which see, under marigold). — Yellow dog's-fennel, Helenium tenui/olium of the southern United States. See Helenium and snezeweed.

dog's-finger (dogz'fing'ger), n. The foxglove, Digitalis purpurea.

dogafoot-weed (dogz'fut-wed), n. A burweed, Urena sinuata, widely distributed in the tropics, having a tough fibrous bark. The leaves are more or less like a dog's foot in shape. See

dog's-head (dogz'hed), n. An American pierid dog's-head (dogz'hed), n. An American pierid butterfly, Zerene'cœsonia, occurring abundantly in the southern United States. The wings are lemon-yellow bordered with black. The outlines of the yellow of the fore wings suggests the head of a dog. The larval food-plant is clover.

dog-sledge (dog'slej), n. A sledge designed to be drawn by dogs. Such sledges are used by the Eskimos and in northern Asia.

dog's-mouth (dogz'mouth), n. The great snapdragon. Antirrhinum majus.

dragon, Antirrhinum majus.

dog-snapper (dog'snap'er), n. A fish, Lutjanus jocu, known from the Florida Keys to
Brazil. See snapper.

Brazil. See snapper.

dog's-rib (dogz'rib), n. The rib-grass or English plantain, Plantago lanceolata.

dog's-thistle (dogz'this'l), n. The Canada thistle. See thistle.

dog's-tongue, n. 2. Same as deer's-tongue.

dog stopper (dog'stop'er), n. Naut., a stopper or heavy rope put on to relieve the regular stopper when at anchor in a heavy sea, or to

stopper when at anchor in a heavy sea, or to bitt the cable or fleet the messenger.

dog-strop (dog' strop), n. A strop of rope passed around a yard for the purpose of hooking a block into it for lifting a weight.

dog-throw (dog'thrō), n. The worst possible throw in a dice-game, such as hazard or craps.

dog-tie (dog'ti), n. A metal cramp or short anchor, used in stonework.

dog-toes (dog'tōz), n. The plantain-leaved or mouse-ear everlasting, Antennaria plantaginifolia. Also called pussy-toes.

mouse-ear everlasting, Antennaria pianuaginifolia. Also called pussy-toes.

dog-tooth (dog'töth), v. t. To ornament (an arch or other part of a building) by applying dog-tooth molding. See dog-tooth, a. and n. dog-warp (dog'warp), n. In lumbering, a rope with a strong hook at the end, which is used in breaking dangerous jams on falls and repide and in moving logs from other difficult.



wo valves of Mytilus edulis L., representing diagrammatically approximate position of the holes bored by the dog-winkle repura laptilus; in about too specimens of Mytilus, gathered at wquay, Cornwall. (From "Cambridge Natural History.")

dog-wedge (dog'wej), n. In tumbering, an iron wedge with a ring in the butt. It is driven into

dolcissimo

the end of a log, and a chain is hitched in the ring for akidding the log by horse-power. It is also used in gathering up logs on a drive. A rope is run through the rings of several logs, and they are dragged through marshes or partly submerged meadows to the channel.

dog-winkle (dog'wing'kl), n. A marine gastropod, Purpura lapillus, noted for its destruction of mussels by boring through the shell and devouring the mollusk, and for yielding the dye known as Tyrian purple.

dogwood, n., S.—Also, in Australia, the sugar-tree, Myoporum platycarpum, a tall shrub or small tree yielding a beautifully mottled and grained wood, suitable for veneering and cabinet-work, and possessing a pleasant perfume when freshly worked. It also yields a very sweet exudation or manna, of a whitish or pinkish color, eagerly sought after and eaten by the aborigines, and a a resin used by them as a substitute for pitch and wax.—Alder-dogwood, the alder-buckthorn, Rhamnus Frangula.—Alternate-leaved dogwood. Same as blue *dogwood.—American dogwood.

(a) Atelia Cubensia, a small leguminous tree of Cuba.

(b) Pomaderris apetala, a small rhamnaceous tree of Tasmania, yielding a beautiful satiny wood suitable for carving and turning. See Pomaderris.—Black dogwood. See dogwood, S.—Blue dogwood, Cornus alterniolista, a small tree of eastern North America, sometimes 30 feet high and 8 inches in diameter, with cymes of cream-colored flowers and dark blue-black suiglobose fruit: found from Nova Scotia to Georgia and Alabama, and westward in the northern range to Minnesota. The wood is similar to that of the flowering dogwood. Also called alternate-leaved and purple dogwood. California or Californian dogwood, Cornus Nuttallii, a tree of the Pacific alope, 40-60 (or exceptionally 100) feet high and



California or Californian Dogwood (Cornus Nuttallis). (From Sargent's "Manual of the Trees of North America,")

California or Californian Dogwood (Cornus Nuttalin).

(From Sargent's "Manual of the Trees of North America.")

1 to 2 feet in diameter. It is of the type of the flowering dogwood and is often so called. The involueral bracta are sometimes 3 inches long, narrowed at the base, and white or tinged with pink. The wood is very hard, strong, and fine-grained. It ranges from California to Vancouver Island, and east to the Sierra Nevada.—Dwarf dogwood, the bunch-berry or dwarf cornel. See bunch-berry, 1, cornel, and Cornus.—Palse dogwood.

Same as striped maple (which see, under maple1).—Florida dogwood, the flowering dogwood, Cornus florida.—Flowering dogwood. Sec cornus and California *dogwood.—Green-onier dogwood. Same as round-leaved *dogwood.—Jamaica dogwood, Ichthyomethia Piscipula. See Piscidia and nh-poison.—Male dogwood, the cornelian cherry, Cornus mas. See cornel and under cherry.—Pacific dogwood. Same as California *dogwood.—Poison-dogwood, the poison-sumac, Rhus Vernix.—Pond-dogwood, the button-bush, Cephalanthus occidentalis, the leaves of which resemble those of the dogwood, and which grows around ponds and swamps.—Purple dogwood. Same as blue *dogwood.—Red-oaier dogwood. See red osier, under osier.—Red-oaier dogwood. See red osier, under osier.—Rough-leaved dogwood, Cornus aper; folia, of eastern North America, the twigs and leaves of which are rough-pubescent.—Roumd-leaved dogwood, Cornus circinata, the leaves of which are orbicular. Its range is well north from Nova Scotia to Manitoba, no: extending farther south than Virginia and Missouri.—Striped dogwood. Same as striped maple (which see, under maple1).—Swamp-dogwood. (a) The silky cornel, (c) The hop-tree, Ptelea tryfoliata.—Virginia dogwood. (a) The poison sunac, Rhus Vernix. (c) The hop-tree, Ptelea tryfoliata.—Virginia dogwood. (a) The gliky cornel, (cornus Adogwood.

Manica *dogwood.

Manica *dogwood.

Male Trees of the dogwood.

Male Trees of the twig th

dog-wrench (dog'rench), n. A spanner having a handle so that it can be turned like a crank. in breaking dangerous jams on falls and a handle so that it can be turned like a crank. rapids, and in moving logs from other difficult dohemic $(d\bar{o} - hem'ik)$, a. [do(minantly) + positions.

hemic (hematite) + m(agnetite) + -ic).] In petrog., dominantly hemic. Used in the quantitative classification (see $\pm rock$) to describe divisions of igneous rocks characterized by having hemic uninerals (normative magnetite, hematite) dominant over tille minerals (normative titanite, ilmenite, perofakite), within the limits $\frac{H}{T} \langle \hat{i} \rangle \hat{j}$.

dolang (dō'läng), n. [Tagalog dolang, a table, = Bisaya dolang, a tray, pan, trough.] In the Philippine Islands, a low table, used to eat from.

2. In organ-building, a very soft dolcan, n. stop of the flute class, having pipes wider at the top than at the bottom. Also dulcan.

dolcian (dol'si-an), n. [See dolciano.] In organ-building, a reed-stop. Also dulcian.

Dolcinist (dol-sē'nist), n. In eccles. hist., an adherent of the party of Dolcino, a leader of the sect called the Apostolic Brethren.

dolcissimo (dol-shās'si-mā)

dolcissimo (dōl-chōs'si-mō), n. [It., superl. of dolce, < L. dulcis, sweet.] In organ-building, a very soft stop of the flute or string class.

dole⁶ (dŏl), v. t. [F. doler, pare, OF. doler, hew, plane, ≺ L. dolare, hew, plane.] To pare and thin (leather or skins). N. E. D.

dolenic (dō-len'ik), a. [do(minantly) + lenic (< le(ucite) + n(ephelite) + -ic).] In petrog., dominantly lenic. Used in the quantitative classification (see *reck1), to describe divisions of igneous rocks having the lenads (normative leucite, nephelite, and the sodalites) dominant over normative feldspar, within the limits L < 7 > 4.

dolente (dō-len'te), a. [It., < L. dolens (dolent-): see dolent.] In music, sad, plaintive.
dolerine, dolerin (dō'le-rin), n. [Gr. δολερός, deceptive (< δόλος, deceit), + -ine².] A name given by Jurine to a talc-schist, found in the Alps, containing feldspar and chlorite as essential constituents.

dolerite, n.—Concretionary dolerite. Same as pillow *basalt.

dolfin, n. A simplified spelling of dolphin.
dolichellipsoid (dol'ik-e-lip'soid), n. [Gr.
δολιχός, long, + E. ellipsoid.] In anthrop., an
elongated cranium of ellipsoid form. G. Sergi

(traus.), Var. of the Human Species, p. 49. dolichocephal (dol'i-kō-sef'al), n. A dolicho-

cephalous person.

dollchocercic (dol'i-kō-ser'sik), a. [Gr. δολιχός, long, + κερκίς, radius of the arm.] Having
the forearm disproportionately long in relation
to the arm. Also written dolichokerkic.

dolichocerous (dol-i-kos'e-rus), a. [Gr. δολιχός, long, + κέρας, horn.] 1. Having long horns' or antennæ.—2. Of or belonging to the Dolichocera, a subtribe of Muscides in Latreille's classification. Syd. Soc. Lex.

dolichocnemic (dol'i-kok-nē'mik), a. [Gr. δολιχός, long, + κνήμη, the leg, tibia.] Having long legs. Philos. Trans. Roy. Soc. (London),

long legs. Philos. Trans. Roy. Soc. (London), 1897, ser. B, p. 173.
dolichofacial (dol'i-kō-fā'shial), a. [Gr. δολιχός, long, + L. facies, face, + -all.] Having a long face: same as leptoprosopic. Jour. Anthrop. Inst., XVIII. 23.

dolichohieric (dol'i-kō-hī-er'ik), a. [Gr. δολιχός, long, + lερόν, sacrum.] Characterized by a disproportionately long sacrum.

dolichokerkic, a. Same as *dolichocercic.
dolicholekanic (dol'i-kō-le-kan'ik), a. [Gr.
δολιχός, long, + λεκάνη, dish (pelvis), + -ic.]
Same as *dolichopelvic. Turner.

dolichopellic (dol'i-kō-pel'ik), a. [Gr. δολιχός, long, + πέλλα, a basin (taken, like L. pelvis, a basin, in a modern sense 'pelvis').] Same as *dolichopelvic.

dolichopelvic (dol'i-kō-pel'vik), a. [Gr. δολι-χός, long, + L. pelvis, basin (pelvis), + -ic.] Characterized by a pelvis which has a disproportionately long anteroposterior diameter.

dolichopodous (dol-i-kop'ō-dus), α. [Gr. δολι-χόπους, ζ δολιχός, long, + πούς (ποδ-), foot.] Having disproportionately long feet.

dolichoprosopous (dol'i-kō-prō-sō'pus), a. [Gr. δολιχός, long + πρόσωπον, face.] Same as *dolichofacial.

Dolichosauria, n. pl. 2. A group of Pythonomorpha, or mosasauroid reptiles, containing those with the rami of the jaw united by sutural symphysis. Variously considered as a superfamily, suborder, or order. Also Dolicho-

dolichosaurian (dol'i-kō-sâ'ri-an), a. and n.
I. a. Related to or having the characters of the Dolichosauria.

H. n. One of the Dolichosauria.

Dolichosoma (dol'i-kō-sō'mā). n. [NL., ζ Gr. δολιχός, long, + σωμα, body.] A genus of stegocephalous Amphibia from the Carboniferous and Permian formations, having a relatively small triangular skull with tapering snout and over 150 vertebræ.

dolichotmema (dol'i-kot-mē'mā), n.; pl. doli-chotmemata (-ma-tā). [NL., < Gr. δολιχός, long, + τμῆμα, section.] In bryot., a filiform cell which ruptures and sets free the gemma of a moss.

dolicho-uranic (dol'i-kō-ū-ran'ik), a. Same as *dolichuranic. F. Russell, in Amer. Anthropologist, Jan.-March, 1901, p. 42.

dolichuranic (dol'i-kū-ran'ik), a. [Gr. δολιχός, long, + ουρανός, palate.] Having a long palate; that is, in craniom., having a palatomaxillary index less than 110. Turner.

dolina (dō-lē'nā), n. [Russ. dolina, dim. of doli, a dale, valley.] A vertical cavity, usually leading into a cave, dissolved out of some

soluble rock, such as limestone, by descending waters. Geikie, Text-book of Geol., p. 477. doll2, n. 2. A simple contrivance on a Jacquard loom which indicates to the weaver that something is wrong with the action of the pattern-card cylinder. Also called detector and blockhead-board.

dollar, n.—Bell dollar. See *bell1.—British dollar, a silver dollar struck at the branch of the British Mint



British Dollar. Two thirds size of original,

established at Hongkong in 1866. It was current for a few years at the same value as the Mexican dollar which it was intended to supersede.—Cannon dollar, a Mexi-can or other pillar dollar.—Carolus dollar, the old pillar dollar of Spain. This dollar remains the standard



c. Carolus Dollar.
Two thirds size of original.

coin of the Malay states.—Conant dollar, the new silver dollar struck for the Philippine Islands in 1904: so called from Charles A. Conant, financial adviser of the Philippine Commission.—Dog dollar, an English name for the lion dollar of Holland (see dollar), the chief metallic currency of Maryland in 1701.—Dollar of Scotland, a silver coin of Charles II., struck in 1678.—Globe dollar, the Spanish-American silver piece of eight, with the device of two globes resting on the waves



Globe Dollar.
Two thirds size of original.

between the pillars; it first appeared in 1728.—Holey dollar, a Spanish silver dollar from which a small circular piece, called a dump, had been struck. It was circulated by order of the government of New South Wales in 1813, the object being to keep the silver coins in the colony. It was also current in Tasmania. [Australia.]—Independent dollar, a silver dollar or peeo of Chile, coined in 1817.—Maximilian dollar, the Mexican dollar or peeo



Ke Maximilian Dollar. vo thirds size of original.

of the emperor Maximilian (1864-67).— Mexican dollar, the silver dollar or peso coined in Mexico, extensively



Mexican Dollar.
Two thirds size of original.

used as a circulating medium in the Far East, and having a present weight of about 417.6 grains, or 377.25 grains of fine silver.— Morelos dollar, a silver dollar or peso coined in Mexico in 1812-13 by the republican general Morelos.—Pillar dollar. See pillar.—Republican

dolomitize

dollar, the dollar struck in Mexico without the king's head, after 1810.—Rigsbank dollar, a silver coin issued by the National Bank of Denmark in 1813, with a nominal value of about 48 cents; also, a silver coin issued by the same bank in 1841, weighing 222.986 grains, 875 fine.—Ring dollar, a silver dollar from which a planchet was cut in order to keep the piece in local circulation, as in St. Vincent and the Leeward Islands. See holy *dollar.—Sand dollar, 1808—11.—Scale dollar, the Mexican silver dollar with the device of a pair of scales, first struck in 1868-69.—Bicilian dollar, a Sicilian silver coin, the oncia d'argento, which came into Malta subsequent to the time of the British protectorate in 1797, and had a real value of about 4 shillings sterling.—Sun dollar, the Mexican silver dollar or peso coined at Guanjuato, which is preferred by the Chinese of the northern ports of China. Also known as the Shanghai dollar.

dollar-fish, n. 3. A flat, disk-shaped echinoderm, Echinarachnius parma, found along the Atlantic coast. Also known as coke-urchin and sand-dollar.—4. The John-dory, Zeus australis: so called from the mark on its side. The fishermen of Roman Catholic countries hold this fish

and sand-dollar.—4. The John-dory, Zeus australis: so called from the mark on its side. The fishermen of Roman Catholic countries hold this fish in special respect, as they recognize in a black round spot on its side the mark left by the thumb of St. Peter, when he took the piece of money from its mouth. Günther, Study of Fishes, p. 451.

dollar-leaf (dol'är-left), n. The round-leaved wintergreen, Pyrola rotundifolia: so called from the shape and size of the leaf.

dollfish (dol'fish), n. A species of butterfly-fishes, Chætodon humeralis. [Panama region.]

dolly², n.—Dolly catch. See *catch!

dolly³, n. 5. A machine for washing pieces of cloth. The pieces are sewn together into an endless

cloth. The pieces are sewn together into an endless band, which is then passed through a detergent liquor and afterward wrung between two heavy rollers.

and afterward wrung between two heavy rollers.

dolly-car (dol'i-kär), n. A small car attached to a cable, which is used for drawing cars up an incline. The dolly-car is placed behind the cars to be drawn up, and, being attached to the cable, pushes the cars up the incline.

dolly-pedal (dol'i-ped'al), n. A foot-treadle to hold down the upper or forming die of the forming-tool used in welding up links of handmade wrought-iron chain.

dolly-tub (dol'i-tub), n. 2. A tub in which a dolly is used. See dolly3, 4.

Dolly Varden. 3. A large hat with a brim overloaded with flowers, worn at one time by women.

by women.

dolmen-tumulus (dol'men-tū'mū-lus), n. dolmen, or cell composed of large stones, covered by a mound of earth. Probably many dolmens



Dolmen-tumulus of Kercado, Morbihan, France.

were originally so covered, but gradually were denuded by tillage of the surface soil and by erosion. **dolomedine** (dol-ō-mē'din), a. Of or belong-ing to the araneid genus *Dolomedes*.

dolomedine (dol-ō-mē'din), a. Of or belonging to the araneid genus Dolomedes.

dolomite, n.—Bertie dolomite (Bertie township in Ontario), a stage of the New York series of formations represented by magnesian limestones, constituting a final phase in the Silurian of the Appalachian region. The formation is characterized by its remarkable profusion of merostome crustaceans of the genera Eurypterus, Pterygotus, Eusarcus, etc., and has commonly been known as the Eurypterus beds, corresponding in position to similar fossiliferous beds of Great Britain and the Baltic provinces.—Gashed dolomite, one in which there are narrow cavities resembling gashes. Amer. Jour. Sci., April, 1906, p. 291.—Guelph dolomite, in geot., a division of the Upper Silurian rocks highly developed in the Province of Ontario and notable for its profusion of fossiis. The fauna extends eastward into New York where it is found in dolomites intercalated among the layers of the Lockport limestone. It is also represented in the Silurian dolomites of Wisconsin, Ohio, Indiana, and Iowa.—Knox dolomite, a mass of dolomite in Tennessee, the lower 2,000 feet of which are referred to the Upper Cambrian, while the upper part contains typical Beckmantown fossiis.—Little Falls dolomite, a division of the Triassic rocks of the Alps and the Tyrol.—Namur dolomite, a division of the Carboniferous limestone in Belgium, lying below the Visé limestone and above the Dinant limestone.—Plate dolomite, any dolomite rock which breaks into thin plates: specifically, the middle member of the upper Zechstein Permian formation of Hesse, Germany, consisting of massive or honeycombed plate dolomites, included between the lower and upper gypsum-bearing clay members.—Portlandian dolomite, a division of the Jurassic rocks in the Jura Mountains, and equivalent, as a part to a whole, to the Portland sands of the Portland Islands.—Sohlern dolomite, a division of the Triassic rocks in the southern Alps.

dolomitized, ppr. dolomitizing. [dolomite +

-ize.] To convert (limestone) into dolomite. Rep. 1 p. 400. Brit. Ass'n Advancement of Sci., 1900,

p. 400.
Doloneis (dō-lō-nē'yā), n. [Gr. Δολώνεια, < Δόλων, Dolon, < δόλος, deceit: see dole³.] The story of the spy Dolon, which is the main subject of the tenth book of Homer's Iliad. It is supposed by many critics not to be part of the original poem, but a later interpolation.

dolose (dō'lōs), a. [L. dolosus, < dolus, deceit: see doles.] Deceitful; crafty: involving criminal intent.

dolphin, n. 10. In lumbering, a cluster of piles which a boom is secured. [U. S.]-Same as dolphin-fly.—Black dolphin. Same as collier *plant-louse.—Green dolphin, Nectarophora pts.—Small dolphin, the smaller of the two species of dolphin, Coryphena equisetis. See Coryphena.

dolus (do'lus), n. [L.: see dole3.] In civil law, malicious or criminal intent; fraud; de-In civil ceit: same as dole3.

Dom. An abbreviation of Dominion.
D. O. M. An abbreviation (a) of the Latin
Datur omnibus mori, 'it is given unto all to die'; (b) of the Latin Deo Optimo Maximo, 'to the best and highest God.'

domagnesic (dō-mag-nō'sik), a. [do(minantly) + magnesia + -ic.] In petrog., dominantly magnesic; used in the quantitative system (see *rock1), to describe divisions of igneous rocks in which magnesia is dominant over

ferrous iron within the limits $\frac{\text{MgO}}{\text{FeO}} < \frac{7}{4} > \frac{4}{3}$.

domain. n. 8. In math.: (a) A set of numbers when the sums, differences, products, and quotients of any numbers in the set (excluding only the quotients of division by 0) always yield as results numbers belonging to the set. (b) The space within which a given function is developed to the set. able in a series in powers of z-a: termed the domain of the point, z=a.—9. In function-theory, the region of the z-plane within a circle about a as center with any radius less than the distance from a to the nearest critical point: called the domain of its center a. For a power series (that is, a series of ascending positive integral powers, $a_0 + a_1x + a_2x^2 + \dots$) if there is a frontier value B such that when |x| < B there is absolute convergence but when |x| > B there is divergence, the open region (B) [points within a circle whose center is at 0 and radius B] is called the domain of the series.— Domain of rationality. Same as *domain, B (a).—Galois domain. If f (x)=0 is an equation in the domain G and of the nth degree with distinct roots a, a_1 , ..., a_{n-1} , then the domain $G(a, a_1, \dots, a_{n-1})$, obtained by the adjunction of all its roots to G, is called the Galois domain of the equation f (x)=0. Thus the roots of the cubic $x^2 + 3x^2 - 2x - 6 = 0$ are -3, $\pm \sqrt{2}$; hence its Galois domain is $G(1, \sqrt{2})$. the distance from a to the nearest critical

domalkalic (dō-mal-kal'ik), a. [do(minantly) the distance (do-mai-kai ik), a. [ab(minanty)]

+ alkalic.] In petrog., dominantly alkalic.
Used in the quantitative classification (see *rock*), to describe divisions of igneous rocks having alkalis dominant over lime in the salic minerals (normative feldspars and feldspathoids), and other divisions having alkalis dominant over magnesia, ferrous iron, and lime in the femic (normative ferromagnesian) minerals, within the limits

 $\frac{K_2O' + Na_2O'}{C_2O'} < \frac{7}{4} > \frac{5}{3}$ and $\frac{MgO + FeO + CaO''}{V_2 - O' + Na_2O''} < \frac{2}{5} > \frac{1}{7}$ K20"+ Na20"

respectively. The first are rangs of classes I, II, III; the second rangs of classes IV and V.

domatic (do-mat'ik), a. [Gr. "δωματικός, ζ δωμα(r-), house: see dome, n.] Of or pertaining to a dome: as, domatic cleavage: the domatic class of crystals: see *clinohedral and *symmetry

domatium (dō-mā'ti-um), n.; pl. domatia (-ä).
[NL., ζ Gr. δωμάτιον, dim. of δωμα, a house.] A shelter formed on certain tropical plants for the protection of beneficial insects, especially mites and ants. See *acarodomatium.

The acarodomatia are found at the angles of the veins on the back of the leaves and are hollowed out in the tissue of the nerves. The ant-shelters occur in the intennodes which are hollow at a part only of their length; the internodes are fusiform, and the domatia in the part at the greatest diameter where there are one or two openings which at first are circular, but in the older and woody shoots become elongated and may reach a length of 3 cm. and woody shoots seemlength of 3 cm.

Jour. Roy. Micros. Soc., Aug., 1904, p. 427.

domatophobia (dō'ma-tō-fō'bi-ä), n. [NL., < Gr. $\delta \omega \mu a(\tau$ -), house, + - $\phi o \beta \iota a$, fear.] A morbid repugnance to, or actual fear of, remaining within the four walls of a room.

dome¹, n. 6. In geol., an anticlinal fold whose axis equals or approximates a point; an anti-clinal fold with quaquaversal dip. Domes are most commonly produced by laccoliths, but they may be due to intersecting folds.

It will be too great a digression to discuss here whether the Weald dome was breached by a branch of the Rhine running from the area of the channel toward the North

Sea, or by the lower Rhine emptying into the Atlantic through the English Channel. Geog. Jour. (R. G. S.), IX, 587.

evonic volumnio. See wroteano.— wnispering-dome, a cupola whose surface is such as to produce a very perfect echo, a person at one point hearing what is said even in a low tone at the opposite point. Compare whispering-gallery, under gallery.

dom. econ. An abbreviation of domestic

dome-kiln (dom'kil), n. A form of lime-burning or coke-making retort in which the roof is formed by a spherical arch or dome, as distinguished from the simple shaft-kiln and the ring-kiln.

Domestic piracy, science. See *piracy, *sci-

domesticable (dō-mes'ti-ka-bl), a. [NL.*do-mesticabilis, < ML. domesticare, domesticate.] Capable of being domesticated: as, domesticable animals.

domesticator (do-mes'ti-kā-tor), n. One who domesticates plants and animals.

Taking the gifts of nature: Man is then a quarryman or miner, a gleaner, a fisherman, a hunter, and later a domesticator.

Smithsonian Rep., 1896, p. 643.

dome-top (dom'top), n. The topsheet of the steam-dome on a boiler.

domicil, v. t. A simplified spelling of domidomicile, n. 3. The place at which a bill of

domicile, v. t. 2. To make payable, as a bill of exchange, at a specified place.

domiciliaris (dom'i-sil-i-ā'ris), n.; pl. domiciliares (-rēz). [NL., < L. domiciliam, domicile.]

An animal which uses another merely as a domiciliarial which uses another merely as a domiciliaria which uses a merely as a merely as a domiciliaria which uses a merely as a merely as a merely as a domiciliaria which uses a merely as a me cile, and does not prey upon it or share its food. The most common examples are sponges which attach themselves to, and bore into, shell-fish. [Rare.]

They are, more definitely, domiciliares, and excavate their burrows . . . solely for the purpose of a residence or domicile.

Smithsonian Rep., 1886, i. 320.

dominance, n. 2. In biol., the visible manifestation by a cross-bred organism and by some of its descendants of one or two mutually antagonistic parental characters to the exclusion of the other.

In each of these cases more or less definite dominance of one character has been found.

Bateson and Saunders, Rep. Evol. Com. Roy. Soc., L. 139.

dominant. I. a. 3. Having the crown free to light on all sides because of greater height. e crown *class.-4. Characterized by or exhibiting dominance. See *dominance, 2:—Dominant character, one of the antagonistic or mutually incompatible characters of the parents of a cross-bred organism, that is exhibited or visibly manifested by the cross-bred organism and transmitted to descendants. See *inheritance.—Dominant estate. Same as dominant tenement (which see, under dominant).—Dominant group. See subdominant *group.—Dominant harmony, idea. See *harmony, *idea.

II. n. 2. In biol., when the cross-bred offspring of parents with antagonistic or mutually exclusive characters visibly exhibits character of one parent, while it does not visi-bly exhibit but is able to transmit to descendants the antagonistic character of the other parent, then the character (a) which is manifested, and the cross-bred organism (b) which exhibits it, and (c) those of its descendants which exhibit it, and (d) the parental character, and (e) the parent that exhibits it, are all called dominants. On the other hand, the parental character which is not visibly manifested by the cross-bred organism, but is transmitted to and visibly manifested by some of its descendants and their descendants, is called a recessive, as are also the organisms that exhibit it. See *inheritance.

3. The greatest of a set of numbers without recorded to sign.

regard to sign.—4. In petrog., in the quantitative classification (see *rock1), a factor which dominates over another between the ratios † and §.—Extracted dominant, in biol., a dominant of pure blood; one that does not exhibit nor transmit the corresponding recessive character.—Under dominant, in music, the fifth below the key-note, that is, the same as subdominant. See *undertone, 4, and under *scale.—Upper dominant, in music, same as dominant, when it is to be distinguished from the under dominant; also, over dominant. over dominant.

domine (dō'mi-nā), n. [Sp., a teacher of Latin, = E. domine, dominie.] A name applied to a fish, the black escolar, Epinnula magistralis, in the West Indies.

doming (dom'ing), n. [dome, v., + -ing1.] Producing an anticlinal fold whose axis is a point and whose sides dip in all directions: the reverse of *basining (which see).

They sometimes disturb the prevailing dip of the sediments and cause local doming, as on the divides to the southeast and southwest of Bald Mountain.

Contrib. to Econ. Geol., U. S. Geol. Surv., 1902, p. 38.

See *volcano.—Whispering-dome, a face is such as to produce a very perfect one point hearing what is said even in a poposite point. Compare whispering-galapposite point. Compare whispering-galapposite point.

bling that of the Plymouth Rock. **Domino loo.** See *loo². **domiric** (dō-mir'ik), a. [do(mina miric (dō-mir'ik), a. [do(minantly) + mir m(agnesium) + ir(on)) + -ic.] In petroa dominantly miric. Used in the quantitative classifi-cation (see *rock!), to describe divisions of igneous rocks having magnesia and ferrous iron dominant over lime in the femic (normative ferromagnesian) minerals, within the limits $\frac{MgO + FeO}{CO''} \langle \frac{1}{4} \rangle \frac{1}{4}$. Sections of rang in classes TV and V.

IV and V. domirlic $(d\bar{o} - m\dot{e}r' lik)$, a. [do(minantly) + mirl (< m(agnesium) + ir(on) + l(ime)) + -ic.] In petrog., dominantly mirlic. Used in the quantitative classification (see **rock* l), to describe divisions of igneous rocks in which magnesis, ferrous oxid, and lime are dominant over potash and soda in the femic (normative ferromagnesian) minerals, within the limits $\frac{MgO + FeO + CaO''}{K_3O'' + Na_2O''} < \frac{1}{4} > \frac{1}{8}$. Rangs in classes IV and V.

K₀0" + Na₀0"

domitic² (dō-mit'ik), a. [do(minantly) + mit ((m(agnetite) + i(lmenite) + t(itanite)) + -ic.]In petrog., dominantly mitic. Used in the quantitative classification (see *rock 1), to describe divisions of igneous rocks in which mitic minerals (normative magnetite, hematite, illennite, etc.) are dominant over polic minerals (normative pyroxene, olivin, akermanite).

within the limits $\frac{PO}{M} < \frac{2}{\delta} > \frac{1}{\delta}$. Order 4 in classes IV and V.

domoid (dom'oid), a. [dome + -oid.] Some-

what dome-shaped.
domolic (dō-mol'ik), a. [dom(inantly) + ol(ivin) + -ic.] In petrog., dominantly olic. Used in the quantitative classification (see *rock1), to describe divisions of igneous rocks in which normative olivin and akermanite are dominant over normative pyroxene, within the limits $\frac{P}{O} < \frac{1}{4} > \frac{1}{4}$. Sections of orders in classes IV and V.

Dom. Proc. An abbreviation of the Latin Domus procerum, 'house of peers,' or 'house of lords,' the upper branch of the British parliament.

don³ (don), n. [A dial. variant of dan².] In sea-fishing, a buoy used to mark a fishingground.

When productive ground is discovered a "don," or buoy, is placed in the sea, with a red or black flag by day and a white globe light close to the surface at night.

Sci. Amer. Sup., Sept. 26, 1903, p. 23182.

Sci. Amer. Sup., Sept. 26, 1903, p. 23182.
donaciform (dō-nas'i-form), a. [NL., Donaz (Donac-) + L. forma, form.] Having the form of the pelecypod genus, Donax.
donarium (dō-nā'ri-um), n. [NL., appar. in allusion to L. donarium, a votive gift: see donary.] A supposed new chemical element, announced by Bergmann in 1851, shown afterward to be thorium. ward to be thorium.

ward to be thorium.

doncella² (don-sel'ä), n. [Porto Rican Sp.: see damsel.] Either of two trees of the genus Byrsonima of the family Malpighiaceæ, B. spicata and B. lucida, especially the former. They yield hard, useful woods. See surette.

Donders' law. See *law!.

Dondia (don'di-ä), n. [NL. (Adanson, 1763), named in honor of Giacomo di Dondi (1298-1359), a physician and botanist of Venice.] A genus of dicotyledonous plants of the family Chenopodiaceæ. See Suæda.

donga (dong'gä), n. [S. African.] In South Africa, a channel formed by the action of water; a ravine; a gully.

ter; a ravine; a gully.

dongola (don'gō-lā), n. [Appar. named from
Dongola in Nubia, N. E. Africa.] A general term for leather made from goatskins or

term for teather made from goatskins or sneepskins with either a bright or a dull finish.—
Dongola process, race. See *process, *race.
dongon (dong-on'), n. [Also dungon; < Bisayan dongon.] In the Philippine Islands, a tall tree, Tarrietia sylvatica, of the family Sterculiacee, with keeled fruit. It yields logs 50 feet long and 30 inches square, which are used in the construction of buildings and bridges and as keels for vessels.
doni? (do'ni), n. In Guam, a name of several species of Cansicum, especially of varieties of

donin (do in), n. in dualn, a name of several species of Capsicum, especially of varieties of Capsicum annuum and C. frutescens.
donium (dō'ni-um), n. [NL., appar. < L. donum, a gift: see donate.] A supposed new chemical element, announced by Richardson in 1836, but afterward shown to be beryllium. donkey, n. 3. In mech., a subsidiary apparatus for carrying a weight or load, or coming into action to steady and support a primary element.—4. A driving-frame or truck acting as a tractor on rails, to pull or haul a weight The turntable is 70 ft. long and is operated by a 10-hp, direct-current motor of the street railway type geared to a independent traction wheel, the driving combination being supported in a pivoted frame, or "donkey," which rests with all its weight upon the turntable track, even when the table is tipped by a locomotive.

**Bull donkey, in lumbering, a large donkey-engine which, by drum and cable, drags logs from the place where they done the door when it is opened and hold it open.

Bull donkey, in lumbering, a large donkey-engine which, by drum and cable, drags logs from the place where they are yarded.—Road donkey, a donkey-engine, mounted on a heavy sled, which drags logs along a skid-road by winding a cable on a drum. It has a second drum for the haul-back.—Spool donkey, a donkey-engine equipped with a spool or capstan, instead of a drum, for winding cable.—Yarding donkey, a donkey-engine, mounted upon a heavy sled, used in yarding logs by drum and

donkey-boiler (dung'ki-boi 'lèr), n.

donkey-boiler (dung'ki-boi"ler), n. 1. A small boiler, usually upright, employed when only a small power is required.—2. Naut., a small boiler which furnishes steam when there are no fires in the main boilers. donkey-drop (dung'ki-drop), n. In cricket, a ball bowled very slowly, which seems easy to hit. [Slang.] donkey-party (dung'ki-pär-ti), n. An entertainment in which the chief amusement is a game in which the players attempt to pin, blindfolded, a paper tail, in the right place, upon the picture of a tailless donkey. donkey's-eye (dung'kiz-ī), n. Same as horse-eye, a sea-bean, Muscuna urens.

donkey's-eye (dung'kiz-ī), n. Same as horse-eye, a sea-bean, Muscuna urens.
donnée (don-nā'), n. [F., a thing given, a condition, datum; pp. fem. of donner, give.]
The motif or fundamental idea of a literary or dramatic composition.

Another story, a very good story, . . . arrests attention for a reason irrelevant to its goodness, and that is the resemblance of its "donnée" to Mr. Kipling's "His Private Honor."

N. Y. Times, Sup., July 30, 1904.

Donop's attack. See *attack.
donzella (don-zel'š), n. [It.] A damsel; a
young lady: as, a 'beautiful donzella.' Carlyle.
doodle-bug (dö'dl-bug), n. 1. The larva of any
cicindelid beetle. [Southern U. S.]—2. The
larva of certain species of the neuropterous
genus Myrmeleon, which build pits in the
sand for the capture of ants and other insects.
Called also ant-tion. Called also ant-lion.

doog (dög), n. [E. African (Somali).] The native name of a tabanid fly, Pangonia tricolor, common in Somaliland where it swarms on camels and other domestic animals, constantly drawing blood. Proc. Zool. Soc. London, 1900, I. 9.

doom, n.—To false a doom i, in Scots law: (b) To bring an action to set aside a decree.
 doom-ring (döm'ring), n. A ring of stones, within which the primitive Norse courts of justice were held. N. E. D.

justice were held. N. E. D.

door, n.—Charging door, the door through which the charge is introduced into a furnace or cupola. In a reverberatory furnace the charging door is at one side; in a blast-furnace or cupola, it is near the top, on a level with the charging platform, and the fuel, as well as the ore or metal to be melted, is introduced through it.—Dutch door, a door divided in two horizontally, so that one half may be open while the other is closed.—The open door, commercial intercourse and opportunities for all nations on the same terms: a very modern phrase applied particularly to foreign trade with China when there was danger that the Chinese government was about to grant to some of the powers exclusive control of certain ports and sections of the empire; hence, the 'open door policy' advocated by Great Britain, the United States, and Japan.—Underwriters' door, a door so made as to conform to certain requirements of the fire-insurance companies: as, a wooden door covered on both sides and all edges with tin-plate carefully soldered. Underwriters' foor and other similar terms are in use.—Venetian door, a door, a door-cam different side (and usually above) being filled with glass.

door-cam (door kam), n. A device for retaining the window in a cavining door of the state.

door-cam (dor'kam), n. A device for retaining the window in a carriage-door at any height, or for preventing it from rattling. door-chain (dor'chān), n. A short chain used

in fastening a door, usually so that it can be

opened only a few inches.
door-check (dor'chek), n. A combined spring
and pneumatic device for controlling the closing and pneumatic device for controlling the closing of a door, especially a car-door. The door when left open is automatically closed by the spring, the movement being controlled by a piston which moves in a cylinder filled with compressed air: the air, first compressed by the movement of the door when opened, slowly escaping through a small opening, allows the piston to move, and, through suitable connections, permits the spring to close the door gently and without jar or noise. The movement of the piston is controlled by valves that may be set at any pressure required.

door-fastener (dōr'fas'ner), n. Any appliance for fastening a door; specifically, a fixture attached to a door to prevent it from being opened beyond the length of a short chain. When the end of the chain is placed in a slot in the fixture it cannot be drawn out until the door is closed. Often called door-chain.

door-key (dôr'kē), n. A key for locking and unlocking a door.

door-man (dor'man), n.; pl. door-men (-men) An officer or attendant stationed at a door to guard it, maintain order, etc.; a doorkeeper. door-money (dor'mun'i), n. The money taken at the door or entrance to any place of enter-tainment where an entrance-fee is charged.

doornboom (down bom), n. [D. doornboom, thorntree.'] In South Africa, a thorny mimosa, Acacia horrida, growing as a shrub or small Acacia horrida, growing as a shrub or small tree, very common along the course of the Karoo rivers, and very often used for hedges. The leaves and pods are eaten by goats and sheep in times of scarcity. Like many other mimosas this species is rich in tannin and yields a gum somewhat like that of gum arabic, but of an amber color. The bark is much used for tanning in South Africa. See karoo thorn, under thorn!. door-roller (dor'rô'ler), n. A contrivance for making a sliding door run easily; generally a wheel which runs on a rail at the top or the bottom of the door. There are also patented antifriction rollers. antifriction rollers.

door-stop, n. 3. A strip of carriage-lace, or metal, used to prevent a carriage-door from opening beyond a fixed point.

door-track (dor'trak), n. A rail secured to a

plank or joist to receive the rollers of a sliding door.

door-valve (dor'valv), n. A flat valve hinged

at one edge and opening to allow passage of fluid by pressure from below, as a trap-door is lifted. Called also a flap- or clack-valve. Two door-valves, back to back, form a butterfly-

doorwa (dör'wä), n. [Skt. dūrvā, whence Pali dubbā, Hind. dūb, E. doob.] Same as doob. dop3 (dop), n. [Cape D. dop, a tin cup in which vineyard workers receive, several times a day, their rations of wine; lit., a shell: see dop2.] Cape brandy of a peculiarly fiery type. Also as lad cane smale. called cape smoke.

The Naval Brigade . . . went for the bottles like a carticad of bricks. Blessed if they weren't Dop! "Never mind," says the Naval Brigade, "if the quality ain't up to Admiralty pattern, we'll have to issue a double ration"—and he did—so help me!

J. Raiph, in War's Brighter Side, p. 170.

and he did—so help me!

J. Ralph, in War's Brighter Side, p. 170.

dope, n. 3. In the manufacture of dynamite, to be used as an explosive agent, the liquid nitroglycerin, which is the most important ingredient, is absorbed by a solid material in fine powder; such absorbent is called the dope, and it may be inert as regards explosion, or active—in the latter case simply combustible, or itself explosive.

4. Opium, especially the thick treacle-like preparation used in opium-smoking. [Slang.]—5. Any drug, such as opium, laudanum, morphine, cocaine, hydrate of chloral, hashish, etc., which has the property of inducing sleep or of stupefying; a narcotic. [Slang.]—6. A person under the influence of, or addicted to the use of, some dope. [Slang.]

dope (dop), v.; pret. and pp. doped, ppr. doping.

I. trans. To drug; stupefy with drugs, such as 'knock-out drops' (hydrate of chloral), or the like: as, to dope a race-horse. [Slang.]

H. intrans. To indulge habitually in the use of opium or other drugs either for the pleasurable sensations produced or as anestication.

pleasurable sensations produced or as anes-

thetics. [Slang.]
dope-book (dop'buk), n. A misc
collection of racing information. A miscellaneous

dope-fiend (dop'fend), n. A habitual user of drugs, such as opium or cocaine. [Slang.] dope-sheet (dop'shet), n. A list of race-horses, giving the record of their performances in

giving the record of their performances in previous races. [Racing slang.] dopey (do'pi), a. See *dopy. dopolic (do-pol'ik), a. [do(minantly) + pol ((p(yroxene) + ol(ivine)) + -ic.] In petrog., dominantly polic. Used in the quantitative classification (see *rock1), to describe divisions of igneous rocks in which polic minerals (normative pyroxene, olivin, akermanite) are dominant over mitic minerals (magnetite, PO. ilmenite, titanite) within the limits $\frac{PO}{M} < \frac{7}{4} > \frac{5}{5}$.

dopotassic (dō-po-tas'ik), a. [do(minantly) + potassic.] In petrog., dominantly potassic. Used in the quantitative classification (see *rock1), to describe divisions of igneous rocks in which potash is dominant over soda in the salic minerals (normative feldspars and feldspatholds) within the limits $\frac{K_20}{Na_20} < \frac{7}{4} > \frac{5}{8}$.

Same as doorweed. doppel-flote (dop'l-fle'te), n. [G., 'double , n. Same as door-flute.'] In organ-building, a stop of the flute class, the pipes of which have two mouths,

giving a peculiarly sonorous tone.

doppio (dop'piō), doppia (dop'piā), a. [It.,
masc. and fem., < L. duplus, dupla, double: see masc. and iem., \(\cap L\). duptus, dupta, double: see double.] In music, double: as doppio movimento, doppio tempo, double movement, double time (twice as fast); doppio valore, double value (twice as slow), pedale doppio, with two parts for the pedals: lira doppio, a double or bass lyre: and so for other instruments.

doppione (dop-pio'ne), n. [It.: see doubloon.]

1. A gold coin of Louis XII. of France. during his occupation of the Milanese (1500-12)

A gold coin of 10 scudi, struck by the Duke of Savoy in 1641, during the siege of Coni.

Dopplerization (dop*ler-i-zā'shon), n. The application of Doppler's principle that from a source of waves, approaching or approached, the waves reach the receiver in greater number that the content of the same and t ber than when the source and receiver are relatively at rest, and vice versa. See Doppler's *principle.

If the point-source is in motion, the pan-potential requires Dopplerisation as well as the ordinary potential.

Nature, Jan. 1, 1903, p. 203.

Doppler's effect, principle. See *effect, *prin-

dopy (dō'pi), a. [Also dopey; $\langle dope + y^1 \rangle$] Stupid, as if under the influence of some drug; dulf; heavy. Also dopey. [Slang.]

The patients are said to be "dopey"; they are markedly prostrated, indifferent to their surroundings, and want only to be left undisturbed. Buck, Med. Handbook, VI. 686.

dopyric (dō-pī'rik), a. [do(minantly) + pyr ((pyr(oxene)) + -ic.] In petrog., dominantly pyric. Used in the quantitative classification (see *rock1), to describe divisions of igneous rocks in which normative pyroxene is dominant over normative olivin and akermanite, within the limits $\frac{P}{O} < \frac{7}{4} > \frac{4}{3}$.

doquaric (dō-quâ'rik), a. [do(minantly) + quaric (quar(tz) + -ic).] In petrog., dominantly quaric. Used in the quantitative classification (see *rock1), to describe divisions of igneous rocks in which normative quartz is dominant over normative feldspar, normative quartz is dominant over normative length within the limits $\frac{1}{F} < \frac{1}{F} > \frac{1}{2}$. Orders of classes I, II, III.

dor's (dôr), n. [Gr. 66pv, a shaft, a spear: see tree.] In the nomenclature of the spicular elements of sponges, a monaxial lance-shaped or curved rod, one end of which is sharply pointed while the other has a two- or three-adged blode. edged blade.

edged blade.

Dor. An abbreviation of Doric.

dorab (dō'rab), n. A fish, Chirocentrus dorab,
of the family Chirocentridæ, which ranges from
the Red Sea to the Malay Archipelago.

doradilla (dō-rā-dēl'yä), n. [Sp., dim. of
dorado, gilded.] 1. In Spain, the rustyback,
or stone-fern, Ceterach Ceterach, formerly considered a valuable remedy for diseases of the
spleen. See *Ceterach, 2.—2. In Mexico, a
name of several species of Selaginella, also
called flor de piedra, or stone-flower, which
grow on the bare, stony sides of cañous. The grow on the bare, stony sides of cañous. The fronds of these plants roll up when dry so as to form a ball, and remain dormant until rain falls. The dried plants are offered for sale in the markets of San Luis Potosí and other Mexican cities, and are used as remedies for diseases of the liver and for other maladies. See resurrection-plant (b).

**Doratonotus (dor a-tō-nō'tus), n. [NL., < (†)
**doratus (< Sp. dorado), gilded, + Gr. voroc,
back.] A genus of small bright green labroid
fishes found in the West Indies. D. megalepis is the common species.

[Racing Dorcas society (aor kas sō-si'e-ti). A society of women of a church whose work it is to provide clothing for the poor: so called in allusion vide ciotining for the poor: so cancel manusor to Dorcas, a disciple at Joppa who was "full of good works and almsdeeds which she did" (Acts ix. 36), including the making of "coats and garments" (ix. 39). dorcastry (dôr kas-tri), n.; pl. dorcastries (-triz). [Irreg. \(\tilde{Dorcas} + -t-ry. \)] Same as \(\tilde{Dorcas} society. \)

Dordonian (dôr-dō'ni-an), n. [F. Dordogne, a river (a conflux of the rivers Dor and Dogne) and a department of southwest France.] In geol., a division or substage of the uppermost Cretaceous in France.

Doridiidæ (dô-ri-dî'i-dê), n. pl. [NL., < Dori-dium + -idæ.] A family of tectibranchiate gastropods, having the shell completely internal, the mantle with 2 posterior lobes and a caudal filament, and the epipodia reflected. It contains the single genus *Doridium*.

doridioid (dō-rid'i-oid), a. Of or pertaining to the Doridioidea

to the Doridioidea.

Doridioidea (dō-rid-i-oid'ē-ĕ), n. pl. [NL., <
Doridium + -oidea.] A group of nudibranchiate gastropods. The liver is unbranched; the anus
median and posterior, generally dorsal, and surrounded by branched appendages which are cerata or
gills; and the mantle contains spicules. The group includes the families Polycerides, Dirididæ, Phyllididæ,
Doridopsidæ, and Corambidæ.

cudes the families Payceriae, Privade, Psythatiae, Poridopside, and Corambide.

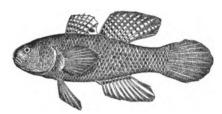
Doridium (dō-rid'i-um), n. [NL.; formation uncertain; appar. dim. of Gr. 66pv, tree, shaft, spear.] The typical genus of the family Doridiidæ. Meckel, 1809.

Dorm pennies. See *penny.
dormant, a. 5. In bot., not active or growing.

-Dormant buds, dormant eyes, potential buds; buds which do not shoot unless specially stimulated.—Dormant mine, scale. See *mine? *scale?—Dormant state, the inactive state of a plant or organ, as in winter or a protracted dry season.
dormeuse (dôr-mez'), n. [F., fem. of dormeur, sleeper, < dormir, sleep.] A coach designed to convey invalids. It had a curtained coach-top and was fitted with a cot so arranged that the passenger could either sit up or recline.

Dormitator (dôr-mi-tā'tor), n. [NL., < L.

Dormitator (dôr-mi-tā'tor), n. [NL., < L. dormitator, sleeper.] A genus of gobies found



Dormitator maculatus. (From Bulletin 47, U. S. Nat. Museum.)

in the streams of the West Indies and Mexico. characterized by the robust body and small scales. D. maculatus, the common species, has

been found as far north as the Carolinas.

dormy (dôr'mi), a. [dorm + -y¹.] In golf, noting
the condition of a player when he is as many
holes ahead of his opponent as there remain
holes to be played

holes ahead of his opponent as there remain holes to be played.

dorsal, a. 3. In phonol., pronounced with the back or middle upper surface of the tongue raised to the palate.—4. In bot., relating to the back of an organ. See back', 3(h).—Dorsal canal, cup, eye, etc. See *kcanal, etc. dorsalis (dor-sā'iis), n.; pl. dorsales (-lēz).

[NL.: see dorsal.] A blood-vessel or nerve which supplies the dorsum of any part: as, dorsalis linguæ, an artery in the dorsum of the tongue.

tongue.



apon four elliptic and four C-springs, and formerly without a driver's seat, the horses being guided by postilions.

D'Orsay bit. See *bit1.
dorse¹, n. 3. The back of a book or of a folded document.

dorsely n. 3. The back of a book or of a folded document.

dorstbranch (dôr'si-brangk), n. An animal having gills upon the back, as certain annelids.

dorsicolous (dôr-sik'ō-lus), a. [L. dorsum, back, + colere, inhabit.] Inhabiting the back of another organism. [Rare.]

dorsiferous, a. 2. In bot., borne on the back, as the sort of most ferns.

dorsifex (dôr'si-fleks), v. i. [L. dorsum, back, + fezus, pp. of flectere, bend.] To bend toward the dorsum: noting movement of the foot. Buck, Med. Handbook, IV. 223.

dorsifexion (dôr-si-flek'shon), n. [L. dorsum, back, + fexio(n-), bending.] Movement to the toes to the anterior surface of the leg. Philos. Trans. Roy. Soc. (London), ser. B., 1833, p. 48.

dorsiferious dorsification (dôr'sō-an-tō'ri-or), a. Having dorsing the back directed anteriorly: noting the posi-

tion of a child during birth, in relation to the mother.

dorsocaudad (dôr-sō-kâ'dad), adv. On the dorsal surface and the anal half of the body.

There is a pair of well-developed, brownish-colored setse arising from caudal margin, and extending dorsocaudad, as in pupe-case.

U. S. Dept. Agr., Div. Entom., Techn. Ser. 8, 1900, p. 39.

dorsocentral (dôr-sō-sen'tral), a. and n. [L. dorsoum, back, + centrum, center, + -all.] I. a. Being toward the back and central.

II. n. The undermost plate in the calyx of the Crinoidea, usually obscured in the adult

condition of stalked forms, but exposed in the stalkless genus *Uintacrinus*, and seen also in the larval stages of the recent *Antedon*: by some authors regarded as the topmost segment of the stalk. Also termed centrodorsal.

of the stair. Also termed centrocursus.

dorsocephalic (dôr'sō-se-fal'ik), a. Relating to the back and head collectively; situated on the back, or dorsal region, near the head.

dorsonasal (dôr-sō-nā'zal), a. Relating to the

bridge of the nose.

dorsonuchal (dôr-sō-nū'kal), a. Relating to the back and the neck.

dorso-occipital (dôr'so-ok-sip'i-tal), a. Relating to the back of the head and the body. dorsoposteriad (dor'sō-pos-tē'ri-ad), adv. On the back and behind.

the back and behind.

dorsoposterior (dôr'sō-pos-tē'ri-or), a. [L. dorsum, back, + posterior, posterior.] In obstet., descriptive of the position of the child during birth, when its back is directed toward the back of the mother.

dorsoradial (dôr-sō-rā'di-al). a. [L. dorsum, back, + E. radial.] Relating to the radial (outer) side of the back of the forearm, wrist, band or fingers

hand, or fingers.

dorsoscapular (dôr-sộ-skap'ū-lär), a. sum, back, + scapula, scapula.] Relating to the posterior surface of the scapula.

the posterior surface of the scapula.

dorso-ulnar (dor-sō-ul'nār), a. Relating to the ulnar (inner) side of the back of the forearm, wrist, hand, or fingers.

dorsoventrad (dôr-sō-ven'trad), adv. From the back toward the ventral side.

dorsoventrality (dôr'sō-ven-tral'i-ti), n. The condition or quality of being dorsoventral.

dorsum, n., 2. (b) In the ammonite cephalopods, the inner or umbilical margin of the conch.—4. In bot.: (a) Same as back!, 3 (h).

(b) The convex side of the girdle of a diatom.

(b) The convex side of the girdle of a diatom.

dory!, n.—Bastard dory, (a) Afish, Antionnia capros, widely distributed in both the Atlantic and the Pacific oceans. (b) An Australian fish, Zeus australis, of the family Zeides, the Australiasian representative of Zeus faber, the European 'John-dory.' [New Zealand.] (c) A broadbodled, rough-scaled, bass-like fish, Histiopterus recurrirostrie.

tongue.
d'Orsay (dor-sā'), n. [Named after Count Dorycrinus (do-ri-krī'nus), n. [Gr. δόρν, a tree, + κρίνον, a lily (see crinoid).] A genus of camerate Crinoidea from the Devonian and Carboniferous rocks having a corrugated calyx, thick calyx plates, and strongly elevated teg-

Doryichthys (dō-ri-ik'this), n. [NL., $\langle \delta \phi \rho v$, spear, $+ i \chi \theta i c$, fish.] A genus of pipe-fishes, of the family Syngnathidæ, found mainly in the Pacific. They sometimes ascend rivers.

of the family symptomess, from the Pacific. They sometimes ascend rivers. dorylid (dor'i-lid), n. and a. I. n. A member of the hymenopterous family Dorylidæ.

II. a. Of or belonging to the Dorylidæ. dorylophilous (dō-ri-lof'i-lus), a. [NL. Dorylus + Gr. φιλείν, love.] Fond of the Dorylidæ: said of the guest-insects which inhabit the pacts of ants of that family. nests of ants of that family.

There are guests of the "indifferent type," e.g. Myrmedonia, which retain more or less of the form of their non-dorylophilous relatives, and are connected by incipient and half-way transformations with one or other of the three preceding types.

**Jour. Roy. Micros. Soc., April, 1903, p. 173.

of the names of classes.] In petrog., the name of the second class of igneous rocks in the quantitative classification. (See *rock.) Rocks of this class have a preponderance of salic minerals (normative quartz, feldspars, or feldspathoids) over femic (normative ferromagnesian) minerals within the limits end (;) §. They include many granites, diorites, gab-

bros, syenites, and nephelite-syenites, with their aphanitic equivalents.

equivalents. dosalic (dō-sal'ik), a. [do(minantly) + sal ($\langle s(ilica) + al(umina) \rangle + -ic.]$ In petrog., dominantly salic. Used in the quantitative classification (see *rock), to describe that division of igneous rocks in which the salic minerals (normative quarts, feldspars, feldspathoids) are dominant over the femic (normative ferromagnesian) minerals within the limits $\frac{sal}{fem} \langle \frac{r}{4} \rangle \frac{s}{2}$.

This is class II, dosalane. dOSE, n.—Fractional doses, doses of medicine which are below the normal amount but are given at shorter in-

tervals than are customary dose, v. t. 4. To divi To divide into proper quantities for a dose; calculate the amount of (a drug) that should be prescribed for a dose.

In other words, we cannot exactly dose the application. Great as is the difficulty in dosing an X-ray exposure, it is vastly greater when we undertake to utilize the radioactive substances that at present are furnished commercially.

Med. Record, March 7, 1908, p. 366.

dosimetric (dō-si-met'rik), a. [dosimetr-y + -ic.] Of or pertaining to dosimetry. dosimetrician (dō'si-mē-trish'an), n. [dosi-

notinetrician (do'si-me-trish an), n. [dosi-metric + -ian.] One who practises dosimetry. For, as we have seen, the vulgar, called upon to choose between the mattoid and the man of genius, never hesi-tate to sacrifice the latter. Even at the present day, many practitioners who take the dosimetricians seriously, laugh at homeopathy. C. Lombroso (trans.). The Man of Genius, p. 221.

doslmetrist (do-sim'e-trist), n. [dosimetr-y

dosimetrist (do-sim e-trist), n. [dosimetr-y + -ist.] Same as *dosimetrician.
dosimetry (dō-sim'e-tri), n. [Gr. δόσι, dose, + -μετρία, ⟨μέτρου, a measure.] 1. The accurate measurement of the doses of medicines.

—2. A system of therapeutics in which treatment is directed chiefly toward the symptoms and consists in the administration of all allocides. and consists in the administration of alkaloids in the form of granules at definite intervals, each granule containing a single dose of the remedy of proper amount for administration at the prescribed interval.

dosodic (dó-sö'dik), a. [do (minantly) + sodic.]
In petrog., in the quantitative system of classification (see *rock1), dominantly sodic: said of divisions of rock magmas in which the ratio of the soda to the potash is greater than 5 to 3 and less than 7 to 1.

dosootee (dō-sō'tō), n. [Also dosooty; < Hind. dosūti, dusūti (also dosūtā), < do, du, two, + sūt, a thread (see sutra, sew¹).] In India, a kind of cheap cotton cloth woven with threads doubled. Yule.

dossier (dos-iā'), n. [F., < dos, back.] A bundle of writings or documents relating to some

one matter or subject, inclosed in a wrapper and briefed on the back; the 'papers in the and briefed on the back; the 'papers in the case.'—The secret dossier, certain documents which in the trial of Captain Alfred Dreytus, for treason, in France in 1894, were illegally and secretly presented as evidence against him. These documents were said to have been shown to the jury at a time when the court was not in session, and largely upon the strength of this evidence Dreyfus was convicted.

dot'1, n. 1. (f). In bot.: (1) One of the small, usually circular and pellucid oil receptacles in certain leaves, a of Hypericum. (2) A pit in a cell-wall.

2. In projective geom., one of the system of a coplanar points which determine a polystigms. In each dat intersect (n-1) connectors going through

In each dot intersect (n-1) connectors, going through the remaining (n-1) dots. Merriman and Woodward, Higher Mathematics, p. 75.

Double dot, in musical notation, see dot1, 1(c) (1).—On the dot, at the precise moment; with punctuality and regularity: as, to begin work on the dot. dotted (dot'ed), p. a. 1. Marked with a dot or dots; spotted: as, a dotted pattern, the dotted i.—2. Consisting of dots, as, a dotted line. Detted here. See there!

dotilic (dō - til 'ik), a. [do(minantly) + til (< t(itanite) + il(mentle)) + -ic.] In petrog., dominantly tilic. Used in the quantitative classification (see *rock1), to describe divisions of igneous rocks in which tilic minerals (normative titanite, ilmenite) are dominant over hemic minerals (normative magnetite, hematite), within the limits $\frac{H}{T} < \frac{1}{2} > \frac{1}{2}$.

dotriacontane (dot-ri-a-kon'tān), n. Same as

*dotricontane (dot-ri-kon'tan), n. A colorless crystalline hydrocarbon, C₃₂H₆₆, of the methane series, prepared by the action of sodium amalgam on cetyliodide and contained in petroleum. It melts at 70.5° C., and boils at 310° C. under 15 millimeters pressure: also called detriacontane and dicetyl.

dotter, n. 2. In naval use, an apparatus used to train gun-pointers to aim accurately at a target. The apparatus carries a miniature target close to the muzzle of the gun. The target is given a vertical oscillating motion to imitate the effect of the rolling of a vessel at sea; the pointer follows the motion of the target with his gun by means of the gun-sight, and when he judges he is aiming at the center of the target he presses a firing-key as he would in actually firing the gun. The electric apparatus worked by the firing-key makes a dot at the point on the target a which he was actually aiming when he pressed the firing-key.

A detting when he pressed the firing-key.

dotting-wheel (dot'ing-hwel), n. A dotting-

pen or tracing-wheel (which see). dottyl (dot'i), a. $[dot^1 + -y^1]$ Having dots; covered or characterized by dots: as, a low,

dotty underwood. R. L. Stevenson.
dotty² (dot'i), a. [Dial. var. of doty.] 1. Of
unsteady gait; feeble and tottering, as from
stiffness or lameness: as, to be a little dotty
on one's feet.—2. Feeble-minded; silly. [Colloq.]

dot-work (dot'werk), n. Dot-painting. See pointillim

douanier (dwān-yā'), n. [F., < douane, cus tom-house: see douane.] A custom-house A custom-house officer.

double. I. a.—Double algebra. (c) An algebra of coplanar vectors. See the extract.

All the symbols which in single algebra denote numbers or magnitudes, in double algebra denote lines, and not merely the lengths of lines, but their directions.

A. De Morgan, Trig. and Double Algebra, p. 117.

Double ax, a pictographic and ative type common in the storic remains of the Le-It is found in Hittite hieprehistoric vant. It is vant. It is found in Hittite hieroglyphics, on Cypriote cylinders, and on Mycensean objects, on which it has some connection with Zeus Labrandeus. It is the most important of the Cretan pictographic symbols. Also called labrys.

The most constantly recurring of these, indeed, is the labrys or double az already referred to—the special symbol of the Cretan Zeus.

A. J. Evans, in Smithsonian Rep., 1901, p. 436.

Double Ax.

Double chant, concerto, consciousness, counterpoint, court. See chant (c), concerto (c), *consciousness, counterpoint, 3 (c), *court.—Double flute, etc.—Double fugue. See *fugue.—Double green. Same as methyl green (which see, under green!)—Double pedaro, See *cinch, 4.—Double points of a homographic transformation. See *point!.—Double pedaro, See *cinch, 4.—Double shake or trill. See shake, 5.—Double sharp, slit, suspension. See sharp, *skit!, suspension, 5.

quartet. See quartet.—Double shake or trill. See shake, 5.—Double sharp, slit, suspension. See sharp, stitl, suspension, 5.

II. n. 14. In printing: (b) Same as mackle.

—16. In lawn-tennis, two successive faults in serving.—17. In base-ball, a play in which a fielder, either alone or with assistance, puts out two runners before the ball is returned to the pitcher for delivery.—18. In astron., two stars which seem one to the unaided eye, but which are seen separated through the telescope. Optical doubles, probably very rare, are composed of two stars nearly in line with the observer, one them far beyond the other, each having its own proper motion. Physical doubles are actually near together, and revolve around their common center of gravity; also, and more usually, called binaries. A spectroscopic double or binary is one in which the stars are too close to be separated by the telescope, but of which the duplicity is shown by the periodic doubling or shifting of lines in the spectrum. Visual doubles are pairs of stars near each other, but not so near as to require a telescope to separate them; a Capricorni and 4 Tauri are typical examples.

19. pl. Sheet-iron plates, from 0.020 to 0.035 of an inch thick, which are ready for tinning. The term is also applied to plates which have already received an extra thick coating of tin and which have, besides, been hammered to make the tin adhere more firmly to the iron.—Double and twist, two strands of yarn twisted together; a two-ply thread.

double, v. I. trans. 8. In the manufacture of spirituous liquors, to distil a second time (the which are seen separated through the tele-

spirituous liquors, to distil a second time (the

creased alcoholic strength. Sadtler, Handbook of Indust. Chem., p. 225.—9. In ship-building, to cover (a surface, particularly part oussuing, to cover (a surface, particularly part of a deck or of the exterior of a vessel), with two thicknesses of plating or planking.—To double pawns, in chess, to play so that two pawns of the same color are placed on the same file or row.—To double rooks, in chess, to place both rooks on the same file or row.

IT

II. intrans. 6. Milit., to move with the double-quick step.

ble-quick step.

The Garrison Artillery lined the parapet . . . and cheered themselves hoarse as the British Infantry doubled along the road to the main Gate of the City.

R. Kipling, Soldiers Three, p. 399.

7. In printing: (a) In type-setting, to repeat words or lines through negligence. (b) In presswork, to make a second impression over the first.—8. In billiards, to cause an objectthe first.—8. In billiards, to cause an object-ball, almost invariably the first, to go to and ball, almost invariably the first, to go to and return from a cushion, either for pocketing or for caroming.—9. In base-ball, to put out two men on one play. See *double, n., 17.

double-bowed (dub'l-boud), a. Naut., said of a vessel in which both ends are alike, so that it is able to move in one direction or its opposite with care to return the property of the call the without turning and the call the statement of the call the call the statement of the call the call

site with equal facility without turning, as a ferryboat. White, Manual of Naval Arch., p.

double-claw (dub'l-kla), n. The unicorn-plant. See Martynia.

double-cropping (dub'l-krop'ing), n. The raising of two or more crops on the same land in one season. This is accomplished by means of companion crops and succession crops (see

doubled (dub'ld), p. a. 1. Made double; duplicated.—2. In music, reinforced by its ocparameter.— In music, reinforced by its octave: said of a tone in a melody or a chord.—
Doubled pawn, rook. See to double pawns, to double rooks, under adouble.

roots, under *double.

double-double (dub'l-dub'l), n. A multiple star composed of two pairs. Epsilon Lyrse is perhaps the best example. Each pair is itself binary, and the two pairs (probably) revolve around their common center of gravity in a much longer period.

double-ender, n. S. A locomotive having either a truck or a pilot at each end: intended

to haul trains in either direction without being

turned.—4. A double-pointed file.
double entente (dö'bl on-tont'). [F., 'double meaning.'] See double entendre.

double ganger (dub'l-gang'er), n. [G. dop-pelgänger.] The apparition of a living person; a double; a wraith.

Either you are Hereward, or you are his double-ganger.

Kingsley, Hereward, xix.

double-geared (dub'l-gerd), p. a. Having two changes of the speed by means of gears, as in the back-gears of a lathe. This term is applicable only to the number of gear reductions, and not to the amount of change in the acting force which depends on the ratios of the dismeters of the gears.

double-header, n. 2. In lumbering, a place from which it is possible to haul a full load to the heading and where partial lead care to the control of the leading and where partial lead care to the leading and these partial leads are to be seen to the leading and the seen the seen the leading and the seen the leading and the seen the leadi

the landing, and where partial loads are topped out or finished to the full hauling capacity of

double-jacketed (dub'l-jak'et-ed), p. a. Fitted with two walls. The cavity between the walls may be filled with steam while the outer layer is covered with a non-conducting covering, or the double jacket may be of two layers of poor conductors of heat.

They are fitted with a strong bottom hoop and bands round the sides, and can be double-jacketed for steamheating if required.

Encyc. Brit., XXVII. 368.

double-leaf (dub'l-lef), n. Any plant of the genus Ophrys. Also called twayblade (which

double-lop (dub'l-lop), a. Having the ears bent directly downward: said of a rabbit.

The ears . . . hang down by the side of the head like a ouble-lop rabbit. Encyc. Brit., X. 709.

double-opposed (dub'l-o-pōzd'), a. In mach., composed of two parts which are opposed to each other either in position or in action. A double-opposed engine is one having two cylinders which are placed on opposite sides of the shaft and hence tend to balance each other when running.

double-ply (dub'1-pli), a. Made up of two layers or thicknesses: said of manufactured articles, such as hose or rubber belting, in which layers of canvas alternate with layers rubber fabric. In double-ply hose there are two layers of canvas and three layers of rubber. double-ported (dub'l-por'ted), a. Having two ports which open simultaneously so as to give a large opening with small motion: said of engine-valves.

low wines or weak spirit obtained in the first double-riveted (dub'l-riv'et-ed), a. Having distillation), thus producing a liquid of in- two rows of rivets in each joint. In lap-riveting

this necessitates only two rows of rivets, while for butt-joints two rows are needed on each side of the butt, makjoints two rows are no ing four rows in all.

double-spar (dub'l-spar), n. Same as doubly

refracting spar. See calcite.

double-standard (dub'l-stan'därd), a. That
may be registered in two classes: applied to
cattle. Thus the double-standard polled Durhams may be registered as shorthorns or as polled Durhams.

double-suspension (dub'l-sus-pen'shon), a. Having a perch gear and the body suspended upon four elliptic and four C-springs, leather braces connecting the body to the C-springs: said of a coach.

said of a coach.

doublet, n. 1. (e) In billiards, the doubling of a ballsee *double, v. II. 8.

5. In organ-building, a two-feet stop, or fifteenth. See *top¹, 6.— Doublet game. See *game¹.
—Fhotographic doublet, a combination of four simple
lenses arranged in pairs separated from each other by a
distance equal to about three times the diameter of the
lenses. This combination is used in astronomical photography, and possesses the advantage over other types of
lenses used in this work, and also over reflecting mirrors,
that it covers a comparatively large field.

doublathous (dub'l-thous), v. To strike or

double-thong (dub'l-thông), v. t. To strike or lash with the doubled thong of a whip: as, to double-thong the off-wheeler, in driving.

double-threaded (dub'l-thred'ed), a. 1. Having or sewing with two threads, as a sewing-machine having both needle and shuttle.—2. Having two screw-threads which start at points 180 degrees apart and have each twice the pitch which appears from measuring from the tip of one thread to the tip of the next parallel to the axis. Double-threaded screws give very rapid motion to the nut.

doubleton (dub'1-ton), n. [double + -ton, as in simpleton.] In whist and bridge, a two-card suit.

double-tongue, n. 2. A kind of dwarf butcher's-broom, Ruscus Hypoglossum, of southern Europe: so called from the appearance of the cladodes. See Ruscus.

iouble-tooth (dub'l-töth), n. bur-marigold or water-agrimony, Bidens cernua, translating the genus name.

double-touch, n. 2. In organ-building, an adjustment of the keyboard action by which different effects are produced when the keys are depressed partially or wholly, so as to permit of a decided differentiation between simultaneous tones.

doubling, n., 2. (d) In ship-building, a second thickness of plating or planking covering a surface, particularly part of a deck or of the exterior of a vessel.

7. (a) In textile-manuf., any process of combining two (or more) slivers and drawing them into a single sliver of smaller size than any of the separate ones, for the purpose of making more uniform roving. (b) In weaving, the process of winding two threads or rovings upon a spool or bobbin.—8. In biol., same as reduspool or bodoin.—3. In thoi, same as reau-plication: said of the chromosomes and centro-somes of the cell when they undergo fission.— 9. In bridge, the act of doubling the value of the trick points after the dealer's side has de-clared. See *bridge².—10. In the production of metallic antimony from its ore, the remetting of the singles, or lumps of crude metal first ob tained, and the mixing, in due proportion, of those containing surplus iron and those con-taining unseparated sulphur. The product of this second fusion is called bowl-metal because poured out into and solidified in a bowl of cast-iron.—11. In bookbinding, the thickening of the covers of a book by the addition of thick paper or thin boards.—Doubling in balk, in bil-liaries and some kinds of pool, a mode of pocketing by first driving the object-ball to a cushion, this ball and the cue-ball being within the string-line.

doubling-frame, n.— Filer doubling-frame, a mod-ified form of a throatle spinning-machine for the twisting together of two or more threads.

doublure (dub-lür'), n. [F. doublure, a lining, \(\langle \) doubler, double, v.] 1. The ornamental lining on the inner covers of a sumptuous book. The simpler styles are of silk, velvet, or bro-cade. Highly decorated books have linings of thin leather, with borders or centerpieces hand-tooled in gold. See cut on page 392.

One of Edward's books, however, has actually the first instance in an English book of a decorated "doubture," the name by which we understand the inner side of the boards of a book.

C. Davenport, in Portfolio, N. 8., XXX. 28.

2. In paleon., the reflexed inferior margin of the carapace in the Trilobita, specially noticeable on the cephalon and pygidium.





Doublure of Prayer-book of Edward VI.

douche (dösh), v. t. [douche, n.] To apply a

douche (dosn), v. t. [source, douche to.]

douche to.

doucin (dö-san'), n. [F.] A variety of dwarf apple-tree on which other kinds are grafted or budded when it is desired to secure a tree of small stature. Dwarf apple-trees are usually regarded as of two general types or tribes, the paradise and the doucin. The paradise is the smaller of the two; the douched under the douched as the coast of Barbados.

Dove s law of two irons, one with a recess, cut to a taper: used to hold carriage-doors in position.

dovetail-fish (duv'tāl-fish), n. A fish, Abudefdut turus, of the family Pomacentridæ: found the coast of Barbados. or budded when it is desired to secure a tree of small stature. Dwarf apple-trees are usually regarded as of two general types or tribes, the paradise and the doucin. The paradise is the smaller of the two; the doucin is used when a tree of intermediate stature is desired. Dwarf apple stocks are propagated by layers; any variety of apple can be grafted on them.

dough, n. 4. Money; 'boodle.' [Slang, U. S.]—Sour dough, in Germany, the leaven used in making black rye bread. It consists of old dough which has been exposed to the air in a moist condition and has entered upon both alcoholic and lactic-acid fermentation.

dough-bag (dō'bag), n. A money-bag, especially one full of money for corrupt purposes; a corruption fund. [Slang, U. S.]

dough-belly (dō'bel'i), n. The steel-back chub, Campostoma anomalum. (Indiana). See cut, under Campostoma. [Local, U. S.]

dough-boy, n. 2. An infantry soldier. [Colloq., U. S.]

dough-day (dō'dā), n. A day shortly before an election, on which the 'dough,' or money, for use (chiefly in purchasing votes) in the election is distributed to the 'workers' of a party. [Slang, U. S.]
dough-divider (dō'di-vī'der), n. A machine for cutting dough; a doughing-machine (which see). There are two sizes made: one for cutting the dough into thirty pleces, used for making rolls, biscuits, etc.; the other for cutting it into fifteen pieces, used for bread-loaves.

Annch-head (dō'hed) n. A blockhood; a ctu.

used for bread-loaves.

dough-head (dō'hed), n. A blockhead; a stupid fellow; a fool. [Slang, U. S.]

dough-mixer (dō'mik'ser), n. A machine for mixing dough.—Screw dough-mixer, a dough-mixer which is operated by means of an iron or steel screw on a horizontal shaft. The dough is mixed and pressed through a circular iron box on to a platform.

dough-molder (dō'mōl'der), n. A machine for rolling and molding dough to prepage; it to

for rolling and molding dough to prepare it to be placed in pans.

dough-trough (dô'trôf), n. A long box made of wood or iron, about 2 feet wide, 14 deep, and from 8 to 12 long, in which dough is mixed by hand and left to prove or rise. It is also used to receive dough from the doughing machine. douglasite (dug'las-it), n. [Douglashall, near Stassfurt, + -itc2.] A hydrated chlorid of potassium and ferrous iron found at Stassfurt, Germany.

Douglas's fold, ligament, or line. See *fold1.
Douglas's fossa. Same as rectovaginal pouch
(which see, under pouch).
Doukhobor (dö'kō-bôr), n. See Dukhobortsi.
douma, n. See *duma.
douming (dou'ning), n. [*doup, v. (\(\lambda \) down n.)

douping (dou'ping), n. [*doup, v. (\langle doup, n.) -ing1.] In weaving gauze or leno fabrics, the

arrangement of the doup-threads in the heddles and reed for crossing or twisting about others. douping-warp (dou'ping-warp), n. Same as *whin-thread

doup-thread (doup'thred), n. In weaving, a thread having a doup or loop at the end. dourine (dö-ren'), n. [Origin not ascertained.] A disease of horses, affecting chiefly the genitals and hind legs, thought to be due to the presence of a protozoan parasite, Trypanosoma equiperdum.

dourra (dö'rä), n. See durra.
dout, doutful. Simplified spellings of doubt,
doubtful.

douzain (dö-zan'), n. [F.: see dozen.] stanza of twelve lines. — 2. A French pl stanza of twelve lines.—2. A French plated or billon coin, the twelfth of the franc d'argent under the Valois kings and the twelfth of the silver écu d'argent under Louis XIII. and his down3, n.—Vegetable down. Same as *b

Dove of Noah, Columba Noachi, a small modern constellation south of Lepus and close to the feet of Canis Major.—Scaled dove, scaly dove. See scale-dove.

dove-petrel (duv'pet"rel), n. Any of the small petrels of the genus *Prion*, especially the type species *P. turtur*, common in southern seas. The name was suggested by the size and color of the bird.

dove-pox (duv'poks), n. An infectious disease of doves identical with pigeon-pox. See piaeon-pox.

dover² (dō'ver), n. A clasp-knife of a kind originally made by a cutler named Dover.

[Australia.]

on the coast of Barbados.

dovetailing-machine (duv'tāl-ing-ma-shēn'),

n. A machine for making the recesses which
are to receive a dovetail-shaped tenon. The
stock is cut away by a rapidly revolving cutter-head of
the desired section, fed in against the end of the piece to
be jointed and regulated for depth and for distance apart
by cams and feed-devices. The tenons can be similarly
cut, and will be standard and duplicates of each other.

down-tick (duv'tik) n A generovolitan tick

dove-tick (duv'tik), n. A cosmopolitan tick, Argas reflexus, which inhabits dove-cotes and sucks blood for nourishment, but which is capable of living for at least two years without food. Also called pigeon-tick.

dove-weed (duv'wēd), n. The spotted spurge or milk-purslane, Euphorbia maculata: so named because its seed-capsules are a favorite

food of the ground-dove. Also called spotted eyebright. [West Indies.]
dove-whistle (duv'hwis'l), n. A light whistle, single or compound, attached to pigeons and sounded by their flight against the wind. It is used in China and other countries of eastern single or compound, attached to pigeons and sounded by their flight against the wind. It is used in China and other countries of eastern Asia. Also pigeon-whistle.

dow⁶ (dou), n. [Hind. dão, Burmese dāh.] A hewing-knife which serves on occasion as a sword. [Anglo-Indian.]

An abbreviation of dowager.

dowel-plate (dou'el-plāt), n. An iron plate office.

punctured with round holes, used for making D. P. S. An abbreviation of Doctor of Physical dowels by driving the wood through the holes. Science dowel-strip (dou'el-strip), n. 1. A piece of dpt. stock from which round dowels are made.—2. drai A strip intended to receive dowel-pins and form a joint.

form a joint.

Dower by custom, in common law, the dower to which a widow became entitled by reason of some local or particular custom.— Dower de la plus belle, in common law, the process by which a widow was required to re-indow herself out of the lands held by her as guardian in socage, in order to release from dower the lands of her husband held in chivalry. This could be required by the guardian in chivalry when sued by the widow for dower. It was abolished with military tenures, of which it was an incident.—Dower ex assensu patris, in common law, the same as doncer ad ostium ecclesiæ (which see, under dower?, 2), except that the property endowed belonged to the husband's father and was given by his consent.

dowlas, n. 2. In modern use, a coarse cotton fabric made to imitate the linen cloth of the

fabric made to imitate the linen cloth of the same name.

down², adv.—One down, in golf, one hole down, or one hole by which the player is behind his opponent. down². I. a. 4. In stud poker, said of the first card, which is dealt face down.

II. n. 2. In dominoes, the first stone laid on the table.—3. A scrimmage in foot-ball. When a player is held so that he can no longer advance the ball, he cries 'down,' and the ball is then placed on that spot for a scrimmage.—4. A grudge or prejudice

(against); a hostile attitude: usually with on or upon: as, to have a private down on one; the diggers had a down on made dishes. [Australia.]

successors.

douzaine (dö-zān'), n. [F.: see dozen.] An administrative council of twelve elected men. [Channel Islands.]

douzainier, douzenier (dö-zān-yēr'), n. [F., douzainier, douzenier of a body of an administrative council of twelve. [Channel Islands.]

cotton.

down-bow (doun'bō), n. In violin-playing, a stroke of the bow downward, beginning with the nut: opposed to *up-bow.—Down-bow mark, in violin music, a sign to use a down-bow, usually—or—downcast, n. 3. In ship-building, a duct or trunk with a cowl or hood at its upper end, arranged to drive air down into the interior of

downcomer (doun'kum'er), n. 1 or passage for leading solids or fluids downward.—2. A downtake.—3. The descending element of a sectional boiler, through which the cooler or heavier water descends in the process of circulation.—4. In a blast-furnace for smelting iron from the ore, a large pipe which takes combustible are free; that it is for smelting fron from the ore, a large pipe which takes combustible gas from the top of the furnace-shaft and brings it down to boil-ers, stoves, engines, etc., in which it is burned as a source of heat.

as a source of heat.

down-draft, n. II. a. Pertaining to a current of air or gas which flows downward: used in connection with furnaces. In down-draft furnaces the current of air is admitted on top of the grate and passes down through it.

down-faulted (doun'fâl'ted), a. Depressed by faulting to a relatively lower level.

It was shown that the coals occur in a down-faulted block of coal measure beds surrounded by Pocous strata.

Science, March 16, 1901, p. 426.

down-grade (doun'grād), n. and a. I. n. A downward sloping portion of a road or railway; hence, figuratively, a downward moral

II. a. Sloping downward; hence, relating to a downward moral course.

downmost (doun'most), adv. and a. Farthest down: opposed to upmost or uppermost.

They affected to champion the cause of the "downmost an." New York Independent, June 14, 1900, p. 1440.

downright, a. II. n. One of the lower qualities or sorts of a fleece of wool. Hannan, Textile Fibres of Commerce, p. 191.
downtake, n. 2. A passage or tube leading downward through which a material, as coal, ore, etc., is poured into hoppers or carts. down-thrust (doun'thrust), a. Pertaining to or resulting from a downward movement, as in faults.—Down-thrust fault a normal or gravity.

The next day wipe off grain with fiannel, and stock is finished, and may be sorted and dozened to ship away.

C. T. Davis, Manuf. of Leather, p. 376.

dow. An abbreviation of dowager.

dowdyism (dou'di-izm), n. The quality of being dowdy in dress or appearance; lack of smartness or 'style' in dress.

dowel-mill (dou'el-mil), n. A hollow cutter, p. In elect., an abbreviation of Doctor of Pharmacy.

d. p. In elect., an abbreviation of Diploma in Public Health.

D. P. H. An abbreviation of Diploma in Public Health.

An abbreviation (b) of department.

drab², n. 3. An English collectors' name for a number of noctuid moths of a drab color: as, the clouded drab, Tæniocampa instabilis; the northern drab, T. opima; the lead-colored

drab, T. populeti.
drac (drak), n. [Pr.; cf. drake2, dragon.] In southern France, formerly, an elf of popular

drach. A contraction of drachma, a drachm. Draconism (drā'kō-nizm), n. [Gr. Δράκων, L. Draco(n-), Draco, +-ism.] Draconic severity; harshness: as, the Draconism of the slave

dracuncular (drā-kun'kū-lär), a. Relating to or caused by the guinea-worm, Dracunculus medinensis.

medinensis.
draf, n. A simplified spelling of draff.
draft1, n. 12. Draft aft is that measured at the stern;
draft forward, that measured at the bow; mean draft,
the average between that at the bow and the stern, or
that measured at the middle of the length; draft extreme,
that measured to the lowest projecting portion of the
vessel, as the rudder or the propellers when they are
below the lowest point of the keel; light draft, that at
light displacement; load draft, that at load displacement.
See *displacement.
34. In textile-manuf., the amount of attenuation of a lad, sliver, or roving effected by

tion of a lap, sliver, or roving effected by

speeds.—35. A body or bunch of eattle which have been separated from the rest of the herd. See draft1, 10. [Australia.]—Direct draft, an arrangement of the flues for the products of combustion such that these products move always in the same direction toward the chimney.—Fan draft, a system of supplying the air for the combustion of coal in boller-furnaces by means of mechanically driven fans or blowers.

Fan draught is also of great value under under the same direction toward the chimney.—Fan draft a system of supplying the air for the combustion of coal in boller-furnaces by means of mechanically driven fans or blowers.

Fan draught is also of great value under under under the descends from the bottom of a first tube which descends from the bottom of a first tube which descends from the bottom of a first tube which descends from the bottom of a first tube which descends from the bottom of a first tube which descends from the bottom of a first tube which descends from the bottom of a first tube which descends from the bottom of a first tube which descends from the bottom of a first tube which descends from the bottom of a first tube which descends from the bottom of a first tube which descends from the bottom of a first tube which descends from the bottom of a first tube which descends from the bottom of a first tube which descends from the bottom of a first tube which descends from the bottom of a first tube which descends from the bottom of a first tube which descends from the bottom of a first tube which descends from the firs

Fan draught is also of great value under unfavourable conditions, such as hot weather, calms, or following winds, giving a command of steam not possible with funnel draught and ordinary ventilators.

White, Manual of Naval Architecture, p. 568.

White, Manual of Naval Architecture, p. 563.

Forced draft, an accelerated draft produced by supplying air to the furnace at a greater pressure than that of the atmosphere.—Induced draft, an accelerated draft caused by drawing the gases away from the furnace by a centrifugal fan or other device, so that the pressure within the furnace and flues is less than that of the atmosphere.—Mechanical draft, draft for a furnace which is produced by some mechanical contrivance such as a blower, steam-jet, etc., as distinguished from a natural draft produced by a chimney.—Skip-ahaft draft, a plan for a plain weave (as for calicoes), with four or more shafts or harnesses in a loom, by skipping from the first shaft to the third in drawing in the warp-threads through the heddles, then from the second to the fourth, and so on.—Straight-over draft, the process of drawing in warp-threads for a loom through the harnesses in their regular order.

(a lap, sliver, or roving) by drawing it be-

(a lap, sliver, or roving) by drawing it be-tween rollers which run at different speeds.—

7. To separate (and sort) from the herd: as, to draft cattle. See def. 3. [Australia.] draft-cord (draft'kôrd). n. A cord or small rope attached to the draft-scroll on a spinningmule.

draft engine (draft'en'jin), n. 1. An engine used to cause a current or draft of air or other used to cause a current or draft of air or other gas through flues.—2. An engine for hauling. This is an improper use: such an engine is a traction-engine if mobile and a windlass or derrick if stationary.

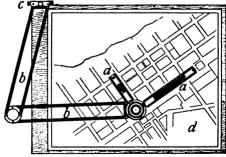
drafter (draf 'ter), n. 1. One who drafts; one

drafter (draf'ter), n. 1. One who drafts; one who drafts a document: as, the drafters of the Constitution of the United States.—2. One employed in a drafting-yard to sort out sheep. [Australia.]—3. A draft-horse. draft-furnace (draft'fer'nas), n. A furnace used in a primitive method of ventilating mines or shafts. It was placed at the base of the shaft, so that a column of air heated by it should rise and carry out with it the air or gases to be removed. In modern plants this ventilating is effected by fans. draft-gage (draft'gāj), n. A gage for measuring the force of a draft by ascertaining the difference in pressure between a point in the course of the draft and the pressure of the atmosphere.

the atmosphere.

draft-gear (draft'ger), n. In car-building, the entire system of couplers, draw-bars, springs, entire system of couplers, Graw-Dars, springs, etc., used to connect one car with another or to the locomotive.—Continuous draft-gear, a draft-gear extending by means of rods, called draft-rods, from one draw-bar of a car to the other, and designed to distribute the pulling strains when the car is being hauled.—Friction draft-gear, a form of draw-head for railway-cars in which the action of the usual spring attachment is retarded by introducing friction surfaces which must move upon each other when shocks of traction or retardation occur.

drafting-machine (draf'ting-ma-shēn'), n. An appliance for the rapid and accurate drawing



a, a, square; b, b, pivoted arms; c, fixed point of support on board; d, man.

of plans, diagrams, and mechanical drawings. of plans, diagrams, and mechanical drawings. It consists of a graduated square having extension arms which in a normal position are at a right angle and can be adjusted to other angles when desired. It is provided with two parallel arms hinged at the outer end to two more arms, which are, in turn, hinged to a fixed point on the edge of the drawing-board. The combined arms permit of a free movement of the square over the board, and yet keep it at all times at the same relative angle.

drafting-room (drafting-röm), n. Same as

drafting-yard (draf'ting-yard), n. A stock-

which descends from the bottom of a turbinecasing into the tail-race, with its lower end
below the surface of the water in the latter.
The atmospheric pressure is balanced in part by the
height of the water column, so that the motor can be
placed above the level of the tail-race and yet suffer no
loss of effective working head. This lessens the weight
of the transmission shaft, and the turbine need not be
placed so low as to be inaccessible. Applicable principally to downward-flow wheels.

draft-wheel (draft'hwēl), n. On a machine
for textile-fibers, a gear for regulating the
speed of the draft-rollers for attenuating the
sliver, roying, lap, etc.

sliver, roving, lap, etc.

speed of the draft-rollers for attenuating the sliver, roving, lap, etc.

drag, n.—Gollapsible drag (naut.), a drag which folds up into a comparatively small compass, such as the cornucopia and umbrella drags.—Cornucopia drag (naut.), a heavy iron ring, varying in size according to the tonnage of a vessel, to which is laced a funnel-shaped canvas bound on the seams with rope. At the pointed end of the canvas a small iron eye is secured into which the tripping-line is bent; and a four-part bridle is formed at the mouth end of the bag by continuing the rope a couple of fathoms and ending it in an iron ring to which the hawser is secured with two half-hitches and a stopped end. The weight of the iron ring is generally sufficient to keep the mouth of the bag down in the water. After the hawser has been led through the hawse-pipe or over the bow. A long scope of hawser is given to the drag, and the tripping-line, which is employed for reversing the drag and getting it on board, is kept well slack.—Folding drag (naut.), a form of drag popular among English seamen, consisting of several spars lashed together at or pinned through the center. When spread out they resemble the sticks of a kite. Around the outer ends of the spars, and encircling them, a chain is passed, and to this chain is laced a baggy canvas shaped to the frame. A bridle leads from the four spars to which the towing hawser is made fast, and a tripping-line is bent to the end of one of the spars to capsize the kite and haul it on board horizontally.—Portable drag (naut.), a drag, easy of transportation, such as the cornucopla drag.—Propeller drag (naut.), the drag which the propeller exercises in a heavy sea if the engines are stopped and the vessel is allowed to take up its own position.—Spar drag (naut.), a saingle spar with a bridle leading from its extremities, into the alings of which a hawser is made fast. To the center of this spar a kedge-anchor is secured to hold the spar down in the water and to give it additional resisting power, and to one o

drag-bench (drag'bench), n. Same as draw-

drag-buck (drag'buk), n. See *buck*, (c).
drag-cart (drag'kärt), n. Same as *bummer, 3.
drag-lines (drag'linz), n. pl. In geol., a set of
cross-striæ which are produced on the lee sides
of older stries. T. C. Chamberlin, in U. S. Geol. Surv., 1885-86.

dragma (drag'mä), n.; pl. dragmata (-ma-tä) [NL., ζ Gr. δράγμα, a handful, a sheaf.] Ir sponge-spicules, one of the microscleres, of which there are several in a cell or sclero-

drag-mill (drag'mil), n. A mill for grinding ore by dragging massive rollers over the mass to be pulverized; an arrastre.

drag-nut (drag'nut), n. A nut on a bar, bolt, or rod for drawing two parts of a mechanism toward each other, or the reverse.

dragomanate (drag'ō-man-āt), n. [dragoman + -ate³.] The office of a dragoman; the interpreter's department: as, the consular dragomanate.

dragomanic (drag'ō-man-ik), a. -ic.] Of or pertaining to a dragoman: as,

dragomanic expenses. Iragon, n. 10. The larva of a European notodragon, n. 10. The larva of a European noto-dontid moth, Hybocampa millhauseri, having remarkably angular outlines and conspicuous corners and humps, so that it resembles an oak-leaf curled and eaten by a tortricid larva.

—11. The hellgrammite fly, Corydalus cornutus. [Local, eastern U. S.]—Blue dragon. Same as Broseley *dragon.—Broseley dragon, a



Broseley Dragon.

design used extensively by Thomas Turner of Caughley, near Broseley, England, in the decoration of tableware, in the latter part of the eighteenth century. This pattern was almost as celebrated as his willow pattern. Also called blue dragon.—Dragon green. Same as malachite-green.—Flying dragon, a meteor with a luminous train.—Order of the Double Dragon. See *order.—Waterdragon.

dragonade, dragonnade (drag-o-nād'), v. t.; pret. and pp. dragonaded or dragonnaded, ppr. dragonading or dragonnading. [dragonade, n.] To persecute by methods similar to those of the dragonades.

dragonet, n.— sword-dragonet, a common name of the hah Callionymus lyra.
dragon's-blood, n. 2. In ceram., a red color dragon's-blood, n. 2. In ceram., a red color resembling arterial blood, with iridescence, in places, due to the presence of copper; a variety of sang-de-bœuf.

dragon's-claw (drag'onz-kla), n. The coral-root, Corallorhiza odontorhiza or C. multiflora: so called from the claw-like form of the root.

dragon's-mouth (drag'onz-mouth), n. 1. The snapdragon.—2. A terrestrial orchid, Arethusa bulbosa, of eastern North America, with

dragon's-skin (drag'onz-skin), n. A name given by coal-miners to decorticated trunks and slabs of Sigillaria and Lepidodendron, from the resemblance of the scars to the scales of reptiles.

dragon's-tongue (drag'onz-tung), n. An occasional name of the spotted wintergreen, Chimaphila maculata.

maphila maculata.

drag-road (drag'rod), n. Same as *dray-road.
drag-sled (drag'sled), n. Same as *dray1, 3.
dragsman, n. 3. One engaged in dragging a
a river, lake, pond, harbor, or the like, in
search of something.
drain, n. 2. (d) In ship-building, a large pipe
which runs through or above the double bottom
of a war-ship and is connected with the principal

of a war-ship and is connected with the principal pumps to remove water from the various compartments. The main drain is from 12 to 15 inches in diameter, has openings into the large compartments controlled by valves, and is intended to pump out the water in case of damage by grounding, collision, etc. The secondary or auxiliary drain is also connected with all the large compartments and is used for all ordinary pumplng.—Block drain. Same asplug **drain.—Bush, brush-wood, or wood drain, an old style of drain consisting of poles or fagots placed at the bottom of a trench and covered with soil. The water passes among the material while it lasts, then through the cavity left by its decay. Of the same type are spray drains and straw drains, in which branches and straw are used.—Cobble or cobble-stone drain. Same as rubble drain (which see, under drain). W. I. Chamberlain, Tile Drainage, p. 29.—Mole or mole-plow drain, a drain made by a mole-plow, consisting of a cylindrical channel communicating with the surface by a slit which is closed by a furrow-slice.—Plug drain, a drain formed by placing in the bottom of a trench a row of connected poles or fagots and puddling clay over these, then drawing the poles along and repeating the process. Also called block drain. (Great Britain.)—Shoep-drain, one of the small ditches often made in upland pastures in Great Britain.—Shoulder drain. See wedge-and-shoulder **adrain.**—Shoulder drain. See wedge-and-shoulder **adrain.—Shoulder drain.

Great Britain.]—Shoep-drain, one of the small ditches often made in upland pastures in Great Britain.—Shoulder drain. See wedge-and-shoulder **adrain.—Shoulder drain.

Great Britain.]—Shoep-drain, one of the small ditches often made in upland pastures in Great Britain.—Shoulder drain. See wedge-and-shoulder **adrain.—Shoulder drain.

Great Britain.]—Shoep-drain, one of the small ditches often made in upland pastures in Great Britain.—Shoulder drain. See wedge-and-shoulder **adrain.** Shoulders.

Great Britain.]—Shoulder **adrain.** Shoulders of a war-ship and is connected with the principal pumps to remove water from the various com-

or shoulders.

drainage, n.—Adjusted drainage, a drainage-system in which the streams and valleys have come, by spontaneous changes, to follow chiefly the belts of weak rock, while the ridges and divides follow the belts of resistant rock. Rivers and divides also are similarly adjusted.—Antecedent drainage. See *antecedent.—Arterial drainage, that part of drainage which is effected through large open channels which are either artificial water-courses or natural ones improved: opposed to minor **adrainage.—Autogenetic drainage. See *autogenetic.—Deep drainage. Same as thorough **drainage (a).—Drainage cycle, the initiation, development, and maturity of drainage of this beat mercent same interruption introduced by new conditions.

Dumb-well drainage. Same as sink-hole *drainage.

-Epigenetic drainage. Same as ink-hole *drainage.

-Epigenetic drainage. Same as ink-hole *drainage.

-Essex system of drainage, an earlier British method of drainage in which drains of the bush and straw type (which see, under *drain) were placed under each. or each second or third, water-furrow: hence, also called furrow drainage.—Inherited drainage, streams the courses of which have been determined by the slope of a once overlying series of strata now removed by erosion so as to disclose rock structures of another arrangement with respect to which the streams manifest no sympathy. Also called superposed or epigenetic drainage.—Minor drainage, deep or thorough drainage as opposed to arterial *drainage (which see).—Mole drainage, drainage with mole *drains (which see).—Parallel drainage. Same as

drainage

thorough *drainage (a).—Sink-hole drainage, the draining of land which is underlain by an impervious clay, by sinking a shaft through the latter into a bed of gravel beneath. This is Elkington's system of drainage. Also called dumb-well and swallow-hole drainage. [Great Britain.]
—Superposed drainage, Same as inherited *drainage.—Surface drainage, Same as inherited *drainage.—Burface drainage, draining by open furrows and ditches and natural watercourses.—Swallow-hole drainage. (a) In agr., drainage by means of thorough (see thorough, n. 1 (b)); specifically, underground drainage by any of the modern systems, including the Essex (see above). The latter was followed by a system of parallel draina, somewhat shallow and rather closely placed, devised by Smith of Deanstone; this was displaced (but only temporarily) by Parkes's system of deeper and more distant draina. Also called deep and parallel drainage. [Mainly Great Britain.] (b) In surg., drainage of a cavity by a tube which opens at the surface at two opposite points, allowing irrigation and drainage of the cavity without disturbance of the dressinga.—Tile drainage. See drain-tiles, under tile!.—Underground drainage, drainage by any system of closed drains; underdrainage. Underground drainage secures the benefits of drainage of surface drainage.

drainage-area (drā'nāj-lev'el), n. A nearly horizontal tunnel in a mine or other underground working to receive and gather the water from upper levels, so that it can be

ground working to receive and gather the water from upper levels, so that it can be pumped out.

pumped out.

drainage-way (drā'nāj-wā), n. A drain or drain-way; a drainage-channel.

drainer, n. 3. A vessel or bag in which moist substances are put to drain.

draining (drān-ing), n. The drawing or running off of water, especially the artificial removal of water from land by surface or underground channels. drainage Different methods moval of water from land by surface or under-ground channels; drainage. Different methods are known, as bush draining, furrow draining, mole draining, plug draining, thorough draining, tile drain-ing, etc. See *drain and *drainage. drain-tube (dran'tūb), n. A drip-pipe; a pipe for draining the water from the cylinder of an engine or a pump.

engine or a pump.

drake², n. 4. (b) Any one of several pseudoneuropterous insects used as bait by fishermen, especially certain May-flies. Ephemera danica and E. vulgata are known to English fishermen as the green drake and the gray drake.—5. A man-of-war of the Vikings. Marryat. N. E. D. dram² (dram), v. t.; pret. and pp. drammed, ppr. dramming. [dram, n.] To ascertain the fineness or size of by dram weight, as of a silk thread or year.

thread or yarn. dram.

An abbreviation of dramatic and dramatist. dramaticism (dra-mat'i-sizm), n.

+ -ism.] Dramatic character or quality. dramaturgic, a. 2. In anthrop., bringing about effects by means of a dramatic performance, as in cases where a myth is dramatized with a view of bringing about the events the origin of which is accounted for in the myth. F. H. Cushing, in 13th Rep. Bur. Ethnol., p.

drammage (dram'āj), n. [dram + -age.] The weight in drams of 1,000 yards of a raw-silk thread.

dranu (drä'nö), n. [Fijian name.] In the Fiji Islands, the giant taro, Alocasia Indica, the starchy root-stock of which is eaten by the natives in times of scarcity, though it is very acrid and often causes sickness. See *piga. drap d'été (drä'dā-tā'). [F., 'summer cloth.'] A fine woolen fabric for summer dresses.

Draper's actinometer, law. See *actinometer,

drapery (drā'per-i), v. t.; pret and pp. draperied, ppr. draperying. [drapery, n.] To drape; cover with draperies.

And then her dress—what beautiful simplicity

Draperied her form with curious felicity.

Byron, Don Juan, xvi. 102.

dratchel (drach'el), n. [Also dratchell, drotchel, drotchell; < dratch, dretch, linger, dawdle: see dretch².] A slovenly, untidy woman; a slattern. [Prov. Eng.] Johnson, Dict. of the Eng. Lang., 1755.

She'll be a poor dratchell by then she's thirty, a-mar-r'in' a' that'n, a fore her teeth's all come. George Eliot, Adam Bede I. ii. 20.

drave (drav), n. [Northern Eng. form of drove.] 1. A fishing trip in which the members of the crew go as sharesmen, each supplying a net and receiving a share of the profits.—2. A haul. N. E. D.

Dravidian architecture. See Indian architecture under Indian

tecture, under Indian.

dravite (drav'it), n. [F., Drave, G. Drau, a

river of Tyrol, Carinthia, etc., one of the tributaries of the Danube, + -4te².] A brown to black magnesian variety of tourmalin, found in the Draye district in Carinthia.

draw, v. I. trans. 31. In golf, to 'pull' (a ball); to cause (it) to curve to the left.—32.

To pull by means of a hook or similar device (threads of warp) through the heddle eyes of a loom.—33. In organ-playing, to pull out (a stop-knob) so as to cause a certain set of pipes to sound.—34. In cotton-spinning, to lengthen and attenuate (the sliver or roving) by drawing and attenuate (the sliver or roving) by drawing bottom. N. E. D. it between sets of rollers running at different drawn, p. a. 7. Abnormally tall and slender speeds.—35. To make (wire, piping, or tubbecause of too much crowding and too little speeds.—35. To make (wire, piping, or tubing) by drawing a piece of metal through successively diminishing holes in perforated

of cards so as to improve the value of the combination held.—14. In agri., to effect drainage; to draw off water.

A drain, in the language of farmers, is said to draw, which means that it renders the land dry on either side to a certain distance.

Low, Pract. Agr., p. 268.

15. In salt-boiling, to take out from the pans the salt as it crystallizes and set it aside to drain.—16. In cricket, to turn the ball past the drain.—16. In cricket, to turn the ball past the leg-wicket, by allowing it to glance off the bat and pass between the wicket and the body.

—To draw away, in cricket, to shrink away from a ball bowled at the legs: said of the bataman.—To draw level, in cricket, to equalize a score.—To draw up. (e) To assume an erect or stiff attitude: used reflexively: as, she drew (herself) up disdainfully. (f) To come up with; gain on an opponent, as in racing.

draw, n. 11. In poker, the second part of the deal; the filling of the hands after discarding.—12. A depression in the land through which

12. A depression in the land through which surface-water flows after rains; a basin-like valley convertible into an irrigation-reservoir

by damming its outlet.

One of the characteristic inhabitants of draws and low meadows . . . is Vernonia gipantea.

F. E. Clements, Phytogeog. Neb., p. 307.

13. In hort., the sprouts or shoots that spring from the tuber of the sweet-potato when it is placed in a seed-bed and by means of which the plant is propagated.—14. In organ-building, same as draw-stop. [Colloq.]—Continuous draw, in archery, a style of shooting in which the string is loosed and the arrow discharged immediately upon the completion of the draw, without the usual pause.—Sand draw, a channel filled with sand overlying a subterranean stream; also, the stream itself.

A sand draw is a subterranean stream. On the surface is seen only a broader or narrower band of pure sand, marking the channel.

P. A. Rydberg, Contrib. U. S. Nat. Herb., III. 470.

Spread draw, in billiards, a stroke by which the cue-ball rebounds from the object-ball at an angle more obtuse than that of the direct draw. It is not always possible to say where the spread ends and the draw begins. draw-bowl (dra'bol), n. One of two wooden rollers, of cylindrical form, running in contact with each other for the purpose of drawing with each other for the purpose of drawing cloth from a bleaching-keir.

draw-box (dra'boks), n. In cotton-manuf., a set of three or more pairs of rollers attached to combing- and certain other machines for

attenuating, or drawing out, the sliver.
draw-cock (dra'kok), n. A drain-cock; a petiraw-cock (dra'kok), n. A drain-cock; a peta European degree.

cock; a valve for draining water out of an en- Dr. Chem. An abbreviation of Doctor of Chem-

drawer, n. 6. One who draws waspender through heddles, preparatory to putting them

draw-game (dra'gam), n. A game of dominoes in which the player may draw from the bone-

yard when he cannot play.
draw-hole (dra'hōl), n. A hole through which

the spent ore is removed from a furnace. draw-hook (drâ/hùk), n. 1. The hook-end of a draw-bar in the construction used in autoa draw-bar in the construction used in automatic car-couplers. The hook is so made that when two cars are run together the hooks of the two draw-bars pass each other and are locked together by powerful springs. The hooking, in the best systems, takes place in a horizontal plane, although many efforts have been made to have the hooks operate in a vertical plane.

2. Same as *qooseneck, 4 (b).

drawing-hand (dra'ing-hand), n. In archery, the hand used to pull the string and hold the arrow against it in drawing a bow; ordinarily, the right hand: opposed to bow-hand, 1.

drawing-pliers (dra'ing-pli'ers), n. pl. A pair of gripping-pincers used, in the process of

drawing wire, to seize the stock and pull it through the hole in the draw-plate.

drawing-ring (dra'ing-ring), n. In archery, a ring worn on the thumb of the drawing-hand by tribes which use a thumb-loose to catch and

pull back the bowstring.

draw-iron (dra'i'ern), n. A swaged iron rod, fitted with a forged shackle near the branched end, used for attaching shafts to sleighs.

draw-kiln (dra'kil), n. A lime-kiln so constructed that the burned lime is drawn at the

sunlight and air: said of a plant, particularly a seedling. Badly drawn plants are of little successively diminishing holes in perforated plates.—To draw stumps, in cricket, to close a match finally, or for the day, by pulling the wickets from the ground. R. H. Lyttetion, Cricket and Golf, p. 114.—To draw to the ear, in archery, to draw a bow so fully that the drawing hand is as far back as the archer's ear: a fault which makes against accurate shooting.

II. intrans. 13. In poker, to discard part of the original hand and draw an equal number of cards so as to improve the value of the complete of

draw-plate, n. 3. A transverse plate connecting the side-frames in a locomotive and forming part of the framing to which the draw-bar is part of the framing to which the draw-har is attached.—Diamond draw-plates, tiny flat plates made of diamonds which are drilled with minute holes, sometimes as small as the thousandth of an inch, for the purpose of drawing platinum, gold, iron, or copper wire. draw-rod, n. 2. A straight rod with a thread and nut at one end and an eye and thread and nut at the other, used to secure the draw-bar of a claich

of a sleigh. draw-shave (dra'shav), n. A surgical instrument resembling a drawing-knife, with a single long handle, used to remove thin slices of tissue or parity of a parity

rior of a cavity.

draw-sheet (dra'shet), n. In hospitals, a wide sheet so disposed on the bed that it can easily be drawn from under a patient who is ly-

ing upon it.

draw-shot (dra'shot), n. In billiards, a shot in which the cue-ball is struck underneath its comes back toward the player; a draw. Drawshots are tive or dead according as the cue-ball, for the sake of position for the next shot, is returned fast or slow. draw-skid (drå'skid), n. Same as *brow-skid.
draw-stroke (drå'strök), n. In cricket, the
stroke of the bat by which a draw is performed.

Hutchinson, Cricket, p. 318.

draw-table (dra'ta'bl), n. A draw-bench;
a machine for drawing metal rods or tubes
through a die to reduce them to a particular
form and size.

draw-tube (drå'tūb), n. One of the overlapping movable tubes of a field-glass or telescope. drax (draks), n.; pl. draces (drā'sēz). [Gr. δράξ, a handful: akin to δραχμή, a drachm: see drachm, dram, drachma.] In the nomenclature of the missless alemnates. of the spicular elements of sponges, a tuft of monaxial filaments.

dray¹, n. 3. In forestry, a single sled used in dragging logs. One end of the log rests upon

dray¹, v. t.—To dray in, to drag logs from the place where they are cut directly to the skidway or landing. dray-road (dra'rōd), n. In lumbering, a nar-row road cut wide enough to allow the passage of a team and dray; a drag-road. Dr. Bot. An abbreviation of Doctor of Botany,

gine-or pump-cylinder.

Irawer, n. 6. One who draws warp-threads through heddles, preparatory to putting them into the loom.

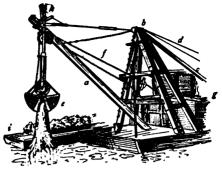
Iraw-game (dra'gām), n. A game of dominoes

JT. Unem. An appreviation of Doctor of Ch. D. dream!, n.—waking dream, in psychol., a dreamlike or visionary state, occurring in the waking life. It may be of all degrees, from the vivid visual imagery of normal reverte ('day-dreaming') to the hallucinatory state of the ecstatic.

dreamer, n. 5. pl. See the quotation.

A member of the band of chief Joseph, the leader of the non-treaty Nez Percés, was killed by whites, and the Indians are said to have made depredations on the crops of the latter; while a native religious sect, known as Dreamers, under the leadership of Smohalla, tended to widen the breach.

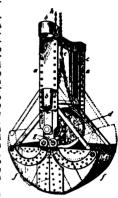
Encyc. Brit., XXIX. 463.



Clam-shell Dredging-machine

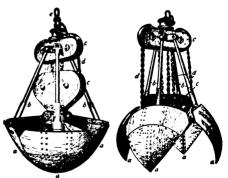
a, pivoted boom; b, "A" shape frame; c, stiff leg supporting frame; d, guy-rod; e, clam-shell bucket, lifting tree-stump; f, chains lifting bucket and controlling its operation; g, power-house; h, guide-poles; i, spoil-boat.

resembling the bivalve shell of a clam. The open bucket is lowered into the water till it sinks into the silt. The leaves are then drawn together, inclosing a mass of silt, and it is raised to the surface and discharged by open ing the two leaves.—Dipper dredging-machine, a machine consisting essentially of a strong fist-bottomed boat upon which are boilers and engines for handling a derrick erected at the bow of the boat. The derrick has a massive boom which supports a shovel or dipper resembling the scoop of a steam-shovel. The dipper is lowered to the bottom of the water, and, by means of chains, is dragged through the mud or silt until it is filled; it is then raised from the water, and the boom is swung to the right or left, over the bank or over a scow, and its contents are discharged. Since the boom swings in a half-circle in front of the boat, the machine can diredge out a channel equal



Since the boom swings in a half-circle in front of the boat, the machine can dredge out a channel equal in width to the diameter.—

Hydraulic dredging-machine, a dredging-machine, a dredging-machine, a dredging-machine, a protest of the suction-pipe. The end of the suction-pipe is let down into the water until it rests upon the water until it rests upon the sand. A jet of water through a hose, or some other mechanism for operating shells; \(\theta\), chain controllings the water until it rests upon the sand. A jet of water through a hose, or some other mechanical device is employed to loosen the sand, and the mingled sand and water are drawn up through the suction-pipe and forced into a discharge-pipe. The latter may be a long flexible pipe supported on boats or floats and extending over the water for a mile or more to the shore. The mingled sand and water are discharged on the shore, the water running back and the sand remaining on the shore. The sand forms about 20 per cent, of the discharge, but so large is the pipe and so rapid the flow that the machine has great capacity, excavating and delivering great quantities of sand in an hour. In the larger machines of this type the discharge is turned directly into hoppers in the hold of the sea-going vessel in which the machine is carried. The water escapes through gates, and when the vessel is loaded with sand, it proceeds to sea and discharges it in deep water.—Orange-peel dredging-



Bucket of Orange-peel Dredging-machine.

a, leaves of bucket; b, arms supporting leaves, pivoted at top and bottom; c, mechanism controlling operation of leaves; d, chains controlling leaves; e, litting-chains. Compare movements of parts as shown in open and closed position in two cuts.

machine, a dredging-machine having a bucket which is divided into four parts which resemble the skin of machine, a dredging-machine having a bucket which is divided into four parts which resemble the skin of an orange divided into quarters.— Vacuum dredging-machine, a dredging-machine which employs a vacuum, made by condensing steam in a suitable reservoir, in place of a pump to raise the mingled sand and water. Not in

dredging-pump (drej'ing-pump), n. A form of pump for use in the removal of water containing sand, mud, or other solid material

dreibund (dri'bunt), n. [G., \langle drei, three, + bund, alliance: see \(\delta bund^2 \).] A triple alliance. See. specifically, Triple Alliance, 3, in Century Cyclopedia of Names.

dreikanter (dri'kän-tér), n. pl. [G., 'three-cornered things.'] Angular and prismoidal pebbles whose flat faces have been cut by

pebbles whose flat faces have been cut by wind-blown sand. They sometimes closely resemble artifacts, for which they have been mistaken. Nature, Dec. 10, 1903, p. 143.

drenching (drench'ing), n. 1. The act of soaking or covering with water; a thorough wetting.—2. In vet. med., a dose of liquid medicine; at defeath, ing hith medicine; at defeath, ing hith medicine.

drenching-bit (drench'ing-bit), n. An appliance with a mouthpiece like that of a bridlebit, used for administering medicine to horses. The mouthpiece is hollow and has an opening midway between the ends; connected with it

Drepanaspis (drep-a-nas'pis), n. [NL., \langle Gr. $\delta p\acute{e}\pi a \nu o \nu$, a sickle, $+ \dot{a}\sigma \pi i \varsigma$, a shield.] A genus of ostracoderm fishes having the armor of the head more or less completely fused into large plates, the caudal region short, with small plates and heterocercal tail.

Drepanididæ (dre-pa-nid'i-dē), n. pl. [NL., < Drepanis (-id-) + -idæ.] The Sandwich Island honey-suckers of the genus Drepanis and related genera, considered as forming a distinct family of birds. They have curved, slender bills and extensile tubular, brushy tongues. See cut under Drepanis.

Drepanidiidia (dre pa-nid i-id i-is), n. pl. [NL.] A suborder of Hæmosporidia which infest the blood-corpuscles of amphibia, reptiles, fest the blood-corpuscles of amphibia, reptiles, and birds: contrasted with Acystosporidia. They are small uninucleated, gregarine-like organisms found in the red, rarely in the colorless, corpuscles. Destroying these, they are then liberated freely into the plasma. Later they pass through other changes, involving encystation in the red corpuscles, then flasion, and migration into new cell-hosts.

dress, v. t. 11. In veg. pathol., to treat (grain and other seed) with hot water, formaldehyde solution, or a similar fungicide, for the purpose of destroying the spores of smut and other

pose of destroying the spores of smut and other plant-diseases.—12. In milling, to clean and refine (flour); free (flour) from bran by passing it through bolters. See milling.

dress, n. 7. In printing, a set of types with their appurtenances; also, their arrangement

and their general appearance in print.

and their general appearance in print.

In consequence of this, a large number of small printing shops sprang up in obscure places, being generally known as "holes." These shops often used secondhand and worm-out dresses of type, and, operating secretly, produced pamphlets and small books of a very poor grade.

**Census Bulletin 216, June 28, 1902, p. 52.

Fancy dress, an unusual dress or costume that is imagined or intended to represent that of some historical or fictitious type or person. Sometimes used attributively: as, a fancy-dress ball.

dressor¹, n. 6. A mandrel having a round top face, used by blacksmiths in forging the forked ends of connecting rods.— Emery-wheel dresser, a hand-tool for truing and dressing worn, eccentric, or ill-

ends of connecting rods.— Emery-wheel dresser, a hand-tool for truing and dressing worn, eccentric, or ill-balanced emery-wheels.

dresser², n. 3. A dressing- or toilet-table.

dressership (dres'ér-ship), n. [dresser + ship.] In a hospital, the office of a dresser, a medical student or young physician whose duty is to dress wounds, ulcers, etc.

He [Sir James Paget] had been too poor to afford a ouse-surgeoncy, or even a dressership.

Encyc. Brit., XXXI. 406.

dress-form (dres'fôrm), n. A frame, sometimes of wire, in the form of a woman, used in making dresses. Such forms are sometimes capa-ble of being expanded and contracted, according to the proportions of the woman for whom the dress is fitted. dress-guard (dres' gärd), n. 1. A removable cover designed to be placed over the rim of a

carriage-wheel to prevent the garments of persons who are entering or leaving the cariage from coming in contact with the wheel.-2. A similar guard placed on the wheels of a bicycle.

dress-improver (dres'im-pro"ver), n. A bustle, usually in the shape of a pad or cushion, intended to give the desired curve to a woman's hips and back.

dressiness (dres'i-nes), n. Fondness for dress orfashionable dress; modishness; stylishness. [Colloq.]

such as occurs in dredging operations. See hydraulic *dredging-machine. The tube which carries up the mud, sand, or other solid materials from the bottom, or which delivers it at a distance. See hydraulic *dredging-machine. The tube which carries up the mud, sand, or other solid materials from the bottom, or which delivers it at a distance. See hydraulic *dredging-machine. The tube which carries up the mud, sand, or other solid materials from the bottom, or which delivers it at a distance. See hydraulic *dredging-machine. The tube which carries up the mud, sand, or other solid materials from the bottom, or which delivers it at a distance. See hydraulic *dredging-machine. The tube which carries up the mud, sand, or other solid materials from the bottom, or which covers the wound and adjacent parts, shutting out the air and obvious and size of the breaking, in metal., the breaking up of lumps of ore mixed with veintone so as to detach the former from the like, impregnated (or not) with corrosive sublimate or other antiseptic.—Occlusive dressing, one which covers the wound and adjacent parts, shutting out the air and obvious and size of the breaking up of lumps of ore mixed with veintone so as to detach the former from the like, impregnated (or not) with corrosive sublimate or other antiseptic.—Occlusive dressing, one which covers the wound and adjacent parts, shutting out the air and obvious and size of the pregnated (or not) with corrosive sublimate or other antiseptic.—Occlusive dressing, one which covers the wound and adjacent parts, shutting out the air and obvious and size of the pregnated (or not) with corrosive sublimate or other antiseptic.—Occlusive dressing, one which covers the wound and adjacent parts, shutting out the air and obvious and size of the parts of the pregnated (or not) with corrosive sublimate or other antiseptic.—Occlusive dressing, one which covers the wound and adjacent parts a butting out the air and obvious and size of the pregnation of the pregnation of the pregnation of the pregnat

dressing-forceps (dres 'ing-for seps), n. A forceps with pivoted blades and seissor-like handles used for grasping lint, drainage-tubes, etc., in dressing a wound.

dressing machine, n.—Box-dressing machine, a planing-machine which employs reciprocating planes moving between vertical guides, used to finish the corners of packing-boxes after they have been put together by a boxnalling machine (which see, under wnaiting-machine).

dressmakery (dres'mā'ker-i), n. A dressmaking establishment; a dressmaker's business.

She also gave her an insight into details . . . concerning the conduct of a dressmakery.

W. Besant, All Sorts and Conditions of Men, viii.

dressmaking (dres'māk'ing), n. The occupation of a dressmaker.

dress-preserver (dres'prē-zer'ver), n. ther-covered iron frame extending from the step of a carriage upward over the rim of the wheel, designed to prevent mud or water from being thrown into the carriage.

dress-suit (dres'sūt), n. A gentleman's evening clothes. [Colloq.]—Dress-suit case, a flat, thin traveling-bag, intended originally to carry a gentleman's dinner or evening dress.

drias (dri'as), n. [Origin obscure.] The deadly carrot, Thapsia Garganica. See cut under Thansia.

dribbler, n. 2. In foot-ball, one who 'dribbles,' or kicks the ball lightly along the ground. See dribble1, v. t., 3.

driblet-cone (drib'let-kon), n. A cone produced by the ejection of drops of molten lava or fragments of but partly solidified lava to no great height, so that they fall back still vis-cous and adhere to the surface wherever they

A driblet-cone has no crater, but simply a hole for the projection of lava in small liquid masses, drops, driblets, or worm-like streamlets. Dana, Manual of Geol., p. 271.

driery (dri'er-i), n. A drying establishment: as, a peach or an apple driery. Also spelled

The amount by which a ship is drifted by the action of a current, wind, or sea. (d) The place in the sheer where the rails are cut off. —11. (b) A conical steel pin used by riveters or fitters to drift or force two holes not quite or inters to drift or love two holes not quite in line with each other, so that the openings will coincide and let the rivet or bolt pass through.—17. (a) A set of fishing-nets. (b) A drift-net. (c) The catch of fish taken in a drift-net.—18. In turpentining, a subdivision of the crop, usually 2,100 boxes or cups.—19. In oceanography, a broad and shallow current which advances at a rate of ten or fifteen miles a day, like that which crosses the middle North Atlantic. W. M. Davis, Elem. Phys. Geog. - 20. In aëronautics, the tendency of an object supported in the air (as a kite or a bird) to move in the direction of the air; opposed to lift or the ascensional force. H. S. Maxim, in The Aeronautical Annual, 1896, p. 50. to lift or the ascensional force. H. S. Maxim, in The Aeronautical Annual, 1896, p. 50.—
Dead-reckoning drift (naut.), the determination of drift by dead-reckoning. When a ship is hove to under sail she will come up and fall off, and the middle point between is considered the compass-course, to which must be applied the leeway, variation, and deviation, in order to obtain the true course, or the true drift of the vessel. The speed of the ship on this drift is determined by the patent-log.—Drift of a projectile, deviation of a projectile from the plane of fire, caused by the rifling of the gun.—Drift of zero. See *zero.—Bakar drift, coarse gravel and shingle in banks. R. M. Johnston.—Extra-morainic drift, glacial debris occurring outside of the area actually occupied by the ice. R. D. Satisbury, Geol. Surv. of New Jersey, 1892, p. 61.—Lower terrace drift, gravels and shingle in terraces occurring in Tasmania and Australia. R. M. Johnston.—Overwash drift, the material which is washed out from the front of a glacier. R. D. Satisbury, Geol. Surv. of New Jersey, 1892, p. 61.—Treglacial drift, losse sand or gravel lying beneath the till, in Ireland. G. H. Kinahan.—Quartz drift, a drift containing quartz fragments as a prominent constituent of the loose rock-mantle. Science, March 16, 1901, p. 407.—Ripple drift, the process by which a moving current of water produces ripples upon the sand of its bed and thus leaves a record of its direction. Geikie, Text-book of Geol., p. 255.—River drift, the gravel deposits accumulated by a river in its torrential stages.—Rubble drift, a coarse agglomeration of angular debris and large blocks set in an earthy matrix. The fragments are of local type and the deposit of glacial or fluvioglacial origin. drift, v. t. 5. To drive: specifically, to drive by striking a set, pin, or block placed against the object to be driven.—6. To enlarge or shape a hole by the use of a drift-pin.

drift-angle (drift'ang'gl), n. 1. In naval arch., the angle between a taugent to the circular path of the center of gravity of a vessel, when turning under the influence of the rudder, and the central longitudinal line of the vessel.—2. The angle by which the direction axis of the bore of a gun deviates from the true direction in order to compensate for the drift of the ectile.

drift-bed (drift'bed), n. In geol., a layer of drift of sufficient uniformity to be distinguished from associated ones of similar origin; a driftstratum.

stratum.

drift-boat (drift'bōt), n. A boat used for putting out and taking in a drift-net.

drift-bottle (drift'bot'l), n. A bottle used for the same purpose as a *drift-cask (which see).

drift-cask (drift'kask), n. An empty cask closely sealed, usually furnished with a pole and flag, numbered, lettered, labeled, and tagged set drift in some next of the occupant to be tagged, set adrift in some part of the ocean, to be observed from time to time by passing vessels, as an aid in the study of ocean-currents. If it is found east upon the shore, the inclosed tags, or labels, or cards are sent to the nearest hydrographic office. See *drifter.

drift-deposit (drift'de-poz"it), n. Any accumulation of glacial origin; glacial or fluvioglacial deposit. J. Geikie, The Great Ice Age, p. 724.

drifter (drift'er), n. One who or that which drifts; specifically, a cask, buoy, float, or other light object, properly labeled and tagged, and allowed to drift freely in the ocean to determine allowed to drift freely in the ocean to determine ocean-currents. When the surface of the drifter above the water is intentionally made large, relatively to the immersed portion, the drift is due principally to the influence of the surface-winds. When the drifter is not exposed to the wind it shows the influence of the ocean-currents either at the surface or at a considerable depth, depending upon the depth of the layer in which it floats. This may be regulated to some extent by an arrangement similar to that of the Cartesian and Florentine divers. Drifters are set affoat in all parts of the ocean, and their paths are shown on the monthly pilot-charts, together with the paths of derelicts.

Excellent use has here been made of "drifters," or floats, supplementing the temperature and salinity observations. On the voyage from Iceland to Jan Mayen in 1896 twenty drifters were thrown overboard.

Geog. Jour. (R. G. S.), XV. 275.

drift-filled (drift'fild), a. Filled with drift: the condition of preglacial depressions, which were crossed by the great ice-sheet and filled with its morainal deposits.

A paper on the "Drift-filled and Post-glacial Glens of Ayrshire." Geog. Jour. (R. G. S.), XVIII. 88.

drift-fish (drift'fish), n. pl. Fish taken with a

drift-fish (drift'fish), n. pl. Fish taken with a drift-net. N. E. D.

drift-fisher (drift'fish'er), n. One who uses a drift-net; one who is engaged in a drift-fishery.

drift-fishery (drift'fish'er-i), n. A fishery in which drift-nets are used.

drift-keel (drift'kel), n. Same as bilge-keel.

drift-map (drift'map), n. A map showing the distribution of various classical and glosiofly yield distribution of various classical and glosiofly yield.

distribution of various glacial and glaciofluvial deposits, generally called drift.

drift-peat (drift'pet), n. A peat deposit associated with or imbedded in glacial drift.

The ancient alluvia with their arctic flora must be older than the drift-peat and timber that underlie the carse deposits of the 45 to 50 foot level.

J. Geikie, The Great Ice Age, p. 308.

J. Geikie, The Great Ice Age, p. 308.

drift-piece (drift' pēs), n. See drifts in the sheer draft, under draft.—Ordnance drift-piece, an attachment to the rear sight of a gun, by means of which compensation for the drift of the projectile, caused by the rifting of the bore, is made.

drift-pin (drift'pin), n. A steel pin having a slight taper, preferably largest in diameter at about the middle of its length and tapering toward the ends: used in ship-building and structural work to force the punched holes in the material into line, so that a rivet or bolt can be inserted. can be inserted.

can be inserted.
drift-way (drift'wā), n. In stock-raising, a right of way across neighboring land.
dril, drild. Simplified spellings of drill, drilled.
drill, n.— Calyx drill, a core-drill having a revolving cylindrical serrated cutting-tool. In soft rock, the cutter is used alone; in hard rock, chilled-steel shot are used as abradants. A stream of water is delivered to the cutter through the hollow drill-rod and, as it is under pressure, it sweeps the chips and stone-dust upward in the annular space between the outer casing of the drill-rod and the sides of the bore-hole. The rising stream of water and chips soon reaches the top of the short casing and here the current, having more room, slackens and the stone chips fall into the open top of the casing or calyx. The calyx, with its contents, is lifted out of the hole with

the tools, and the core is broken off and raised as with any form of core-drill.—Half-round drill, a form of boring- or perforating-tool for metals in which the cutting edge is made at the end of a bar of semi-cylindrical section or half-round rod. The flat part makes a channel up through which the borings may pass.—Oil-tube drill, a twist-drill in which is cut a slender channel, following the twist from the shank to the point, which is used to convey a fine stream of oil to the cutting-point and to cool and lubricate the tool: used in boring deep holes in steel. It can be used in any form of boring-machine.—Paddy-drill, a well-boring drill with expanding cutters.—Percussion-drill, the ordinary drill for handwork on rocks, which is struck by a sledge, or, where it is massive, is lifted up and allowed to fall into the drill-hole.—Pillar-drill. Same as pillar drilling-machine.—Pneumatic rotary drill, a form of boring-machine for steel or other metals, usually portable, and driven by compressed air. The motor in the body of the tool has a rapid rotary motion, geared down to the slower speed desirable for the cutting edges of the drill proper.—Pump-drill, a rock-drill in which the bar or shank is raised and lowered by a lever-action like a pump-handle. The descent of the bar causes the cutting blow of the bit at its lower end. The bar is turned continually as it rises and falls.—Sensitive drill. See *drilling-machine.—Setting-up drill, the methodical performance of certain calishenic exercises designed to give an erect carriage.—Sitting-drill, a drill for metal which cuts at its sides rather than at its end: hence, if the work is fed crosswise to the axis of the drill, a long alit or slot will be cut.—String-drill, a form of drill for light work in which the holder or shank is caused to revolve by a round turn of a piece of cord or catgut, to which a to-and-fro motion is given by hand or by foot-treadle. For jewelers use, the ends of the cord may be attached to the ends of a bow, making what is called a bow-drill.—

is fed into the hole by a gimlet point, or with a tool such as is ordinarily turned by hand.

drill-bone (dril'bōn), n. A bone which sometimes develops in the deltoid muscle in soldiers: supposed to result from irritation caused by the pressure of the musket.

drill-clamp (dril'klamp), n. A portable frame for holding a drill, having, usually, a screw for feeding the drill; a portable drill; a frame for a ratchet-drill. This frame is often called in American shops an old man.

drill-core (dril'kōr), n. Same as core!, 2 (i).

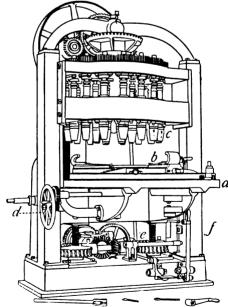
drill-extractor (dril'eks-trak"tor), n. A device, used in drilling tube-wells, by which the drill-rod or -bit can be drawn up out of the tube in case of breakage; a drill-tongs.

drill-grinder (dril'grin"der), n. A grinding-machine for forming different kinds of twist-drills and other drills.

drilling-clip (dril'ing-klip), n. A frame or

drilling-clip (dril'ing-klip), n. A frame or holder to force a drill against the service-pipe for gas or water when the latter is to be drilled and tapped to connect a new service-outlet.

drilling-machine, n. Specifically, a power-machine of the first class, employed in drilling small holes in metals. Small machines and all hand-power machines used for this purpose are often called drills, as the radial

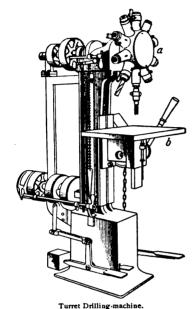


Multiple-spindle Drilling-machine.

a, traversing and partly rotating table; b, self-centering chuck; c, spindles (24), drilling tools not shown; d, wheel controlling traverse of table; e, feed mechanism; f, control. About 10 feet high.

drill (which is properly a radial drilling-machine). When the diameter of the boring-tool (drill) exceeds two inches the machine is properly a boring-machine. All machines for boring holes in wood are called boring-machine. See *boring-machine and boring-mill. The essential features of the machine are a rotary spindle carrying the cutting-tool, a table for holding the work, and a suitable frame

uniting these features into a complete machine. Drilling-machines are often named after the things on which the work is to be done, as rail-artilling machine, etc. Drilling-machines, when of superior construction, with great refinement of adjustment in the moving parts, are said to be sensitive; hence, the term sensitive drill, that is, one highly responsive to delicate and rapid adjustment. The drilling-machine is sometimes used also for other work, by employing tapping- and milling-cutters on additional spindles, as in the drilling-machine. See *boring-machine.— Baring-and-drilling machine. See *boring-machine.— Gang drilling-machine, a drilling-machine having from two to ten spindles placed in a row above the work-table, each supported by a fixed column or frame. The spindles may all carry the same style of drill or different ones, according to the requirements of the work, and may be used in turn, or all at once.— Multiple-spindle drilling-machine, a drilling-machine having four or more spindles. Two principal types are in use In one, the drill-heads which carry the spindles are supported on a cross-rail and are adjustable to any position, or at any angle on the cross-rail; in the other, the spindles are arranged in groups about a center, with adjustment along the radius of the circular group. — Turret drilling-machine, an upright drilling-machine, with a disk sup-



a, revolving turret with ten spindles, two shown with tools;
 b, table with vertical traverse and feed.

porting four or more radial spindles and having a rotary motion, under the control of the operator, whereby each spindle, with its special drilling-, reaming-, or other boring-tool, can be brought in turn to the work, thus making it possible to perform a series of operations upon the same piece without removing it from the table.—Upright drilling-machine, the most common and generally useful of the single-spindle drilling-machines. The spindle has a feed-motion, an automatic stop to control the depth of the hole, and a quick return in withdrawing the tool. The table is adjustable to the work and there is often a lower or floor table, the upper table swinging out of the way when this is used.

drilling-twill (dril'ing-twil), n. Same as drilling2.

drill-pin (dril'pin), n. In a lock, the projecting pin that serves as a guide for a hollow key.

drill-ship (dril'ship). n. A practice-ship; a
ship for the instruction of cadets; a vessel employed for teaching the rudiments of sea-manship, navigation, gunnery, and marine engineering.

drill-templet (dril'tem'plet), n. A templet or jig in which the holes to be drilled in the work are carefully laid out as to location and relative

are carefully laid out as to location and relative distance and hardened steel bushings are inserted at these points. If the drill is inserted through these bushings and the templet firmly clamped to the work the drill will bore all the holes exactly in the same relations to each other, in every piece.

drill-tongs (dril'tôngz), n. 1. A tool for gripping and extracting the drill-rod when the latter has been broken in the bore of a well and has fallen to the bottom.—2. A drilling- or horing tool with one isw which can go behind boring-tool with one jaw which can go behind or below the object to be perforated, while the bit is on the face or end of the other jaw, so

that closure of the jaws causes the bit to advance and make the hole.

drill-yard (dril'yärd), n. In railroading, a special yard for receiving, classifying, and forspecial yard for receiving, classifying, and for-warding freight-cars; a division or junction yard, as opposed to a freight, storage, way-station, or terminal yard. It is divided into three parts: the receiving-yard, where the arriving trains are received; the classification-yard or car-sorting yard; and the forcarding-yard, where departing trains are made up. The classification-yard is many times larger than the receiving- or the forwarding-yard and is always placed between them, in a continuous line, so that all movements of care shall be progressive or in the direction of their tracks all connected by switches with the main-line tracks, and it always includes tracks leading to the roundhouse, cally and it always includes tracks leading to the roundhouse, cally and it always includes tracks leading to the roundhouse, cally and it always includes tracks leading to the roundhouse, cally and the care and rew are dismissed and the train is delivered to the yard crews. Drill-engines then proceed to the gard crews. Drill-engines then proceed to the gard crews. Drill-engines then proceed to the gard crews. Drill-engines then proceed to the satisfaction-yard. This yard consists of always the train along the ladder, turning out each car (or group bound to on estation) into its special track, thus sorting them into way- or through trains for the next division, or better than along the ladder, turning out each car (or group bound to on estation) into its special track, thus sorting them into way- or through trains for the next division, or points in the neighborhood. In this classification process, all injured, damaged, or unsate cars, called criyptes, are to the care to

and melts at about 200° C.

drimol (dri'mol), n. [Drim(ys) + -ol.] A colorless compound, $C_{28}H_{58}O_{2}$, found in the leaves of *Drimys Winteri*. It crystallizes in needles, melts at 73-74° C., and boils without drive-pipe (driv'pip), n. 1. The feed- or supply the color of a hydrolization of a hydrolization of a hydrolization of a hydrolization. decomposition.

drinking-song (dring'king-sông), n. A song suited to convivial gatherings, or where toasts

are drunk.
drip, n. 6. In meteor., the drops of water which
fall from leaves and other objects which are enveloped by clouds or fog, or covered with envelopeu by clouds or log, or covered with dew. In some locations, such as the summit of Green Mountain, in the Island of Ascension, the cloud-drip is the only source of water for plants and animals. The fogdrip on the California coast is also important.

7. An inclined wooden platform, used in the manufacture of salt, for draining the salt before it is conveyed to the storehouse.—8. A description of the control of the storehouse of the salt before the salt

posit formed from dripping water, as stelactites in caves.—9. In hort, the water that drips from the sash-bars and other roof-structure of a glass-house. The true drip is due to the water of condensation, although the term is also applied to the water of leakage.

dripcock (drip'kok), n. A waste-valve or re-

leasing-valve used in hydrants. See *hydrant-

drip-cup (drip'kup), n. A shallow tray of tin or iron placed under a bearing or machine to catch the dropping oil, so that it will not soil anything underneath, and to preserve the oil which is usually strained and used again.

drip-grooves (drip'grovz), n. pl. Channels, in bearings for machinery, in which lubricant may be caught, as it is fed in drops or collects from a splash or spray surface, and fed to the entire surface of contact between shaft and bearing.

played; a drive from the tee.

drive-pipe (driv'pip), n. 1. The feed- or supply-pipe of a hydraulic ram.—2. A pipe to be driven into the ground for a driven well. A pointed strainer is put on the end of the pipe to make it drive easily and also to serve as a foot-valve.

driver, n., 1. (i) A horse which is fitted to be used for driving, in distinction from one used for riding or as a drafthorse. Drivers are classed as roadsters and standard-bred or trotters, the last being used for racing purposes. (j) In sporting phrase, a pigeon or other bird that when liberated from the trap, or flushed, flies rapidly and directly away. Contrasted with twister. (k) A wooden golf-club with which the ball is driven from the tee. Also play-club. See cut under golf-club.

driver-brake (drī'ver-brāk), n. A brake applied to the rim of a driving-wheel on a locomotive. Also called driving-wheel brake.

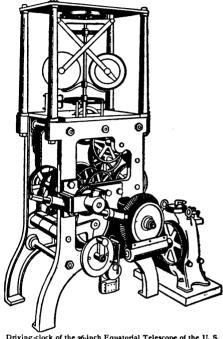
driver-chuck (dri'ver-chuk), n. A chuck fastened on the head-stock mandrel which drives work that is being turned between centers.

one part of a machine to another. It is usually made with detachable links, designed to run over sprockets, and is used in bicycles, motors, etc.

driving-cheek (dri'ving-chek), n. A wing projecting from the face of a disk, by which another element may be made to move or to revolve; a crank which drives by pushing a follower by a flat surface.

driving-chuck (driving-chuk), n. A lathe-chuck fitted with a driver for rotating the work. The chuck is usually a circular face-plate, having one or more pins projecting from its face. The name is sometimes applied to the cup-chuck, because the wood to be turned is driven into it by blows from a hammer. driving-cleik (dri'ving-klēk), n. In golf, an iron club with a comparatively straight face:

it is slightly deeper than the regular cleik.
driving-clock (dri'ving-klok), n. A form of
clock which drives a mechanism or apparatus,



Driving-clock of the 26-inch Equatorial Telescope of the U. S. Naval Observatory at Washington.

as a telescope, heliostat, or chronograph, at a uniform rate which is directly related to the passage of time. Such clockwork is attached to an equatorial telescope, so that the tube shall move exactly in opposition to the motion of the earth on its axis, and the optical axis of the lenses be directed continuously upon a star. In stellar photography, calling for long exposures, the driving-clock of the telescope-tube must be of the greatest refinement and accuracy as a machine and a timekeepe

driving-cushion (dri 'ving-kush 'on), wedge-shaped cushion for the driver of a care. It is placed on the carriage-seat, with the thin in front, so that the driver is held in a half-sitting riage.

driving-flange (driving-flanj), n. A flange or rim on a wheel or shaft which, by friction or by engagement, drives another part of the machine.

driving-iron (drī'ving-ī'ern), n. In golf, an iron club with less loft than the regular iron and a slightly deeper face.

driving-mashie (dri'ving-mash'i), n. In golf, an iron club with a small, deep face, with less loft than an ordinary mashie, and usually with longer shaft.

a longer snau.
driving-pinion (driving-pin'yon), n. Any
small toothed wheel which drives another, or
small toother receives its motion. Nafrom which another receives its motion. Nasmith, Cotton Spinning, p. 213.

driving-putter (dri'ving-put'er), n. In golf, a wooden putter with a straight face, used in playing against the wind.

work that is being turned between centers.

driver-mast (dri'ver-mast), n. On a six-masted vessel, the after-mast. See *after-mast. driving-belt (dri'ving-belt), n. The belt by driving-rein (dri'ving-ran), n. A rein fitted with a billet and buckle at one end for the attract of the bit; the other end is stitched

mary belt that conveys motion.

driving-bit (drī'ving-bit), n. A light bit of varying pattern and construction designed especially for trotting-horses.

driving-chain (drī'ving-chān), n. Any form of chain used in transmitting power from a motor to a tool, machine, or conveyor, or from one part of a machine to another. It is usually made with John to the statement of the bit: the other end is stitched to the hand part.

driving-rod (drī'ving-rod), n. In locomotives, the connecting-rod; the main-rod: distinguished from the side-rod.

driving-wing (drī'ving-wing), n. One of the arms of a double crank, or of a crank formed in the shaft to be driven, at such a distance from either and the the shaft to be driven, at such a distance from either and the the shaft to be driven, at such a distance from either and the the shaft to be driven, at such a distance from either and the the shaft to be driven, at such a distance from either and the the shaft to be driven, at such a distance from either and the the shaft to be driven, at such a distance from either and the the shaft to be driven, at such a distance from either and the the shaft to be driven, at such a distance from either and the the shaft to be driven, at such a distance from either and the the shaft to be driven. shaft on each side of the crank. If one of the arms is lighter in weight than the other, by reason of the smaller resistance to be overcome on one side of the crankpin, the driving-wing will be the more massive arm.

dorsally. The group belongs wholly to Meso-

zoic time. dromograph (drō'mō-graf), n. [Gr. δρόμος, running, + γράφειν, write.]
1. A device for recording the rapidity of the blood-current.—
2. An instrument for recording the apparent 2. An instrument for recording the apparent path of anything in the atmosphere. It has a vertical cylinder on which directions in azimuth and altitude may be inscribed by pencils which slide vertically. A telescope pointing toward a balloon, a bird, a kite, or a cloud carries the pencils with it, and the record made by the latter gives the altitude and azimuth of the object at any moment. Two dromographs, with observers at stations a short distance apart, can obtain a continuous record of the movement of an object that is mutually visible. Having clocks that agree perfectly, they make time-marks every five minutes on the respective records. dromometer (drō-mom'e-ter), n. An instrument for the measurement of velocity; a speedindicator.

indicator.
dromometry (drō-mom'e-tri), n. The measurement of speed; the use of the dromometer.
Dromornithidæ (drōm-ōr-nith'i-dē), n. pl.
[NL., < Dromornis, (Dromornish-) + -idæ.] A family of large, extinct birds which contains species related to the emu.
dromos, n. 3. In Gr. antiq., the shortest footrace which was just the length of the stadium, or about 600 feet. See stadium.—4. The entrance to the Mycenæan beehive tomb. See *heehive tomb. indicator.

 \star beehive tomb.

dromoscope (dro'mō-skōp), n. An instrument for exhibiting the circulation of winds around a storm-center, or for locating a storm-center when the direction of the wind is known.

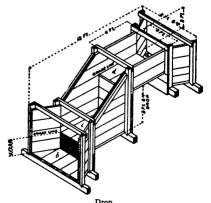
dromotropism (drō-mot'rō-pizm), n. Interference with the conductivity of muscle.

The centrifugal cardiac nerves influence the frequency, the force of contraction, and the conductivity of the excitatory wave (chrono, ino, and dromo-tropism of Engelmann).

Brigg. Brit., XXXI. 733.

drone¹, n. 3. The tone emitted by the drone

drone¹, n. 3. The tone emitted by the drone of a bagpipe.
drong (drong), n. A lane or narrow passage.
[Prov. Eng.] N. E. D.
Drooping disease, n. See *disease.
drop, v. 1. intrans. 10. In archery, to fall short of the mark aimed at: said of an arrow.—11.
To show a tendency to lower the shoulders, due to weakness of the muscles: said of a horse.
—To drop asleep, to sink quietly into slumber; figuratively, to die peacefully, without struggle, and as if unobserved.—To drop off. (1) To become detached and fall: as, the petals dropped off, one by one; (2) to drop asleep; (3) die peacefully, and as if unobserved; (4) become less regular; fail gradually: as, he began to drop off in his visita.—To drop to, to 'tumble to'; 'catch on'; become aware of; begin to understand; perceive: as, the crowd did not drop to his game for some time.
[Slang.]



s, flaring approach and submerged platform; δ , flaring wings d submerged platform of outlet to ditch below drop; ϵ , floor on g grade of the ditch below the drop forming a water-cushion; d, ort flume on grade of ditch above drop.

Drobisch's spiral. See *spiral.

drog (drog), v. t. To transport or carry in a droger: as, he was engaged in drogging sugar from the West Indies. N. E. D.

Dromatheriidse (drognatheriide), n. pl.

[Dromatheriidse (drognatheriide), n. pl.

[of ten points in copper; a drop of twenty degrees in temperature in as many hours.—[20. In tabular work, a drop-line.—21. In baseball, a ball so delivered by the pitcher that it shoots downward.—22. In tennis, a ball so struck by the racket as to shoot sharply downward after crossing the net.—23. A patent-leather ornament, pear-shaped or of other ornamental form, used on the face-straps and hip-straps of a harness.—24. The newly born young of animals: most commonly used in young of animals: most commonly used in speaking of sheep.—Black drop, vinegar of opium.
—Drop culture. See *culture.—Green drops, a solution of mercuric chlorid or corrosive sublimate, colored green to attract attention to its poisonous character.—Hoffmann's drops, the pharmaceutical name for a mixture of three parts of alcohol and one part of ether: used as an anodyne, and called after Hoffmann, of Halle, who died in 1742. Also called Hoffmann's anodyne.—Knockout drops, a powerful narcotic, such as a saturated solution of chloral hydrate in water, or a preparation of the fruit of Cocculus Cocculus (fishberries): employed by evil-doers to stupely their intended victims.—To have the drop on one. Same as to get the drop.

drop-arch (drop'arch), n. An arch lower in proportion than is usual: as, a blunt-pointed arch, a segmental arch, or a three-centered

drop-berry (drop'ber"i), n. The Solomon's-seal, Polygonatum, applied to P. multiflorum and P. commutatum. See Solomon's-seal.

drop-bolt (drop'bolt), n. 1. A bolt so constructed as to drop into a socket.—2. The bolt which keeps the drop of a gallows in place until the signal for its withdrawal is

drop-cake (drop'kāk), n. A small cake made by dropping thick batter from a spoon into hot, deep fat, or on a well-buttered pan to be baked in the oven.

drop-door (drop'dor), n. In car-building, the gate or flap of a hopper or drop-bottom car. See drop-bottom.

drop-dry (drop'drī), a. Water-tight; proof against leaks: as, a drop-dry roof. N. E. D. drop-ear (drop'er), n. An ear that turns downward, as in certain dogs. See *drop-

drop-eared (drop'ērd), a. Having ears that turn downward, but are not so long and pendulous as those of a hound: said of dogs. drop-flower (drop'flou'er), n. Any plant of the genus Nabalus, so called from its nodding heads. It is better known as rattlesnake-root (which see).

(which see).
drop-forge (drop'fōrj), v. t. To shape by the impact of a falling mass or weight. Usually the shaping is done by one blow received upon the stock while the latter is held between hardened steel dies carefully adjusted to each other, so as to hold each one half of the required shape. When the two halves come together by the fall of the weight, the stock takes both form and impress from the dies, and a finished product results, needing only trimming and polishing. Most manufactured forgings for the parts of sewing-machines, guns, bicycles, automobiles, and the like, are made by this process, and fine patterns in forks, spoons, and metal ware can be similarly produced, with great economy of labor and exact duplication of size and form. See drop-press.

drop-frame (drop'fram), n. In candy-making, a hand- or power-machine for making the many forms of fruit or other drops; a fruitdrop frame. It consists of a pair of rolls engraved with forms of fruits, fishes, toys, etc., between which the sheets of candy are passed and by which they are impressed and cut into drops. The finished drops are delivered to a traveling apron and conveyed through cooling-boxes to be chilled and hardened.

to drop to the sides.

drop-gate (drop'gāt), n. A gate in an irrigation-canal operated in such a way that it can be opened by dropping a shutter.

drop-handle, n. 2. A carriage-door handle which is attached to the spindle in such a manner that it hangs down when not held in the hand.

to drop to the sides.

dropwort, n.—Western dropwort, Porteranthus trifoliatus. See cut under Gillenia.

droseraceous (dros-e-rā'shius), a. Belonging to the plant-family Droseraceæ; pertaining or related to the sundews.

droshky, n. 2. A very low four-wheeled carriage of the cabriolet type.

Drosophildæ (dros-ō-fil'i-dē), n. pl. [NL.. \(Drosophila + -idæ. \)] A family of acalyptrate

II. trans. 10. To lose or part with: as, to drop-hook (drop'huk), n. A harness check-drop a thousand dollars at poker. [Slang.] hook secured to its base by a collar which lrop, n., 9. (a) A device of timber, metal, or masonry allows the hook to drop to the sides.

drop-jaw (drop'jà), n. Paralytic rabies in the dog: so called from the half-open mouth, due to paresis of the jaw muscles, which is characteristic of this form of the disease.

The dumb form of rables is very common, and many ersons know it as "drop jaw" who have no idea of its ue nature.

Yearbook U. S. Dept. Agr., 1900, p. 233.

drop-key (drop'kē), n. In lock-making, a key having a hinged shank to allow the end or bow to hang down parallel to the door.

drop-leg (drop'leg), n. A vertical pipe which carries gas, steam, or water downward from a horizontal pipe.

drop-lever (drop'lev'er), n. 1. A lever having a drop or an offset to pass an obstacle or to bring the end to any desired point.—2. A lever that drops or swings on a pivot, used to disengage the feed or stop any part of a ma-

drop-light, n. 2. An electric lamp, analogous to a gas drop-light, for table use.—3. A coachwindow that can be dropped in grooves in the framework of the coach, so as to be out of sight.

drop-line (drop'līn), n. 1. A hand-line; a fishing-line worked by hand without a rod. See hand-line.—2. A horizontal line, as in a genea-logical table, which is carried lower down when the space for continuing it horizontally is insufficient.

is insufficient.

drop-lubrication (drop'lū-bri-kā'shon), n.
Lubrication by some device which drops the oil upon a bearing constantly, instead of applying it in a flood intermittently.

drop-meter (drop'mē'ter), n. An instrument for measuring liquids by drops.

drop-motion (drop'mō'shon), n. An arrangement on a yarn-reel by means of which two of the arms of the reel can be shortened so as to release the hank and facilitate its removal.

dropping, n. 5. pl. The waste material which drops under a machine, as in the process of scutching cotton.

The primary impurities from each of the two processes

The primary impurities from each of the two processes of opening and scutching are known as the *droppings*.

Hannan, Textile Fibres of Commerce, p. 115.

6. A disease of cattle commonly known as milk fever, somewhat analogous to puerperal fever in women: so called because the cow drops to the ground when sick.—Iceberg droppings, debris deposited from an iceberg.

The results obtained by geologists, who have been studying the peripheral areas of the drift-covered regions of our continent, are such as to satisfy us that the drifts of those regions are not iceberg-droppings.

Smithsonian Rep. 1890, p. 221

dropping-flask (drop'ing-flask), n. A light glass vessel for delivering liquids by drops: also used for weighing out liquids.



liquids.

dropsy, n. — Abdominal dropsy, ascites. — Amniotic dropsy, hydramnioa. — Articular dropsy, hydramnios. Gardiac dropsy, dropsy consequent upon weak circulation due to heart-disease. — Dropsy of the prain, hydrocephalus. — Dropsy of the brain, hydrocephalus. — Dropsy of the pericardium, hydropericardium. — Dropsy of the pleura, hydrometra. — Dropsy of the pleura, hydrometra. — False dropsy. Same as retention cyst (which see, under retention). — Hepatic dropsy, dropsy (ascites) due to obstruction of the flow of blood in the veins of the liver.

dropsy-plant (drop'si-plant), n. The common

dropsy-plant (drop'si-plant), n. The common garden- or lemon-balm, Melissa officinalis, reputed to cure dropsy.

puted to cure dropsy.

dropt, pp. A simplified spelling of dropped.
drop-table, n. 2. A table, without legs, which
is hinged to a wall. When not in use it may hang
down against the wall; when in use it is propped up by
one or two hinged braces or by a revolving bracket: used
in boat-cabins and in small pantries.

drop-terret (drop'ter"et), n. A harness-terret
attached to its base by a collar which allows it
to drop to the sides.

to drop to the sides.

muscoid Diptera of which Drosophila is the type: commonly known as the little fruit-flies. drosophore (dros'ō-fōr), n. [Gr. δρόσος, dew, + -φορος, < φέρειν, bear.)] A device for spraying water into air to increase its humidity; a kind of atomizer.

dross, v. t. 2. To convert (lead) into dross or protoxid by melting in an oxidizing atmosphere. The operation is usually accomplished in a reverberatory furnace.

drove² (drov), v. t. and i.; pret. and pp. droved, ppr. droving. To follow the occupation of a drover.

drove-road (drov'rod), n. An ancient road or track along which cattle may be driven, but which is not kept in repair: same as drove²,

drown, v. t. 4. In phys. geog., to submerge beneath the waters of a lake or ocean: said of a valley that is thus converted into a bay by a relative change of land- and water-level. *drowned stream.—5. In tobacco culture, to injure by long-continued rain followed by warm sunshine. The tobacco soon wilts under these conditions. Also called scald.

This tobacco was cut after being drowned or scalded.

Yearbook U. S. Dept. Agr., 1897, p. 33.

drownd, pp. A simplified spelling of drowned. drowned (dround), p. a. That has been drenched or submerged, as drowned lands; also, that has perished by drowning.—Drowned boiler. (a) A type of sectional boiler in which the evaporating units deliver the steam formed in them into a drum or chamber below the level of the water in the latter: distinguished from a 'foaming' boiler, in which each unit disengages from the area of its own cross-section only, or above the water-level of the steam-and-water drum. drownd, pp. drowned (d

The Belleville boiler belongs to what is called the "foaming" class. This epithet is not applied as a mark of disparagement in any way, but simply to distinguish it from the "drowned" class. The difference between the two is that, whereas in the "foaming" class the tubes deliver the steam above the water level in the large steam drum, in the "drowned" type the steam is delivered in the drum below the water line.

Sci. Amer. Sup., Dec. 27, 1902, p. 22566.

Sci. Amer. Sup., Dec. 27, 1902, p. 22566.

(b) A fire-tube upright boiler in which the tubes forming the heating-surface are surrounded for their whole length by the water to be evaporated, instead of projecting for part of their length above the normal water-level. This construction diminishes the tendency to leakage at the upper tube-sheet, because the tubes are not subject to such wide ranges of temperature change, and to such changes of length relatively to the outer shell, as the fire varies in intensity or the water-level is carelessly lowered.—Drowned level, a horizontal passage or level, as in a mine, at each end of which an upward shaft, either inclined or vertical, rises above the level of the roof. Such passage and shafts form an inverted sphon, and water gathering there fills it up, and can only be removed by pumpling, as no drainage is possible.—Drowned stream, a stream whose valley has subsided until the sea, encroaching upon it, has formed a bay or estuary of its lower course. The St. Lawrence, Hudson, Chesapeake, and Delaware rivers are examples of drowned streams entering the sea. The St. Louis river flowing into Lake Superior illustrates similar inland relationships. See *drown, 4.

drowner, n. 2. In irrigation, one who works the sluices of reservoirs and side-channels, in the upper part of a valley, which flood or

The manifestations of drug action thus produced are carefully recorded, and this record of "drug-diseases," after being verified by repetition on many "provers," constitutes the distinguishing feature of the homeopathic materia medica.

Encyc. Brit., XXIX. 312.

druggy (drug'i), a. [drug + -y¹.] 1. Of or relating to drugs. -2. Being under the influence of a drug.

drug-mill (drug'mil), n. A special grindingmill used in the manufacture of drugs.

drum¹, n., 1. (b) The head or membrane of a banjo similar instrument.

83. (k) A circular box, revolved by machinery, in which skins are tanned or colored. See also *coloring-wheel. C. T. Davis, Manuf. of Leather, p. 337.

8. (b) A drummer in a military command.

12. An inflatable sac on the side of the neck

of such a bird as the prairie-chicken: sup-posed to give resonance to the sound produced

by the wings when drumming. See tympanum, 2. (c) (2).—13. An Australian bushman's bundle; a swag.—14. The revolving cylinder of the kymograph, chronograph, or other instrument, upon the surface of which curves are drawn, time records made, etc.

The clockwork of the kymograph is wound up, and the drum swung round to its proper starting-point.

E. B. Titchener, Exper. Psychol., L. i. 104.

Black drum, the salt-water drum, Pogonias chromis. See cut under drum.—Conical drum, in mining, a form of rope-drum used on hoisting-engines to equalize the variation in load due to the varying length of the hoisting-rope as the load ascends or descends in the shaft. Such drums are usually double and serve two hoisting-compartments, one load ascending as the other descenda.—Drum—Endone signal. See **xignal.—Drum membrane.—Same as tympanic membrane.—Wash drum, a drum for washing skins. Modern Amer. Tanning, p. 81.

drum¹, v. t. 5. To treat in a drum, as skins. See *drum¹, n., 3 (k). Modern Amer. Tanning, p. 90.—6. In forestry, to haul (logs) by drum and cable out of a hollow or cove.

drum-barrage (drum'bar'āj), n. See *bar-

drum-beat (drum 'bēt), n. The sound of a

drumbledore (drum'bl-dōr), n. An imitative variant of dumbledore (a bumblebee). Compare drumble-drone. Sometimes applied figura-

drumble-drone. Sometimes applied figuratively to a person. [Prov. Eng.] drum-dial (drum'di'al), n. A revolving cylindrical surface on which a record is kept in a time-register. Engin. Mag., July, 1904, p. 618. Drumhead motion, the vibratory motion or wave-motion of the head of a drum, boller, or tank. drum-language (drum'lang'gwāj), n. A system of communication in which certain ideas are expressed by phythymical combinations of

are expressed by rhythmical combinations of drum-beats. This method of signaling is found among the negroes of the west coast of Africa. Ratzel (trans.), Hist. of Mankind, II. 406. drumlinoid (drum'lin-oid), a. and n. [drumlin + -oid.] I. a. Resembling a drumlin.

Some of the principal ridges present drumlinoid profiles, while their lateral alopes were greatly over-steepened. Sci. Amer. Sup., Jan. 16, 1904, p. 23447.

II, n. A hill resembling a drumlin in shape. drumlinoidal (drum-lin-oi'dal), a. Same as Same as *drumlinoid.

drumloid (drum loid), a. and n. [druml(in) + -oid.] Same as *drumlinoid.— Drumloid hill, a hill having a lenticular outline similar to that of a drum-

While the drumlin type is fairly distinct, drumlins grade into hills which are not drumlins. When they become somewhat irregular in form they are sometimes designated drumloids, drumloid hills or immature drumlins. It is not certain that some of them may not be over-mature drumlins—that is, drumlins made irregular by unequal surface deposits upon regular drumlin forms. R. D. Salisbury, Geol. Surv. of New Jersey, 1891, p. 74.

drummer, n. 4. A horse that beats the air by drummer, n. 4. A horse that beats the air by throwing its fore legs out irregularly as it goes.
Grose. [Jockey cant.] — 5. Same as drum!, 11.
— 6. A local English name for a rabbit: so called on account of its habit of beating or drumming upon the earth with the hind feet.
drumstick, n. 4. The tetanus bacillus, which has a round agree at one extremity. afford an drumstick, n. 4. The tetanus bacillus, which has a round spore at one extremity.

If the second of the long-continued or habitual use of a drug-disease (drug'di-zēz), n. 1. A morbid state caused by the long-continued or habitual use of a drug.—2. In homeopathic medicine, the complex of symptoms noted after the administration of any drug for purposes of proving.

The manifestations of drug action thus produced are carefully recorded, and this record of "drug-disease" after being verified by repetition on many "stitutes the distinguishing for material medica.

The manifestations of drug action thus produced are carefully recorded, and this record of "drug-disease" after being verified by repetition on many "stitutes the distinguishing for material medica.

drunk, p. a. 3. Bent; crooked: used to describe a bent screw which imparts a sidewise drying-room (dri'ing-röm), n. A room, as in as well as an endwise motion to a nut.

A room, as in a factory, where drying operations are carried

as well as an endwise motion to a nut.

drunkard, n. 2. [pl.] The marsh-marigold.

—3. [pl.] The wintergreen or checkerberry,
Gaultheria procumbens.

drying-room (dri ing-room), n. A room, as in a factory, where drying operations are carried on.

drying-stove (dri ing-room), n. A room, as in a factory, where drying operations are carried on.

drying-stove (dri ing-room), n. A room, as in a factory, where drying operations are carried on.

See drying-oven, under oven.—2. A

drunken, p. a. 5. Producing intoxication, or laundry dry-room.

laundry dry-room.

laundry dry-room.

drying-train (dri'ing-train'), n. A number of receptacles containing desiccating materials, drunken date, the darnel, called drunken rye
so joined together that any gas passing through

drunkenness, n. 3. In mech., unsteadiness, crookedness, or inequality of pitch in a screw, such that the nut either wabbles or does not such that the nut either wabbles or does not advance at a constant speed.—Sleep drunkenness, a confused mental state and muscular incoordination sometimes seen in one aroused from a deep sleep.

drunkery (drung'ke-ri), n.; pl. drunkeries (-riz.) [drunk + -ery.] A place in which to get drunk; a grog-shop or saloon. [Colloq.]

N. E. D.

drupal (drö'pal), a. [drupe + -al.] Same as drupaceous.

drupiferous (drö-pif'e-rus), a. [NL. drupa, drupe, + L. ferre, bear.] Bearing drupes. drusiness (drö'zi-nes), n. The state of being drusy; exhibiting a surface of minute crystals.

Drusiness is sometimes produced by a regular deposit upon the faces of one mineral of minute sub-individual belonging to a different species.

H. Miers, Mineralogy, p. 86.

Drusy vein. See *vein.
dry. I. a. 14. In pathol., not attended with suppuration, a fluid discharge or exudation, or hemorrhage.—Dry arch, element, etc. See **arch1, etc.—Dry method, in chem., same as dry way.—Dry streak. Same as dry **dac.

II. n. 4. Dry land: as, to execute a piece of engineering work in the dry (that is, not

under water).

Owing to the annual rise and fall of the Nile, it was seldom that such work [the digging of a canal] could be executed in the dry.

Sci. Amer. Sup., Jan. 10, 1903, p. 22590.

dryback (dri'bak), a. Having no water-space at the back end: used in reference to boilers which have no water-space at the back of the combustion-chamber.

dry-blowing (drī'blō"ing), n. A method adopted in Western Australia, of freeing pounded gold ore from the powdered matter when water is not available. It consists in slowly when water is not available. It consists in slowly pouring the crushed material from one dish into another and blowing away the powder with the mouth as it falls, when there is not wind enough to do the work.

Drydenian (dri-dē'ni-an), a. Of, pertaining

or characteristic of John Dryden, the Eng-

lish poet (1631-1700).

He [Crabbe] reverted to the *Drydenian* triplet and Alexandrine on which Pope had frowned.

G. Saintsbury, Hist. Nineteenth Cent. Lit., p. 8.

Drydenic (drī-den'ik), a. Same as *Drydenian.

Drydenic (dri-den ik), a. Same as * Drydenian.
Drydenism (dri'den-izm), n. A phrase, turn of expression, or the like, characteristic of John Dryden, the English poet.
dry-fly (dri'fli), n. In angling, an artificial fly intended to float on the surface of the water like the natural insect. Also called floating

Dry-fty fishing, although more or less has been heard about it, is still little practiced in this country, and many anglers will be interested to see the work done at the tournament with dry fies.

Forest and Stream, Feb. 21, 1908, p. 151.

Dry-fly casting, in angling, a mode of fly-casting in which the fly is not allowed to sink below the surface of the water.—Dry-fly fishing, in angling, fishing with the

To define dry-fy fishing, I should describe it as presenting to the rising fish the best possible imitation of the insect on which he is feeding, in its natural position. F. M. Halford, Floating Flies, p. 117. dry-hole (dri'hōl), n. A hole in a mine or

quarry in which no water can be used in the drilling process. Such is any hole the mouth of which is at a lower level than the bottom

or which is at a lower level than the bottom as the drilling proceeds.

drying-bath (dri'ing-bath), n. In chem., a vessel, often made of sheet-copper or sheet-iron, cubical or nearly so in form, in which substances are heated to a determinate temperature in order to drive off water, or sometimes alcohol or other liquids. perature in order to drive off water, or some-times alcohol or other liquids. The walls are often made double, and hot water or steam occupies the intervening space. An electric current is sometimes passed through resistance-colls so as to produce an easily regu-lated temperature. Also called drying-oven. drying-cylinder (dri'ing-sil'in-der), n. A hol-low metal cylinder, heated by steam, for drying to the fabrical beautiful to contact with its

A number of

drunken-fish (drung'kn-fish), n. One of the dry-kiln (dri'kil), n. In lumbering, a kiln for trunk-fishes, Lactophrys triqueter. [West drying and seasoning cut lumber boards of the drying and seasoning cut lumber boards.] drying and seasoning cut lumber, boards, etc.; a lumber drier. Such kilns are often made of great size, contain tracks for cars loaded with lumber, and are fitted with steam-heating pipes and power-fans for delivering warmed air.

dry-mixer (dri'mik'ser), n. See *sand-mixer.

Drynaria (dri-nā'ri-ā), n. [NL. (J. Smith, 1841, adopted from Bory de Saint-Vincent, 1825, as subgenus), (Gr. δρῦς, oak.] A peculiar genus of mainly epiphytic polypodiaceous ferns mostly with fronds of two sorts, the charge ones generally acceptable processories. sterile ones sessile, concave, cordate-oblong and sinuate or laciniate, having little chlorophyl and conspicuous, raised venation; the fer-

tile ones larger, pinnatifid or pinnate, the sori roundish, naked, sometimes confluent, borne at the junction of the compoundly anastomosing veinlets. There are about a dozen species, widely distributed in the eastern hemisphere, of which *D. quercifolia* is the best

ol. [NL., A large Dryopterideæ (drī-op-te-rid'ē-ē), n. pl. [NL., \(Dryopteris \) (Dryopterid-) + -eæ.] A large tribe of polypodiaceous ferns of various habit and venation, typfied by the genus Dryopteris. They have the stipes continuous with the rhizome, the sori terminal or dorsal, the indusia superior and either free upon all sides or extrorse, or often lacking. The genera occurring within the United States and Canada are: Dryopteris, Phegopteris, Goniopteris, Phanerophilebia, Polystichum, Sagenia, and Tectaria.

Dryopteris (dri-op'te-ris), n. [NL. (Adanson, 1763), \langle Gr. $\delta\rho\bar{\nu}c$, oak, + $\pi\tau\epsilon\rho\dot{\nu}c$, a fern. The name alludes to frequent association of ferns with oaks and groves generally.] A large genus of polypodiaceous ferns, type of the tribe Dryopterideæ with fronds pinnate to tripinnate or dissected, the venation usually free, and the sori roundish with superior cordato-reniform indusis fixed at the sinus. The type of the genus is D. Füix-mas, the well-known male-fern or vermifuge, of wide distribution. Nineteen species occur within the United States and Canada, many of them the commonest woodland species. See male-fern and Nephrodium.

dryopteroid (dri-op'te-roid), a. Resembling or related to the genus Dryopteris, or the tribe

Dryopterideæ.

dry-pipe (dri pip), n. A pipe, running along near the top of the steam-space, which takes steam from the boiler. It is perforated with a number of small holes, the end being closed to prevent any large body of water from entering. The aggregate area of the holes is a little less than the area of a cross-section of the steam-pipe, so that the steam will be slightly expanded and superheated so as to become thoroughly dry.

dry-room (dri'rom), n. In laundry-work, an losed chamber heated by steam-pipes, used in drying shirts, collars, and other laundered articles. It is made of wood lined on the inside with sheet-metal and asbestos, or is made entirely of metal and fitted with wood or metal racks on which the articles are hung while being dried. Dry-rooms are also fitted with suction-fans for removing the heated air when it is satuated with moisture.

dry-rot, n., 1. Trametes Pini, Thelephora pedicellata and other Hymenomycetes cause a timber disease. See *conk3, 3, and Thelephora. Fusarium Solani and several species of Phoma cause a fungus disease of potatoes, turnips, and other root-crops.

dry-rot (dri'rot), v. t. To affect with dry-rot.

dry-salt, v. t. 2. In dairying, to add the salt to the butter while it is being worked. [Eng.] dryster (dri ster), n. A drier; one employed in a drying establishment; one who is engaged in carrying on some drying operation. r. Z., Dr. Zool. Abbreviations of Doctor of

Zoology.

D. S. An abbreviation (b) of Doctor of Science.

Doctor of Science. D. S. D. Sc. D. An abbreviation of Doctor of Science and Didactics.

An abbreviation of Doctor of Science and Didactics.

An abbreviation of Doctor of Science and Didactics.

D. S. O. An abbreviation of Distinguished Service Order.

d. s. q. An abbreviation of discharged to sick

quarters.
D. T., D. Th. Abbreviations of Doctor of The-

ology.
d. t. An abbreviation (a) of delirium tremens. d. t. An abbreviation (a) of delirium tremens.

[Slang.] (b) In elect., of double-throw: as, a d. t. switch.

D-trap (de'trap), n. In plumbing, a term sometimes applied to simple forms of traps resembling the letter D.

Duck-egg porcelain. See *porcelain. ducker² (duk'er), n. 1. One who rears ducks.

—2. A ducking-gun (which see).

duck-grass (duk'grás), n. See *grass.

duck-ladder (duk'ald'ér), n. A short ladder.

Du. An abbreviation of Dutch.

iual. I. a. 3. In geom., given by a principle duck-mud (duk'mud), n. Same as crow-silk of duality, as by interchanging point and (which see).

II. n. 2. In geom., a figure or theorem obtained by a principle of duality, as by interchanging side and angle in a plane.—3. In chess, a problem which has two solutions, that is, one in which the mate can be given either by one or by two pieces, or by one piece on two or more different squares.

dualism, n.— Ethical dualism, a moral system which demands one kind of conduct toward fellow-members of one's own social group, and the opposite kind of conduct toward all other men; especially, in primitive society, the recognition of one set of duties toward fellow-clansmen and of opposite duties toward strangers not of the blood-bond.—Psychophysical dualism, the metaphysical opinion that mind and matter are two different kinds of existents which are capable of acting upon each other.

dualistic, a. 3. In chem., pertaining to the dualistic system.—Dualistic notation a notation based upon a principle of duality.—Dualistic system,

duality, n.—The principle of duality, in geom.: (b)
The principle that in theorems of configuration and determination any element or component may be interchanged with an element or component of like determining

N. E. D. dub^1 , v. t. 4. (f) To make a fair show outside

dub-end (dub'end), n. The carved end of a cross or spring-bar of a carriage.
dubitant (dū'bi-tant), a. and n. [L. dubitans

(-ant-), ppr. of dubitare, doubt; see doubt.] I. a. Doubting; inclined to doubt: as, a shy, du-

A pipe, running along ducat, n.—Barbary ducat, an Arab gold coin current in the West Indies in the first half of the eighteenth cen-

ducatello (dö-kä-tel'ō), n. [It., dim. of ducato, ducat.] A silver coin of Venice.

duchesse (dü-shes'), n. [F.: see duchess.] type of sofa borrowed by the English by the English deposed of two arm-chairs placed face to face with a stool connecting them, all three being framed together.

duck1, v. I. intrans. 4. In bridge, to lead a suit from the dealer or the dummy hand, and make no attempt to win the trick third hand, even when able to do so. See underplay.

II. trans.—To duck up (naut.), to lift (the clue of the foresail or mainsail on a square-rigger), so that the view ahead of the vessel may not be shut out from the steering-wheel. On cutters carrying a loose-footed mainsail the tack (junction of the foot and luff) of the sail is lifted by a small permanent purchase called a tack-tackle when the lower part of the sail near the mast obstructs the helmsman's view ahead.

man's view ahead.

duck², n. 5. In cricket, no score; zero: short for duck's-egg (which see). [Slang.]—Aylesbury duck, a breed of ducks named from Aylesbury. England. They are large ducks, white with orange shanks, having a long, slender head and a pink beak.—Call duck, a duck of diminutive breed, raised for display rather than for the market: used originally for decoys, whence the name.—Field-lane duck, a local English name for a baked sheep's head.

duck-acorn (duk'ā'kôrn), n. The water-chinkapin, Nelumbo lutea.

duckbill, n. 4. Polyodon spathula, one of the ganoid fishes of the order Salachostomi. Two species are known, inhabiting fresh waters of the United States and China.

the United States and China.

takes part in a duet.

duck-boat (duk'bōt), n. A light, shallow-draft duetto, n. 2. A base coin of Lucca, equal to boat propelled by oars or a sail, and employed

straight in a plane.—Dual consciousness. See ducks (duks), n. pl. In bot., a name indis**consciousness.** species of Cypripedium except C. arietinum.

species of Cyproposition in Cypropositio duck-shover (duk'shuv'er), n. A cabman who dufoil, n. 2. In bot., the twayblade, Ophrys

duckweed, n. — Greater duckweed, Spirodela poly-rhiza, formerly included in the genus Lemna. Also called water-flaxseed. — Tropical duckweed, the water-lettuce, Pistia Stratiotes.

duckwheat (duk'hwēt), n. A local name for Fagopyrum Tataricum, the Tartarian buckwheat or India wheat. This species differs from the common buckwheat in having a grain with notched or wavy edges, a more slender habit of plant, smaller and hastate leaves, and greenish or yellowish flowers in smaller clusters.

duck-wing (duk'wing), n. Same as duck-wing

the system, developed chiefly by Berzelius, of representing chemical compounds as constituted of two parts, a positive and a negative, chemically and electrically complementary, that is, mutually opposed. Thus sodium sulphate was represented as composed, not of sodium sulphate was represented into positive and negative constituents. In some respects the theory is simillar to the modern one of electrolytic dissociation.

duality, n.—The principle of duality, in geom.: (b)
The principle that in theorems of configuration and determination any element or component may be interchanged with an element or component of like determining power in the universe under consideration, as straight for point or angle for sect in the plane.

dualize (dū'a-līz), v. t.; pret. and pp. dualized, ppr. dualizing. To make or regard as two. N. E. D.

dubl', v. t. 4. (f) To make a fair show outside or on the surface, as by placing the good wares in the upper part of a basket and the inferior beneath. [Prov., Eng.]

dub-end (dub'end), n. The carved end of a cross- or spring-bar of a carriage.

dubitant (dū'bi-tant), a. and n. [L. dubitans]

etc.] To draw: said of muscles which abduct, adduct, or circumduct a part, such as the leg

or the eve.

The eyes can never be pronounced innocent in any case until the ducting and verting power of each separate muscle has been determined.

Med. Record, Feb. 7, 1903, p. 210.

a. Doubting; inclined to doubt: as, a suy,
bitant creature. Bulwer.

II. n. One who doubts; a doubter.
dubl, a., n., v., and adv. A simplified spelling of doubled.
dublet, n. A simplified spelling of doublet.
Dubois's abscesses or disease. See *abscess.
ducat, n.—Barbary ducat, an Arab gold coin current in the West Indies in the first half of the eighteenth center of the world in the Arab seed to the supplies the supp It yields a fragrant gum-resin which is used by the natives like incense.

dudder-grass (dud'ér-gras), n. The fern Venus's hair, Adiantum Capillus-Veneris. See Venus's hair.

dudish (dū'dish), a. Like a dude; characteristic of a dude.

dudler (dud'ler), n. Same as *dudley. dudley (dud'li), n. [From the surname Dud-ley.] An engine for hauling logs which propels itself and drags its load by revolving a

large spool around which are several turns of a cable, fixed at each end of the track.

dudleyite (dud'li-īt), n. [Dudley(ville), in Alabama, + -ite².] A hydrous silicate allied to the vermiculites and derived from the alter-

ation of margarite. due-cento (dö'ā-chen'tō), n. [It., contraction for mille due cento, 1200.] The thirteenth cen-[It., contraction tury. In the history of Italian art the due-cento is characterized by a blending of romanesque and gothic influences, and by the proto-renaissance of Frederick II. (1215-1250), who showed peculiar appreciation of classic art. The chief master of the period is Niccola Pisano, the sculptor and architect (about 1207-1278).

dueling-pistol (dū'el-ing-pis'tol), n. A long-barreled pistol of fine workmanship, made especially for dueling.

duellant (dū-el'ant), n. [L. duellum, duel, + -ant.] A duelist.

The successful duellant had simply kept his guard and struck in the nick of time.

J. M. Hart, German Universities, p. 77.

duettist (dū-et'ist), n. [duet + -ist.] One who

two quattrini.
duff² (duf), v. i. In golf, to miss a stroke by

hitting the ground behind the ball.
duffadar (duf-a-där'), n. [Hind. Pers. daf'adär, an officer in command of a small body of men. $\langle daf'a$, a section, + $-d\bar{a}r$, suffix of agent.] A petty officer, such as a sergeant or corporal of irregular cavalry, a police officer, or the man in charge of a gang of laborers. [Anglo-Indian.l

We now composed a small party; besides our *Dufadar*, there remained Lassoo and Esau, twelve animals, and Ruby.

Geog. Jour. (R. G. S.), XIL 268.

form of Artocarpus communis, the chestnut-like seeds of which, called nangka, are roasted and eaten by the natives. The latex is used as bird-lime, as a sizing for whitewash, and as a medium for mixing paints. The soft yellow wood is used for cupboards and interior woodwork of houses, but will not stand exposure to the weather. See Artocarpus, breadfruit, *horednut, 2, and *antipolo.

Dugongidæ (dū-gong'gi-dē), *n. pl. [Dugong + -idæ.] A family of sirenian mammals, including the existing species of dugong and the

cluding the existing species of dugong and the extinct genus Prohalicore. J. E. Gray, 1821.



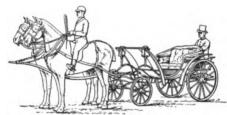
duguan (dö-gö-än'), n. [Tagalog duguan, < Tagalog and Bisaya dugó, blood.] In the Philippines, the name of several species of nutmeg, especially Myristica Philippiensis, a tree yieldalog and Bisaya any, pines, the name of several species of of several sp

duiker-bok (di'kėr-bok), n. [Cape D., < duiker, diver, + bok, buck.] A small South African antelope, Cephalophus grimmi. It is about 26 inches high and typically of a yellowish-brown color. The males have small, straight pointed horns; the females are homless. The name is extended to other antelopes of the same genus.

dukan (dö-kän'), n. [Aram., stage, platform.]
The stage in the Jewish temple upon which
the priests officiated, and the Levites stood

when singing the daily psalms.

duk-duk (dök'dök), n. [New Britain.] The rituals of a secret society of the natives of New Britain. In these rites large masks are used which are said to represent the cassowary. Ratzel (trans.), Hist. of Mankind, I. 133. duke¹, n. 6. A vehicle having a victoria body suspended at the front on scroll-irons. At the rear is a rumble for a footman. It is some-



A Duke, appointed Demi-daumont.

times driven by a postilion. Now called a ladies' driving-phaëton.—Grand-duke. See duke1, 4t. Duke bit. See *bit1.

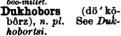
tadies' driving-phaeton.—

Duke bit. See *bit¹.

duke-phaeton (dūk'
fā"e-ton), n. A form of
the duke which is provided with a detachable driver's seat at the
front. See *duke¹, 6. dukhan (du'kan), n.
[Also dukn, duchn;

Ar. dukhn.] The pearl or negro millet, Pennisetum spicatum, a grass widely cultivated n warm countries for the sake of its seed and sometimes for fodder for cattle. The seeds are an important food-staple in many countries, but are not of such great economic importance as those of durra (Andropogon Sorghum). They are ground into meal, which in Africa is eaten in the form of mush, and in India, where it is the principal food-staple of the natives in many parts, in the form of bread or cakes, which are eaten together with buttermilk. In India called cumboo-millet.

Dukhobors (dö'kōthe sake of its seed and



Dukhan (Pennisetum spica-tum), about one half natural size. (Drawn from Engler and Prantl's "Pfianzenfamilien.")

hobortsi.

dulcamaretin (dul-ka-mar'ē-tin), n. [dulcamaretin (dul-ka-mar'ē-tin), n. See *dolcan, 2. dulcamarin.

dulcam (dul-ka-mar'ē-tin), n. See *dolcan, 2. dulcamarin.

dulcamaretin (dul-ka-mar'ē-tin), n. See *dolcan, 2. dulcamarin.

dulcamaretin (dul-ka-mar'ē-tin), n. [dulca-sound (dum'sound), v. t. To deaden the sound of or proceeding from: as, to dumb-sound (dum'sound), v. t. To deaden the sound of or proceeding from: as, to dumb-sound an iron bridge. N. E. D.

dulcamaretin (dul-ka-mar'ē-tin), n. [dulca-sound (dum'sound), v. t. To deaden the sound of or proceeding from: as, to dumb-sound an iron bridge. N. E. D.

*telescope.

dumb-watches (dum'woch'ez), n. The pitcherplant, Sarracenia purpurea, also the trumpet-leaf, S. flava, in allusion to the convex circular expansion at the summit of the style, resembling a watch.

Dumdum brillat fewer. Called to take the weight of the rudder.

dumb-sound (dum'sound), v. t. To deaden the sound of or proceeding from: as, to dumb-sound (dum'sound), v. t. To deaden the sound of or proceeding from: as, to dumb-sound (dum'sound), v. t. To deaden the sound of or proceeding from: as, to dumb-sound (dum'sound), v. t. To deaden the sound of or proceeding from: as, to dumb-sound (dum'sound), v. t. To deaden the sound of or proceeding from: as, to dumb-sound (dum'sound), v. t. To deaden the sound of or proceeding from: as, to dumb-sound (dum'sound), v. t. To deaden the sound of or proceeding from: as, to dumb-sound (dum'sound), v. t. To deaden the sound of or proceeding from: as, to dumb-sound (dum'sound), v. t. To deaden the sound of or proceeding from: as, to dumb-sound (dum'sound), v. t. To deaden the sound of or proceeding from: as, to dumb-sound (dum'sound), v. t. To deaden the sound of or proceeding from: as, to dumb-sound (dum'sound), v. t. To deaden the of that name; < L. dulcis, sweet.] A sweetheart: a mistress.

dulcitanide (dul-sit'a-nid), n. [dulcitan + -ide1.] The general name employed in chemistry for compounds of acids and dulcitan: as, benzodulcitanide.

Dulidæ (dū'li-dē), n. pl. [NL., < Dulus + S.-26

idæ.] A family of passerine birds related to the shrikes, found in tropical America.
dull-witted (dul'wit'ed), a. Stupid; having

Dahl is mistaken in supposing that L. bismarckensis is a dulotic ant, as a perusal of the above quoted passages from Wroughton's work will suffice to show.

Biol. Bulletin, May, 1904, p. 257.

dum, a. and v. A simplified spelling of dumb. duma (do'ma), n. [Also douma (< F. douma); Kuss. duma, a council, a court, a chapter (of an order), also thought, idea, elegy, = OBulg. Bulg. duma, council, = Bohem. duma, thought, Bulg. duma, council, = Bohem. duma, thought, reflection, = Pol. duma, thought, idea, reflection, opinion, elegy (see *dumka) = Little Russ. duma, thought, = White Russ. duma, pride, arrogance, = Lith. duma, opinion, = Lett. pa-doms, council; of Teutonic origin, < Goth. doms = OHG. tuom = AS. dom, E. doom, judgment: see $doom^1$, n.] In Russia, a council; an official assembly; specifically, an elective legislative assembly or council in Russia, established by ukase of Nicholas II. in 1905.

The Doumas of nearly all the principal cities have addressed the throne praying that the representatives of the people be summoned at once.

N. Y. Times, June 9, 1905.

In this [plans for a National Assembly] he [the Czar] has been influenced by the men who instituted the recent Congress at Moscow, of delegates from the zemstvos and dumas, or district and municipal councils.

Outlook, Aug. 12, 1906, p. 892.

The Czar, on March 3, issued a rescript addressed to the Minister of the Interior directing him to prepare plans for the assembling of representatives of the people.

. . [The plan] was received with derision by the zemstvoists and dumaists at their Congress in July.

Outlook, Aug. 12, 1905, p. 892.

dumaree, n. See \neq dumree. dumasin (dū'ma-sin), n. [Dumas, a French chemist, + $-in^2$.] An oily ketonic compound, $C_6H_{10}O$, prepared by passing the vapors of acetic acid or acetone through a red-hot tube.

It has a spicy odor and boils at 120-125° C.

Dumas's method. See *method.

Dumb jockey, peal, tooling. See *jockey,

*peal¹, blind tooling (under tooling).

dumb-barge (dum' bärj), n. See *barge¹.

dumb-bell, n. 2. In bacteriol., a diplococcus:

so called from its shape.—Dumb-bell crystals.

See *crystat.

dumb-card (dum'kard), n. See *card¹.

dumbcow (dum'kou), v. t. To browbeat into silence or submissiveness; cow. R. Kipling.

[Anglo-Indian.]

dumb-drift (dum'drift), n. An airway for con-

*dumb-drift. dumb-iron (dum'i'ern), n. In carriages, an iron shaped like the half of an elliptic spring attached to a half-elliptic and with it presenting the appearance of a full elliptic. It is sometimes covered with wood and richly carved.

dumb-pintle (dum'pin'tl), n. A rudder-pintle whose lower end rests on a disk in a socketbrace designed to take the weight of the rudder.

dumby, n. See *dummy, 5 (d).

Dumdum bullet, fever. See *bullet, *fever¹.

dumka (döm'kä), n. [Pol. dumka, dim. of duma, thought, elegy: see *duma.] A Polish lament or threnody, or a piece of music in a

melancholy style.

dummele (dum'e-lē), n. [Cingalese *] A tar
prepared from the wood of the bastard sandal-

wood, Erythroxylum monogynum, a shrub or small tree of southern India and Ceylon. It is used as a preservative of native boats. Erythroxylûm.

dumminess, n. 2. Specifically, an abnormal mental condition of the horse, following acute inflammation of the brain, in which the various senses are dulled and the animal takes no notice of its surroundings. There is also a notice of its surroundings. There is also a peculiar alteration in the method of taking in

the food. U. S. Dept. Agr., Rep. on Diseases of the Horse, 1903, p. 11. dummy, n. 3. (e) Proofs of pages of com-posed type pasted down upon a larger leaf in posed type pasted down upon a larger leaf in proper order, to show the general arrangement of an intended book or pamphlet.—5. (c) The dealer's partner at bridge. (d) In the game of rounce, an extra hand of 6 cards in the center of the table. Amer. Hoyle, p. 322.—6. A person who is put forward (by interested parties in the background) in some capacity in connection with a matter in which he has no real concern or as to which he is the mere tool of his movers: for example, (a) as an incorporator or a director of a bank, a railway, or other company, in order to satisfy some statutory requirement as to number, place of residence, or the like, or as (b) in Australia, when the public lands were thrown open, one who made application for an allotment in his own name, but really on behalf of another who had already made his own 'selection.'—7. A horse affected with dumminess, which follows an acute inflammation of the brain. See *dumminess, 2.

The duration of the disease varies from a few hours to a week, the average being perhaps 72 hours. Horses which recover are said to become "dummies"—animals with a permanent cerebral lesion and defective intelligence.

Jour. Exper. Med., VI. 66.

dumaist (dö'mä-ist), n. [duma + -ist.] A dummy (dum'i), v. i. To act as a dummy. See *dummy, 6.

The Czar, on March 3, issued a rescript addressed to the Minister of the Interior directing him to prepare plans for the assembling of representatives of the people.

... [The plan] was received with derision by the zemstvoists and dumaists at their Congress in July.

Outlook, Aug. 12, 1905, p. 892.

dummy-weed (dum'i-wēd), n. The coltsfoot, Tussilago Farfara.

dump², v. t. 5. To press closely; subject to severe pressure, as bales of wool. [Australia.]

severe pressure, as bales of wool. [Australia.] dump-car, n.—Air dump-car, a gondola-car of which the body can be tilted up to discharge the load. It is operated by compressed air. See *gravel-car. dumper, n. 2. In railroading, any form of tilting-, dumping-, or unloading-car, whether operated by hand or by power. dump-grate (dump'grāt), n. A furnace- or boiler-grate which can be tilted or tipped up so as to drop or dump its load of ash and einder; a dumping-grate or tip-grate.

dump-hook (dump'hok), n. A levered chain grab-hook attached to the evener, to which a team is hitched in loading logs. A movement of the lever releases the hook from the loggingchain without stopping the team.

veying foul air and dangerous gases to the upcast shaft of a mine, past, but not through, the ventilating-furnace, to avoid explosions. dumb-furnace (dum'fer'nās), n. Same as dumb-furnace (dum'fer'nās), n. Same as book, VI. 880.

dumping-car, n. Any railroad-car which is used to carry loose material in bulk and which,



Dumping-car for Industrial Railroad.

a, car tilted up for convenience in loading; b, car loaded and locked for transport; c, car released and upset, discharging coal.

through its construction or fittings, can be through its construction or fittings, can be made to discharge its load. The most simple form has a balance square, cup-, or V-shaped body, so supported that it can be tilted up to discharge the load at the side of the track. In another type the body is hinged to a turniable on the truck and can be swung around and tilted in any direction. Another simple form has a tilting-floor and fixed ends, or a fixed sloping floor and hinged sides, or two floors joined together and sloping outward, with hinged sides. In this type the car-body is fixed and the load is dumped by releasing the hinged sides. In this sense the hopper-car, having sloping floors for the automatic discharge of the load through the hopper; is a dump-car. The largest and most complicated type consists of an under-frame supporting two hinged and inclined floors which meet in the middle and, when closed, sustain the toad in a V-shaped trough. When the load is to be discharged, one section of one floor may be opened and the load dumped between the rails, or, by means of deflecting plates and a fixed apron on the side of the car, it may be dumped at the side of the track. Two sections may be opened and the load discharged on both sides or on one side. The dumping apparatus may be operated by hand or by compressed air (obtained from the air-brake system), either when the train is at rest or when it is in motion, and in any direction, one car at a time or all the cars of the train at the same instant.

Support of two or three loads of two or three loads of the train at the same instant.

dumpling, n. 3. Any one of two or three species of dwarf, stemless, succulent evergreen plants belonging to the genus Mesembryanthemum, especially M. minimum, called the small dumpling, a plant only half an inch high, and M. obcordellum, called the greater dumpling, which is about an inch higher.—Blue dumplings, a favorite dish among the Creek Indians, consisting of two cups of corn meal, half a teaspoonful of baking-powder, and a little butter, made into small balls which are dropped into boiling water and cooked for five minutes. Sci. into bolling water and cooked for five minutes. Amer. Sup., May 7, 1904, p. 23703.

dump-moraine (dump'mō-rān'), n. A moraine formed of material dropped from a glacier.

dumpoke (dum'pōk), n. [A back-formation from dumpoked.] A stuffed duck; in general, any baked dish. [Anglo-Indian.] dumpoked (dum'pōkt), a. [Hind. dampukht,

cooking in steam, simmering, \(\) dam, air, breath, steam, + pukht, cooked.] Boiled, as a fowl, with butter and spices; now, baked, as a

fowl. [Anglo-Indian.]
dump-skip (dump'skip), n. A bucket for hoist-

dump-skip (dump skip), n. A bucket or host-ing coal or ore, so constructed as to overturn or open when its contents are to be dumped. dumree (dum'rē), n. [Also dumrie, dumaree; \(\lambda\) Hind. damri.] A copper coin formerly in use in Central India, of very slight value. Yule and Burnell.

dumus (dū mus), n.; pl. dumi (-mi). [L., a bush, OL. dusmus, prob. connected with densus, thick: see dense.] A bush or low-branching

dun¹. I. a.—Dun hackle, land, limestone, skippe See *hackle3, *land¹, Redesdale *limestone, *skipper¹ II. n. 2. A dun-colored natural or artificial fly used in angling: as, the pale-olive dun, made with a body of hair from the polar bear; goose-dun, with a body of gray goose-pinion; blue dun, with a body of pale mole-fur.

dunal (du'nal), a. [dune + -all.] Of or pertain-

ins to dunes.

I t Lake of the Woods there is no evidence that the Isle ax Sables is tenanted by both dunal and predunal types of plants.

C. MacMillan, Minn. Bot. Studies, Bulletin IX. p. 988.

dun-bar (dun'băr), n. A British collector's name for a dun-colored moth (Cosmia trapezina) having two bars or transverse lines on the fore

wings. N. E. D.

Duncanella (dung-ka-nel'ä), n. [NL., < Duncan, proper name, + -ella.] A genus of extinct tetracorals of the family Cyathaxoniidæ, including very simple conical cups with regular septa and no tabulæ or dissepiments. It is of

Silurian age.

ounch¹ (dunch), n. [dunch¹, v.] A jog with the elbow; a nudge; a 'dig in the ribs.' [Scotch]

the elbow; a nudge; a 'dig in the ribs.' [Scotch and prov. Eng.]
dunch², a. 2. Dull; stupid; slow of understanding.—3. Heavy, as bread; stodgy. [Prov. Eng. in both senses.]
H. n. 1. A stodgy pudding, made of flour, currants, and water. [Prov. Eng.]—2. Improperly baked bread. [Newfoundland.]
dune¹, n.—Active dune, a sand-dune in the wandering or shifting state. Parallel Andrew of the property of the property

An ecclesiastical abbreviation of Dunelm. the Latin Dunelmensis, 'of Durham.'

dun-fly, n. See *dun, n., 2.

Dung substitute. Same as *dunging-salt.

dunga-runga (dung gä-rung gä), n. [Aboriginal name in New South Wales.] A small tree of crooked growth, Notelæa orata, yielding close-grained, hard wood, used for tool-han-See Notelæa.

dung-beetle, n.—Indian dung-beetle, an East Indian scarabæid beetle, called by Kirby and Spence Copris midas.

dunging-salt (dung'ing-salt), n. A tradename for sodium phosphate or arseniate when used in calico-printing as a more cleanly substitute for cow-dung in the bath in which, to remove superfluous mordant, the cloth is immersed after printing and before dyeing. Also called dung substitute.

dungon (dung-ōn'), n. See *dongon.
dungstead (dung'sted), n. A dung-heap; a
place where manure is piled; a midden. See *dongon

The general conclusion arrived at, and clearly expressed by Pfeifier, is that excessive loss in manure can be best avoided by storing it in a deep mass in a water-tight dungstead placed in a well-shaded situation, in which the material is firmly compressed.

Nature, Sept. 15, 1904, p. 491.

dung-worm (dung'werm), n. A worm or larva found in cow-dung, used as bait. Dunkard series. See *series.

Dunker1, n.— Seventh-day Dunkers, a division of the Dunkers organized in Pennsylvania in 1728 by Conrad Beissel. The society, now almost extinct, was monastic in character, advocated cellbacy for its members, and ob-served the Sabbath on the seventh day: whence its name. dunkirk (dun'kerk), n. A privateer vessel from Dunkirk in the seventeenth century.

dunkirker (dun'kerk-er), n. 1. Same as *dun--2. One of the crew of a dunkirk.

kirk.—2. One of the crew of a dunkirk.

dunk-tree (dungk'tre), n. The jujube, Zizyphus
Jujuba. See Zizyphus. [West Indian.]

dunner² (dun'er), v. i. [Var. of "dinner, collateral form of dinnle, dindle; imitative.] To vibrate with a reverberating sound; make a thundering, reverberating sound; make a thundering, reverberating noise. [Scotch.] dunner² (dun'er), n. [dunner², v.] A hollow reverberating sound, as if made by heavy blows from the closed fist on a door; a thun-

dering sound. [Scotch.]

dunnite (dun'it), n. [Dunn, a proper name, + -ite².] Same as *explosive D.

dunstone (dun'stōn), n. [dun¹ + stone.] In petrog., stone of a dun or dull brown color, sometimes sedimentary, as dolomite or sandstone; occasionally, an altered dolerite. [Local Fra law.]

dunting (dun'ting), n. Knocking; hitting; dinting; in ceram., the cracking of ware entirely through, while it is being fired in the kiln. duny (dū'ni), a. [dune + -y¹.] Having numerous sand-dunes.

duodecagon (dū-ō-dek'a-gon), n. [Gr. δνώδεκα, twelve, + γωνία, angle.] Same as dodecagon. duodecane (dū-ō-dek'ān), n. [Gr. δνώδεκα, twelve, + -ane.] Same as *dodecane. duodenary, a. 2. In music, pertaining to a duodene, or consisting of duodenes.

II. n. A musical instrument for acoustical research, played from a keyboard laid out in duodenes

duodenate (dū'ō-dē-nāt), v. i.; pret. and pp. duodenated, ppr. duodenating. [duodene + -ate².] In music, to modulate by duodenes.

duodenation (du-o-de-na'shon), n. [duodenate + ion.] In music, the act, process, or result of modulating by duodenes.

duodenocholecystostomy ($d\bar{u}$ - $\bar{\phi}$ - $d\bar{e}'$ n $\bar{\phi}$ -kol $'\bar{\phi}$ -sis-tos't $\bar{\phi}$ -mi), n. [NL. $duodenum + Gr. \chi o \lambda \eta$, bile, $+\kappa i\sigma \tau \omega$, bag, bladder, $+\sigma \tau \phi \mu a$, mouth.] In surg., an operation for making an artificial opening between the gall-bladder and the duodenocholecystomy. denum.

duodenohepatic (dū-ō-dē'nō-hē-pat'ik), [duodenum + hepatic.] Relating to both the duodenum and the liver. Buck, Med. Handbook, I. 654.

duodenotomy (dū-ō-dō-not'ō-mi), n. [duode-num + Gr. -τομία, ⟨ταμεῖν, cut.] In surg., an operation for making an opening into the duodenum.

duogravure (dū'ō-grā-vūr'), n. [F. *duogra-vure, irreg. < L. duo, two, + gravure, engrav-ing.] A method of photo-engraving which requires two plates for the production of a print in one color. N. Y. Times, Jan. 1, 1904. duole (dū'ōl), n. [L. duo, two, + dim. -ole, L. -olus.] In music, a group of two notes to be performed in the time normally occupied hy three.

duoparental (dū'ō-pā-ren'tal), a. [L. duo, two, + parens, parent.] Of or from two parents or sexual elements; bisexual; amphigonic.

The conclusion that chromatin was the true hereditary-substance could only be deduced with convincing clear-ness after duo-parental . . . reproduction had been studied.

Nat. Sci., Nov., 1896, p. 312.

duotal (dū'ō-tal), n. The trade name of gusiacol carbonate, a white odorless and tasteless crystalline compound, (C₆H₄O.CH₃O)₂CO, obtained by the action of phosgen on

guaiacol-sodium. It is decomposed in the intesting into guaiacol and carbonic acid, and is used as an intestinal antiseptic and in tuberculosis. It is official in the U. S. Pharmacopeia under the name guaiacolis carbona.

dup² (dup), n. [D. dop, a shell, husk.] A trough used in South Africa for sheep-washing. Dupin's cyclide. Same as cyclide.

duplex, a.—Cox duplex press. See *press1.—Du-plex lock, paper, pump. See *lock1, *paper, *pumpl. —Duplex rail. Same as compound rail (which see, un-

duplexity (du-plek'si-ti), n. Same as duplic-

duplicand (du-pli-kand'), n. [L. duplicandus. fut. pass. part. of duplicare, double.] In Scots law, a double feuduty due to a superior upon entry into possession by an heir, or at certain specified times.

duplicate, v. i. 2. In whist and bridge, to play the same cards over again, as nearly as possible under the same conditions, each side getting the hands originally held by its opponents. duplicate. I. a. 4. In bot., folded.—Duplicate whist board. See *board.

II. n.—Memory duplicate, in whist, a game in which the hands are preserved and played over again by which the hands are preserved and the same players at the same table.

duplicator (du'pli-kā-tor), n. 1. One who duplicates anything; one who makes duplicates.—2. A machine or other contrivance for making duplicates, as of a writing or drawing or the like.

duplicident (du'plis'i-dent), a. [L. dupler (duplic-), double, + dens (dent-), tooth.] Same as duplicidentate.

duplicipennate (du/pli-si-pen'āt), a. [L. du-plex (duplic-), double, + penna, wing: see pennate.] In entom., having the wings folded longitudinally in repose, as the moths. [Rare.] duplicispinate (du^vpli-si-spi'nāt), a. [L. duplex (duplic-), double, + spina, spine: see spinate.] Bearing double or duplex spines. duplicity, n. 4. In biol., the division of a part of the body of an organism, such as a limb or a distribution.

digit, into two equivalent parts which may be regarded as equivalent to normal single members. W. Bateson, Study of Variation, p. 406.

Axial duplicity, the presence in a bilateral animal of a pair of organs or parts in place of one which is normally single and median, as the presence of two tails in some breeds of goldfishes, or of two heads in monsters.

durative (dūr'a-tiv), a. [NL. *durativus, < L. durare, continue: see dure, v.] In philol., that expresses or serves to express continued or continuing action: as, to 'sit' and to 'strike' are durative verbs, while to 'strike down' and to sit down' are perfective verbs and express completed action.

durbachite (dùr'bach-it), n. [Durbach, in Baden, Germany, + -ite².] In petrog., a variety of syenite rich in mica which occurs as a basic facies of granite, and also as independent

bodies.

Durchmusterung (dörch-mös'te-röng), n. [G., durchmustern, inspect closely, review, scrutinize, durch, through, + mustern, inspect, muster: see muster, v.] A German name given to certain extensive catalogues of stars which to certain extensive catalogues of stars which give their magnitudes and their approximate positions sufficiently for identification. The oldest and best-known is Argelander's Durchmusterung of the Northern Heavens, containing about 324,000 stars. It was made at Bonn, and is usually referred to by the initials B. D. M. His successor, Schönfeld, extended the work to stars south of the equator, in the Southern Durchmusterung (S. D. M.). A third is the Cordova Durchmusterung (Cord. D.), extending Schönfeld's work to the south pole. The three contain all the stars easily observable with a telescope of three inches aperture down to the ninth magnitude, and many between magnitudes 9 and 91. There is also the Cape (of Good Hope) Photographic Durchmusterung (C. P. D. M.), covering nearly the whole of the southern hemisphere.

durdenite (der'den-it), n. lurdenite (der'den-it), n. [Named for H. S. Durden of San Francisco.] A hydrous ferric tellurite occurring in greenish-yellow small mammillary forms: found with native tellurium in Honduras.

lurene (dū'rēn), n. [† L. durare, last, + -ene.] A colorless compound found in coal-tar oil and durene (dū'rēn), n. prepared by the action of methyl chlorid on toluene in the presence of aluminium chlorid; 1, 2, 4, 5-tetramethyl benzene. It has an odor resembling that of camphor, crystallizes in leaves, melts at 79-80° C., and boils at 193-

durenol (du'rē-nōl), n. [durene + -ol.] A colorless compound prepared by fusing durene-sulphonic acid with potassium hydroxid; 1, 2, 4, 5-tetramethyl phenol. It crystallizes in large flat prisms, melts at 117° C., boils at 249-250° C., and is volatile with steam. durezza (dö-ret'zz), n. [It., < L. duritia, hard-dust-fall (dust'fâl), n. The settling of dust ness, < durus, hard.] In music, harshness of from the atmosphere. tone or expression.

durgah (dur-ga'), n. [Also durgaw; < Hind. dargāh, < Pers. dargāh, threshold, door, place, court, mosque, shrine; < dar, door, + gāh, place.] In India, the shrine of a Mohammedan saint.

dan saint.
duridine (dū'ri-din), n. [L. durare, last, +
-id + -ine².] A colorless compound prepared
by heating xylidene with methyl alcohol. It
melts at 14° C. and boils at 252-253° C.
durote (dö-rō'tā), n. [Sp. duro, hard.] In
Venezuela, a large, leguminous tree of Guiana
and Venezuela, Bocoa Provacensis, which
wields the heac-wood. See heac-wood.

yields the boco-wood. See boco-wood. durrin (dur'in), n. [durra + -in².] A glucoside, HOC₆H₄CH(CN)OC₆H₁₁O₅, present in Egyptian durra. It crystallizes in brilliant leaflets.

durylic (dū-ril'ik), a. [dur(ene) + -yl + -ic.]
Derived from durene.—Durylic acid. Same as cu-

duscle (dus'kl), n. [Appar. an artificial formation from dusk.] The black nightshade, Solanum nigrum.

dusky-wing (dus'ki-wing), n. Any butterfly of the genus Thanaos; so called on account of its dark color.—Dreamy dusky-wing, an American hesperiid butterfly, Thanaos icelus, occurring in nearly all parts of the United States. Its larve feed on the aspen.—Juvenal's dusky-wing, an American hesperiid butterfly, Thanaos inventis, an American hesperiid butterfly, Thanaos invendits, occurring throughout the eastern United States. Its larve feed on the cak.—Lucilius's dusky-wing, an American hesperiid butterfly, Thanaos invention of the courring throughout the Atlantic United States. Its larve feed on wild columbine and on pigweed.—Martial's dusky-wing, an American hesperiid butterfly, Thanaos martialis, occurring throughout the Atlantic United States and westward to Colorado.—Persius's dusky-wing, an American hesperiid butterfly, Thanaos persius, of wide distribution in the United States. Its larve feed on the willow and poplar.—Sleepy dusky-wing, an American hesperiid butterfly, Thanaos brizo, occurring throughout most of the United States except the far Northwest.

duss (dus), n. [E. Indian.] A shrubby labiate on lant. Sussadia consolidation.

duss (dus), n. [E. Indian.] A shrubby labiate plant, Sussodia oppositifolia, indigenous to plant, Sussodia oppositifolia, indigenous to the Himalaya Mountains. It has opposite or ternate leaves, and aplkes of minute white flowers with feathery calyx-teeth. The leaves are covered with downy wool, which is used to remove insect larves from old sores; they are also applied to wounds and bruises. The wood is moderately hard and close-grained and is used for making gunpowder charcoal.

dust¹, n. 11. In bot., pollen. Blair. 12. Flour. [Slang, Australia.]— Dust-particles of Müller. See *homoconium.—Dust process, in ceram., a method of making buttons, tiles, etc., by pressing dampened claydust in molds.

dust in moids.

dust-bar (dust'bar), n. In cotton manuf., one
of the parallel bars in a grid for the escape of
dust and extraneous matter in cotton, in the

dust-cage (dust'kāj), n. In a cotton-scutching machine, a drum or cylinder with a perforated surface, against which the cotton is blown and from which it is taken in the form of a fleece

or sheet. By means of a draft-fan and conduits attached to the ends of the cylinder the dust is removed from the cotton through the perforations.

dust-collector (dust'ko-lek'tor), n. In milling, a machine for removing and collecting the dust from purifiers and other milling-machines. It consists of a large number of cloth cylinders, placed radially, through which the dust-laden air is blown, the air escaping through the cloth and leaving the dust in the cylinders to be removed as fast as it collects.

dust-counter (dust'koun'ter), n. An instru-ment for counting the number of particles of ment for counting the number of particles of dust in a unit volume of air. It is made in several forms, but in each a small volume of air is suddenly expanded so that it cools to the dew-point, and the moisture condensing on the dust-nuclei brings them down to rest on the surface of a glass mirror, where they may be counted. The air along the French and Italian Riviera, for example, contains sometimes many thousands of dust-particles per cubic centimeter, the purest observed having 750. On the Rigi Kulm the lowest number observed is 210. In the western Highlands of Scotland the lowest number is 18.

dustee (dus-té'), n. [Varied from fusice?] The offspring of a fusice and a white. [West Indies.] duster, n. 6. An apparatus or device, usually employing a current of air, for removing dust or fine particles from any material, such as

employing a current of air, for removing dust or fine particles from any material, such as grain, ore, rags, and the like.—7. A light wool or linen blanket, embroidered or plain, used as a cover for the lap, in driving, to protect the clothing from dust.—8. A test-well which fails to reach water; a dry hole. [U. S.]

Great assistance would have been given in the location of this line of complete saturation had the unsuccessful test wells of the past been divided into two classes, as salt water wells and dusters, instead of calling them all dry holes, as has generally been done.

Contrib. to Econ. Geol., U. S. Geol. Surv., 1902, p. 388. Dutchman's-breeches, n. 2. The streaks of

dust-feather (dust'fe\(\text{fer}\), n. See feather.
dust-figure (dust'fig'\text{ur}), n. A regular figure formed on the surface of a body by the deposition of dust. The dust adheres to certain parts of the surface, sometimes by osmosis, sometimes by electric attraction, sometimes by a special physical or chemical affinity between special kinds of dust and special parts of the solid surface.

dust-flow (dust'flo), n. A stream or land-slide of water-saturated volcanic ashes.

Few days, however, pass without clouds of steam rising from the crater, accompanied from time to time by dust-flows down the gorge to the Rivière Blanche to the southwest or across the basin of the Lac des Palmistes to the east.

E. O. Hovey, in Science, July 1, 1904, p. 24.

rom the crater, accompanied from time to time by dust.

**Theoretic of the Rivière Blanche to the southwest or across the basin of the Lac des Palmistes to the east.

**E.O. Hovey, in Science, July 1, 1904, p. 24.

**Iust-fog (dust'fog), n. 1. A whitish fog formed of vapor-dust or the finest kind of mist, differing from the dust-haze which frequently follows volcanic eruptions and is formed of fine dust-particles or nuclei upon which vapor has begun to condense.

Cold winds from the northesst accompanied by dust.

**Theorem Theorem dust-fog (dust'fog), n. 1. A whitish fog formed of vapor-dust or the finest kind of mist, differ-

begun to condense.

Cold winds from the north-east, accompanied by dustfogs, began only in December, and then the cold reached
11 Fahr., and even 5 Fahr. at night.

Geog. Jour. (R. G. S.), IX. 549.

dust-haze (dust'hāz), n. See haze!.

dusting (dus'ting), n. 1. The act of casting
dust or powder upon anything; specifically, in
ceram., sprinkling over the damp, unburned
clay, through a canvas bag, powdered lead or
galena, which in the kiln will fuse into a glaze.
This method of lead-glazing was employed in
England for common red pottery. See leadglaze and *plumbiferous, 2.—2. The act of
brushing the dust from a surface, as of a table, brushing the dust from a surface, as of a table,

chair, floor, etc.

dust-plate (dust'plāt), n. A plate placed in
front of the cinder-outlet of an iron blastfurnace, which usually serves also to support the slag-runner, so that the workmen may be pro-tected from dust and solid particles which may be blown through the cinder-opening by the

dust-pressed (dust'prest), p. a. See Prosser's

*process.
dust-proof (dust'proff), a. Proof against dust; capable of excluding dust.
dust-shower (dust'shou'er), n. A cloud of dust which, having been caught up into the upper atmosphere by a violent wind in one place, is blown, it may be, long distances, and precipitated with or without rain or snow. See also *sea-dust.
dust-trunk (dust 'trungk), n. A conduit through which cotton is blown (in the early processes of manufacture) and the dust

processes of manufacture) and the dust knocked out by the cotton striking against

dust-wind (dust'wind), n. A wind that brings dust-storms, such as the northwesterly gales on the eastern coast of Australia. Geog. Jour.

on the eastern coast of Australia. Geog. Jour. (R. G. S.), XVIII. 91.

dust-wisp (dust'wisp), n. A delicate spray or stria of dust or ice-spiculæ floating in the sky among the sunrise and sunset colors; usually of a steely-white tint and hence high up in the atmosphere.

This was of an unmistakably volcanic character, different from anything that has appeared here since the Krakatoa sunsets, though not equal to those in splendour. Since that maximum, the colouring has been gradually lessening. Yesterday and to-day it was remarkably weak, the chief feature being the dust-wisps, which were more conspicuous than I have previously seen them during this apparition.

Nature, Dec. 25, 1902, p. 174.

dusty, a. 4. In bot., covered with granulations simulating dust. Also farinose. dusty-husband (dus' ti-huz' band), n. The

dusty-miller, n. 3. Same as miller, 3. dusty-wing (dus'ti-wing), n. Any member of the neuropterous family Coniopterygidæ: so named from the fact that the wings are covered with a white powder.

with a white powder.

Dutch. I. a.—Dutch consolation, door, kiln, roof, sauce. See *consolation, etc.—Dutch treat, yellow. See treat, *nellow.

II. n.—Double Dutch. (a) Unintelligible gibberish. (b) A form of the child's game of jumping the rope in which two ropes are used.

dutch, v. t.—To dutch it, in euchre, to name a different color when the trump is turned down.

Dutchman, n. 3. [l. c.] A layer of suet fastened with skewers into a roast of lean beef or mutton —4 [l. c.] In lumbering, a short stick mutton.—4. [l. c.] In lumbering, a short stick placed transversely between the outer logs of

blue sky seen between the alto-stratus clouds after a storm begins to abate.

after a storm begins to abate.

duty, n.—Duty of water, in irrigation, the relation which the quantity of water applied bears to the area irrigated. For example, one cubic foot of water per second flowing throughout the irrigating season should irrigate 100 acres. Under a high duty of water 160 or more acres may be irrigated; under a low duty 60 acres or less may be watered. Or, in other units, two and a half acrefect of water held in a reservoir should be ample to furnish water for one acre; or under a high duty one acrefoot of water may irrigate half an acre or more.—Export duty, a sum of money levied by a government upon the exportation of goods. Such duties are unconstitutional in the United States.—Probate duty. See probate-duty.

Suraeru.

Dwarf male. See *male1.

dwarf-ear (dwarf'er), n. An ear-snail; a gastropod belonging to the family Otinidæ, having an auriform shell.

dwarfism (dwarf'izm), n. [dwarf + -ism.]
The state of being a dwarf or dwarfed; dwarfishness.

Some predisposition to deformity is noted in funnel-breast, hallux valgus and dwarfism.

Phil. Med. Jour., Jan. 81, 1903, p. 215.

dway-berry (dwa'ber'i), n. [A reduction of "dwale-berry.] Same as dwale, 3.
dwel, v. and n. A simplified spelling of dwell.
dwell, n. 2. An automatic pause in the action of one part of a machine to enable another part to complete its work; specifically, in a sheet-metal drawing-press, a pause in the motion of one die to enable another to continue its work or a rouse in the motion of the two its work, or a pause in the motion of the two dies to enhance the effect of their combined dies to enhance the effect of their combined pressure. It is also utilized to enable one die to serve as a binding-clamp, holding the blank firmly, while another die draws it into the required shape. A dwell can be produced by the use of a cam or by the omission of some of the teeth of a gear.

dyad. I. n. 5. A group or association of two chromosomes in certain cells, such as the germ-cells in certain stages.—6. In pros., a group of two lines having different rhythms.

Dyads and triads there are in Pindar, but they do not disturb the rhythmical working of the odes.

B. L. Gildersleeve, Pindar, p. liii. N. E. D.

II. a. 2. Noting an axis of twofold symmetry. See *symmetry. dyadics (di-ad'iks), n. That branch of pure math-

ematics which supposes no other regular re-lation between the principal objects of its study than those which are concerned with the assumption that there are two alternative ways in sumption that there are two alternative ways in one or other, but not both, of which each of those objects is determined. For example, if the algebra of necessary reasoning, which is wholly concerned with the dyadic distinction between what is true and what is false, taking no account of greater or less probabilities, be considered in its pure mathematical relations, regardless of its application to logic, the simple mathematical theory that will so result belongs to dyadica.

dyakis-dodecahedral (di'a-kis-dō'dek-a-hō'-dral), a. Of or pertaining to a dyakis-dodecahedron or diploid; diploidal.

dyakis-dodecahedron, n. 2. A solid of twenty-four faces, somewhat resembling the deltoidal

icositetrahedron.

icositetrahedron.

dyakis-hexacontahedron (di"a-kis-hek"sakon-ta-he'dron), n. [Gr. ἀνάκις, twice, + Ε.

hexacontahedron.] A solid of 120 faces, reciprocal to the great rhombicosidodecahedron.

Dyaus (dya"us), n. [Skt. dyāus (stem dyo),
gen. divds (dyos): see Zeus and Jupiter.] In

Hindu myth., the god of the sky, answering to
the Greek Zeus and the Roman Jupiter in their
simpler aspects simpler aspects.

simpler aspects.

dye, n.—Basic dye, (a) Same as *basic stain. (b) See basic *color.—Neutral dye, a dye which results through the interaction between a basic and an acid dye, whereby the acid and basic affinities of the two become mutually saturated: as, for example, the cosinate of methylene-blue.—Oxyazo dyes, a class of artificial coal-tar colors which includes Soudan brown, crocein orange, and others.—Paste dye, a coloring material prepared for dyers use in the condition of a semi-liquid pasty mass. Artificial alizarin and indigo are among the dyestuffs supplied in this form.—Triphenyimethane dyes, an important class of artificial dyestuffs, of which magenta or fuchsin and Hofmann's violet are prominent examples; made from materials originally derived from coal-tar, and very extensively used in dyeing, especially on wool and silk.

dye-beck, n.—Spiral dye-beck, a kind of dye-vat with

dye-beck, n.— Spiral dye-beck, a kind of dye-vat with a winch, for dyeing piece-goods which are made to pass spirally along the winch, by means of guide-pins, from one end to the other.



dye-box (di'boks), n. In leather-manuf., a box or tray in which the dye is placed and in which

or tray in which the dye is placed and in which the skins are dipped.

dye-leaves (di'levz), n. pl. 1. The inkberry or gallberry, Ilex glabra.—2. The sweetleaf, Symplocos tinctoria.

dyer's-weed, n. 2. The woad, Isatis tinctoria.

3. Either of the two American goldenrods, Solidago nemoralis and S. rugosa, somewhat used in dyeing. See Solidago.

dyestuff, n.-Albumen dyestuff. Same as albumen

dygogram(dī'gō-gram), n. [Gr.δi'(ναμς), power, + γω(νία), angle, + γράμμα, a writing.] A diagram that shows both the horizontal directive magnetic force of the compass-needle on board ship under local influences and its deviation from the meridian for any latitude and sailingcourse; specifically, the dygogram of Captain Colongue (1870) and of A. Smith, from which Paugger obtained the idea of his mechanical dromoscope of 1872.

dyn., dynam. Abbreviations of dynamics.

dyname, n. See dynam, 2.

dynamic, a. 5. Sthenic; functional, not organic: as, a dynamic disease.—6. In bot., capable of strongly swelling on one side: appable of strongly swelling on one side: applied to tissue.—Dynamic action. See *action.
—Dynamic agent, in society, whatever produces change, especially progressive change. L. F. Ward, Outlines of Sociol., p. 167.—Dynamic cooling, in meteor., the cooling of a portion of the atmosphere when it expands against a slightly inferior pressure whereby its own internal heat is partly consumed in doing external work.—Dynamic density. See *adensity.—Dynamic heating, in meteor. the warming of the air, when it is compressed, by virtue of a slightly superior external pressure whereby work is done upon it and an equivalent amount of heat is thereby generated.—Dynamic knowledge, meteorology, etc. See *knowledge, *meteorology, etc.

Dynamical capacity, in physics, same as density.

dynamicity (dī-na-mis'i-ti), n. [dynamic + y.] In chem., same as atomicity The term has not come into general use.

The term has not come into general use.

dynamics, n.—Chemical dynamics, in phys. chem., chemical mechanics as applied to a chemical system which is not in equilibrium but is undergoing changes in the active masses of the reacting substances; the study of the velocity of chemical reactions.—Vital dynamics, the theory of the vital forces in motion, as distinguished from mechanical or chemical forces acting upon the living organism.

2 A student of dynamics

dynamist, n. 2. A student of dynamics.

dynamist, n. 2. A student of dynamics.

dynamite, n. Nitroglycerin soaked up by slicious earth as an inert absorbent or 'dope' is now distinguished as dynamite No. 1, and the meaning of the word is extended so as to include also numerous mixtures of nitroglycerin with absorbents which increase the force of the explosion. See dope, 3.—Gelatin dynamite, a high explosion see dope, 3.—Gelatin dynamite, a high explosion see dope, 3.—Gelatin dynamite, a high explosive used for blasting, made by mixing a cheap absorbent with explosive gelatin.—Lignin dynamite, a tradename for various mixtures of wood-pulp or sawdust with a nitrate, generally sodium nitrate, and more or less nitroglycerin: used as explosives in blasting.

dynamite.shall (di'namitable!) n. A pro-

dynamite-shell (di'na-mit-shel"), n. A pro-

dynamitic (di-na-mit'ik), a. [dynamite + -ic.]
Of or pertaining to dynamite or dynamiters.
dynamitist (di'na-mi-tist), n. [dynamite + ist.] One who favors dynamitism.

dynamo, n.—Compound dynamo, a dynamo in which the field-magnets are excited by both series and shunt windings.—Fly-wheel dynamo, a dynamo in which the revolving part, either the armature or field, serves as a fly-wheel for the engine.—Load of a dynamo. See **load2.

dynamocosmical (dī 'na-mō-koz 'mi-kal), a.
In meteor., relating to the terms in the analytical expression for the variations of any meteorological element that are supposed to depend upon the influence of forces external

depend upon the influence of forces external to the earth and therefore solar or cosmical.

dynamogen (di-nam'ō-jen), n. [Gr. δίναμις, power, + -γενής, -producing.] A trade-name of an explosive consisting of yellow prussiate of potash, potash, chlorate of potash, starch, and charcoal, made into a paste with boiling water and spread with a brush over porous paper, which is then to be dried, cut up, and rolled into cartridges. rolled into cartridges.

rolled into cartridges.

dynamogenesis, n.—Law of mental dynamogenesis, in psychol, the doctrine that every consciousness tends to express or realize itself in corresponding muscular movements; or, more accurately, that every consciousness tends to kinesthesis as its natural term. The law is a translation, so to speak, from the law of neural dynamogeny, which asserts that incoming energy of stimulation tends always to be transformed into outgoing energy of bodily movement. Its verification has usually been attempted by means of the dynamometer or some equivalent instrument; a normal pull or squeeze is recorded, and then the pull or squeeze as reinforced by the dynamogenic effect of some sensory stimulus.

If simultaneously with the contraction the subject

If simultaneously with the contraction the subject

received a sensorial impression, the contraction was some-times weakened, but more often increased. This rein-forcing effect has received the name of dynamogeny. W. James, Prin. of Psychol., II. 379.

dynamogenetic (dī'na-mō-jē-net'ik), a. Same s dunamogenic.

dynamogenic, a. 2. Producing force: as, the dynamogenic value of food. Smithsonian Rep., 1898, p. 543.

dynamogenous (di-na-moj'e-nus), a. Same as

dynamogenic.

dynamogenously (di-na-moj'e-nus-li), adv. In accordance with the principle of dynamogeny.

dynamographic (di'na-mo-graf'ik), a. [Gr. δίναμις, power, + γράφειν, write, + -ic.] Of or pertaining to the graphic recording of force.

dynamology (di-na-mol'ō-ji), n. [Gr. δύναμις, power, + -λογία, ⟨λέγειν, speak.] The science of forces; dynamics.

In the sciences of organized bodies we find them sub-divided by abstraction into categorical sciences, which we call chemology or chemistry, morphology, dynamology or dynamics, ontology or evolution, and psychology. J. W. Powell, in Amer. Anthropologist, Oct.-Dec., 1901,

dynamometamorphic (di'na-mō-met-a-mōr' fik), a. Pertaining to or characteristic of dynamometamorphism, or changes effected in rocks by movement and pressure. Nature, Aug. 4, 1904, p. 317.

Aug. 4, 1904, p. 517.

dynamometamorphism (di na mō met a mōr fizm), n. [Gr. δίναμις, power, + metamorphism.] In petrog., metamorphic changes produced by mechanical rather than chemical

processes. See metamorphism.

dynamometamorphosed (di'na-mō-met-a-môr'fōzd), p. a. Metamorphosed by processes among which earth-movements are the

controlling factors.

dynamometer, n. 2. An instrument for determining the magnifying power of a telescope by measuring the diameter of the little image of the object-glass which is formed just outside of the eyepiece: usually, and better, called dynameter, to distinguish it from the instrument for measuring stress.

dynamophone (di-nam o-fon), n. [Gr.δίναμις, power, + φωνή, sound.] A form of transmission dynamometer in which the twist of a running-shaft is determined by the aid of specially mounted telephones whose relative angular positions, when giving the same tone vibrations, can be accurately measured and compared with those when the shaft is at rest. Science,

with those when the shaft is at rest. Science, Aug. 29, 1902, p. 339.

dynamoscope (dī-nam'ō-skōp), n. [Gr. δίναμς, power, + σκοπεῖν, view.] An appliance for auscultating a muscle during its contraction.

dynamoscopy (dī-na-mos'kō-pi), n. [dynamoscope + -y³.] The use of the dynamoscope in listening to the murmur produced by contractions are the stress of the dynamoscope.

ignified with thin walls and containing a large bursting-charge of dynamite; especially the shell fired from dynamite-guus.

dynamitic (di-na-mit'ik), a. [dynamite + -ic.]

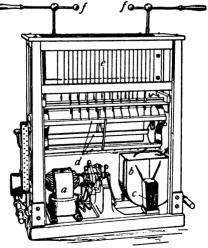
Of or pertaining to dynamite or dynamiters.

In fistering to the intrindir produced by continuous tracting muscular fibrils.

dynamostatic (di'na-mō-stat'ik), a. [Gr. δίνα-μις, power, + στατός, < ἱστασθαι, stand: see static.]

Static in connection with power.

—Dynamostatic machine, a machine designed by



Dynamostatic Machine. a, dynamo or converter; b, step-up transformer: ε, laminations;
 d, revolving-frame; ε, glass condensers; f, spark-terminals.

Professor E. Thomson, which gives very high direct-current voltage of considerable power. It consists of an alternating-current generator or inverted converter (see ***rcansformer**), a step-up transformer (see ***rcansformer**), a series of glass-plate condensers, and a frame revolved

synchronously with the converter, which charges the con-densers in parallel and connects them in series for dis-charge.

densers in parallel and connects them in series for discharge.

dynamotor (di'na-mō-tor), n. [Gr. δiva(μις), power, + E. motor.] A combined electrical motor and generator by means of which direct current can be drawn from the source of supply at one voltage and delivered for use at another voltage. The dynamotor is used for electroplating, and has various functions in laboratories which employ electric power. Scripture. Exper. Phonetics, p. 209.

dyne-centimeter (dīn-sen'ti-mō-tèr), n. 1. The c. g. s. unit of work; the work done by a dyne of force acting through one centimeter; an erg.—2. The c. g. s. unit for moment of force; a unit of torque; the moment of a force of one dyne acting at the end of an arm one centimeter in length.

dyophone (dī'ō-fōn), n. [Gr. δio, two, + φωνή, sound.] In acoustics, an instrument for the simultaneous production of two tones differing in composition or timbre but of equal pitch.

dyophysite (dī-of'i-zīt), n. [Gr. δio, two, +

dyophysite (dī-of'i-zīt), n. [Gr. δύο, two, + φύοις, nature, + -ite².] Same as diphysite. dyophysitiam (dī-of'i-zī-tizm), n. [dyophysite

two, $\theta \epsilon \lambda \eta \eta \eta_s$, one who wills, $\theta = 1$ and $\theta = 1$ the contract that there are two wills in Christ.

The monotheletian patriarchs and the dyotheletian popes mutually anathematized each other.

A. F. Heard, Russ. Church and Russ. Dissent, p. 2.

dyotheletism (dī-oth'e-lē-tizm), n. Same as dyothelism.

dyphone (di'fōn), n. [Irreg. spelling for di-phone, as if meaning 'having a doubled, that is, increased sound.'] A powerful double lute with fifty strings, invented by Thomas Mace of London in 1672.

dysacousis (dis-a-kö'sis), n. [Also disacusis; NL., C Gr. ovo-, ill, + akovou, hearing.] Incomplete deafness; hardness of hearing. Also

dysalbumose (dis-al'bū-mōs), n. [dys- + al-bumose.] A variety of hetero-albumose which results from the latter on standing. It is in-

soluble in a dilute saline solution. dysaphe (dis'a-fē), n. [NL., $\langle Gr. \delta v\sigma$ -, ill, + $d\phi \eta$, touch, $\langle \hat{a}\pi \tau e \iota v$, touch.] Impaired sense of touch.

dysaphia (dis-ā'fi-ā), n. [NL.] Same as *dysaphe.

dysarthrosis (dis-ar-thro'sis), n. [NL., < Gr

dysarthrosis (dis-är-thrō'sis), n. [NL., < Gr δυσ-, ill, + ἀρθρωσις. jointing: see arthrosis.]

1. Same as dysarthria.—2. Congenital defect causing limited movement of a joint.—3. Dislocation of a joint.—4. A false joint.

dysboulia (dis-bō'ii-ā), n. [NL., < Gr. δυσ-, λία, ill counsel (taken as 'difficult willing'), < δυσ-, hard, ill, + βουλή, will, wish, counsel.] Impairment of the power of the will. Also written dysbulia. Baldwin, Dict. of Philos. and Psychol., II. 817.

dyschromia (dis-krō'mi-ā), n. [NL., < δυσ-, hard, ill, + χρῶμα, color.] Same as dyschroia.

dyschronous (dis'krō-nus), a. [Gr. δυσ-, ill, + χρῶνις, time.] Ill agreeing, or disagreeing, in time: opposed to synchronous.

It [consclousness] has a selective power, manifest both

It [consciousness] has a selective power, manifest both in choosing and in combining sensations received at different times. It can make synchronous impressions dyschronous in their effects, and dyschronous impressions synchronous.

Science, July 4, 1902, p. 5.

dyscinesia, n. Same as dyskinesia.
dyscoria (dis-kō'ri-ä), n. [NL., ζ Gr. δυσ-, ill,
+ κόρη, pupil of the eye.] Irregularity in the
contour of the pupil of the eye.
dyscrasia! (dis-krā'si-al), a. [dyscrasia +
dysl'] Same as dyscasia.

dyscrasia! (dis-kra ki-ai), a. [ayscrasia + -all.] Same as dyscrasic.
dysderid (dis'dē-rid), n. and a. I. n. A member of the family Dysderidæ.

II. a. Having the characteristics of or belonging to the family Dysderidæ.
dysenteriform (dis-en-ter'i-form), a. [L. dys-

dysenteriform (dis-en-ter'i-fôrm), a. [L. dys-enteria, dysentery, + forma, form.] Resembling dysentery,

dysentery, n. Recent researches have shown that there are at least two diseases, and possibly more, having the same general symptoms and still grouped under the common designation of dysentery. One form, distinguished as hacillary dysentery, is characterized by the presence of a specific bacillus, Bacillus dysenterie or Shiga's bacillus (so named after the Japanese physician who discovered it). Another form, amebic dysentery, is associated with the presence in the intestine of a unicellular animal micro-organism, Amaba dysenterie. This form is less acute in its onset than bacillary dysentery,

but may continue for months or even years, causing great emaciation and anemia, and not infrequently leading to s of the liver

aysentery-root (dis'en-ter-i-rot), n. The stickseed or beggar's-lice, Lappula Virginiana, from the supposed medicinal properties of the Also called dysentery-weed

dysentery-weed (dis'en-ter-i-wed), n. 1. Same as *dysentery-root.—2. The low cudweed or wartwort. Gnaphalium uliginosum.

dysgalactia (dis-ga-lak'ti-ā), n. [NL., ζ Gr. δνσ., ill. hard, + γάλα (γαλακτ-), milk.] Diminished secretion of milk, or secretion of

in writing.

dyslysin (dis'li-sin), n. [Gr. $\delta v\sigma$ -, ill, $+\lambda \delta \sigma \iota \varsigma$, dissolution, $+ -in^2$.] A decomposition-product of cholalic acid. $C_{24}H_{36}O_3$, formed during the process of intestinal putrefaction.

dysmenia (dis-mē'ni-ä), n. [NL., \langle Gr. $\delta v\sigma$ -, ill, $+ \mu \dot{\eta} v$, month.] Same as dysmenorrhea.

dysmenorrhea (dis-men- $\ddot{\phi}$ -rē'ik), a. Same as dysmenorrhea

dusmenorrheal.

dysmenorrheal.
dysmnesia (dis-mnē'si-ā), n. [NL., < Gr. δυσ-, hard, ill, + μνῆσις, memory.] Forgetfulness; impaired memory.
dysodontiasis (dis'ō-don-tī-ā'sis), n. [NL., < Gr. δυσ-, ill, + ὀδούς (ὀδουτ-), tooth, + -iasis.] Delayed or defective dentition.
dysosmia (dis-os'mi-ā), n. [NL., < Gr. δυσοσμία, ill smell (taken in NL. as 'difficulty of smelling'), < δύσοσμος, ill-smelling, < δυσ-, ill, + ὀσυή, ὀδμή, smell.] Loss in whole or in part of the sense of smell.
dysostosis (dis-os-tō'sis), n. [NL., irreg. for

dysostosis (dis-os-tō'sis), n. [NL., irreg. for *dysosteosis, < Gr. δυσ-, ill, + δστέου, bone, + -osis.] Imperfect formation of bone.

-0818.] Imperfect formation of bone.

dyspepsia, n.—Acid dyspepsia, impaired digestion due to extreme acidity of the gastric juice.—Reflex dyspepsia, impairment of the digestive powers as a result of reflex nervous influence, due, for example, to eye-strain.—Salivary dyspepsia, impairmed digestion due to deficiency or altered character of the saliva.

dyspepsiodynia (dis-pep'si-ō-din'i-i), n. [NL., Gr. δυσπεψία, dyspepsia, + δόῦνη, pain.] Hearthurn.

dyspepsiodynia (dis-pep'si-ō-din'i-i), n. [NL., Gr. δυσπεψία, dyspepsia, + δόῦνη, pain.] Hearthurn.

dyspeptodynia (dis-pep'tō-din'i-\u00e4), n. [NL.] Same as *dyspepsiodynia.

dyspeptone (dis-pep'tōn), n. [dys-+ peptone.] An insoluble modification of hetero-albumose which results from the latter on prolonged exposure to water or on drying. Also termed dysalbumose

dysphasia (dis-fā'ziā), n. [NL., ζ Gr. δυσ., hard, + φάσιζ, a speaking.] Difficulty of speech which does not amount to actual aphasia.

Diminished section milk of an unhealthy cuanas dysgenesia (dis-je-ne'si-ä), n. [1]

as dysgenesia.

dysgeogenous (dis-je-oj'e-nus), a. [Gr. &vo-, ill, + \gamma^n, \gamma_n = \g

and gadolinite, closely related to holmium, but distinguished from it by a special absorptionspectrum. Symbol, Dy; atomic weight, 162.5.
dysrhythmia (dis-rith mi-μ), n. [NL., ζ δυσ-,
ill, + ριθμός, rhythm.] In pathol., an occasional disturbance of rhythm.

sional disturbance of rhythm.

dyssynchronous (di-sing'krō-nus), a. [Gr. δυσ., bad, ill. + σίν, with, + χρόνος, time.] Not coincident as to time; not synchronous.

dystaxia (dis-tak'si-ā), n. [NL., < Gr. δυσ., ill. + τάξω, disposition, order.] Tremor similar to that which occurs in paralysis agitans.

dysteleological, a. 2. Of the nature of or pertaining to dysteleology.

Arguments [from design] . . . cut both ways, as the formidable array of facts capable of an equally cogent dysteleological application sufficiently shows.

J. Ward, Naturalism and Agnosticism, I. 6.

dysteleology, n. 2. Any evasion of the functional aim or end, as where an insect punctures a nectary from below without coming into contact with the anthers, thus frustrating the end of cross-fertilization.

dysthanasia (dis-tha-na'si-ä), n. [NL., < Gr.

δυσθάνατος, bringing a hard death, < δυσ-, hard,

+ θάνατος, death.] A painful death.

dysthymia (dis-thi'mi-ä), n. [NL., < Gr. δυσθυμία, despondency, < δύσθυμος, despondent, melancholy, low in mind, < δυσ-, ill, + θυμός, mind.] Mental depression.

dysthyroidism (dis-thi'roid-izm), n. [dys-thyroid + -ism.] A morbid state marked by impaired function of the thyroid gland.

Apphasia.

dysphasic (dis-fā'zik), a. Neissand dysphasia.

dysphonic (dis-fō'nik), a. Relating to or suffering from dysphonia.

dysphotic (ωιs-fō'rik), a. [Gr. δνσ-, ill, + φōς (φωτ-), light, + -ic.] In phytogeog: (a) Poorly lighted: designating the dim tract between the photic and aphotic levels in a body of water.

| A condition in which the healing processes are sluggish.
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paralysis).

dysuresia (dis-ū-rē'si-ā), n. [NL., ⟨Gr. δυσ.,
hard, + οὐρησις, urination.] Same as dysuria.

dysuresis (dis-ū-rē'sis), n. [NL., ⟨Gr. δυσ.,
hard, + οὐρησις, urination.] Same as *dysuresia.

uresia.

dysyntribite (di-sin'tri-bīt), n. [Appar. an error for *dyssyntribite, irreg. < Gr. δυσ-, ill, + συντρίβειν, shatter (σίν, together, + τρίβειν, rub, scrape), + -ite².] An impure massive mineral or rock, resembling serpentine in appearance, but near pinite in composition: it occurs in Jefferson county and elsewhere in northern New York and is doubtless pseudomorphous in origin. morphous in origin.

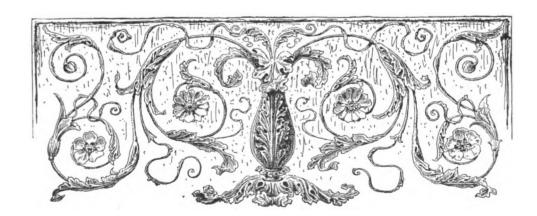
Dyvour's habit. See *habit.
dzo (dzō), n.; pl. dzos (collective dzo). [Tibetan dzo (Jaeschke, 1866, p. 33).] A hybrid, the



Dzo.

result of a cross between the male of the water buffalo and the female of the domesticated yak. The dzo are kept for beasts of burden and for the milk yielded by the cows.

They also breed herds of dzo, a very valuable hybrid be-tween the cow [buffalo] and yak, and capable of carrying eighty pounds more than either the horse or mule. The male dzo is used for ploughing, and the female gives more milk than any other of the bovine race. . . . From the hair of the dzo and yak the Mantzu prepare a heavy let used for boots and for circular cloaks, worn in cold or wet weather. Geog. Jour. (R. G. S.), X. 36.







to stretch a bar of any material one square inchin cross-section until its length is increased by one hundred per cent. (f) In elect., a symbol for electromotive force. — 5. An absymbol for electromotive force. — 5. An abbreviation (c) of Earl; (d) of Eastern; (e) of English; (f) in exper. psychol., of experimenter.

E. A. An abbreviation of entered apprentice,

in freemasonry.

eacid (6'as'id), n. [Prop. e-acid or E-acid, appar. for E(mmens's) acid.] The name given by Dr. Emmens of New York, in 1888, to a substance which he assumed to be a new organic substance which he assumed to be a new organic acid, but which in fact was merely picric acid or trinitrophenol crystallized from solution in strong nitric acid and perhaps retaining a little of the latter. Also Emmens's acid.

eagle, n., 1. The eagle is the emblem of St. John the Evangelist and for this reason is placed on lecterns from which the gospels are read. It is also the emblem of regal and imperial power and as such was adopted by the Roman and Holy Roman Empires.

9. A base foreign coin which circulated in England in the reign of Edward I.—Bearded eagle. Same as bearded vulture.

eagle-fern (e/gl-fern), n. See *fern1.

eagle-hawking (e/gl-hak*ing), n. The plucking of wool from dead sheep. [Bushman's Eng., Australia.]

Eng., Australia.]

Eng., Australia.]

821, n., 8. (g) In archery, the stiff portion of a reflex bow at the end of each limb and including the nock. The ear works stiffly in order that the curve of the bow may be more readily reversed in stringing it.—Blainville ears, congenital inequality in size and configuration of the two ears.—Cagot ear, absence of the lobule of the ear.—Cauliflower ear, a shrunken ear following the absorption of effused blood after an injury.—Darwinian ear, an ear in which the upper portion of the helix is defective.—Diabetic ear, mastolidits occurring as a complication of diabetes.—Ear vesicle, a cystic structure constituting the organ of hearing in mollusks and worms. See cut under Synapticle.—Insane ear, hematoma auris.—Morel ear, a large flabby ear in which the curves of the concha are not pronounced.—Stahl ear, an abnormally broad external ear.—To be on one's ear, to be very angry or much exasperated. [U. S. slang.]

—Vestibule of the ear. See membranous vestibule, under vestibule.—Wildermuth ear, abnormal prominence of the antihelix.

earbow (ēr'bō), n. The forehead-piece of a

earbow ($\bar{e}r'b\bar{o}$), n. The forehead-piece of a oridle when it is made to pass before one ear and behind the other.

ear-covert (ēr'kuv'ert), n. In ornith., one of the tufts of feathers covering the external opening of the ear.

car-crystal (er'kris'tal), n. Same as otolith. car-cushion (er'kush'on), n. A small cushion designed to be hung in the back of a coach as a head-rest.

ear-finger (ër'fing'ger), n. The fifth or little finger: also called the auricular finger.

ear-forceps (ēr'fôr"seps), n. very delicate forceps for removing foreign bodies from the centary (Chrysops entary (U.S. tory canal.



(U. S. D. A.)

tween the recurre conductor of an electric system and the ground.

ear-learning (ēr'ler'ning), n. Learning that earth-fork (èrth'fôrk), n. A fork with flat times, is acquired through the sense of hearing.

Scripture, Exper. Phonetics, p. 114.

tween the recurre conduct of an electric system and the ground.

earth-fork (èrth'fôrk), n. A fork with flat times, used, like a spade, for turning up the earth.

earth-glacier (èrth'glā'shier), n. A mass of

3. (c) (3) [cap.] The sign of residuation (which see). (d) [cap.] In chem., sometimes used as the symbol for erbium: more commonly Er. (e) The common symbol for the modulus of elasticity, or the force, in pounds, required of any material one square

Notwithstanding the fact that he was decidedly visual, he had a strong tendency to be ear-minded.

W. B. Secor, in Amer. Jour. Psychol., XL 228.

ear-mindedness (ēr'mīn' ded-nes), n. In psychol., a type of mental constitution, characterized by the predominance of auditory processes as vehicles of the complex mental

processes as venices of the complex mental functions (thought, memory, etc.). Baldwin, Dict. Philos. and Psychol., II. 571.

ear-muff (ēr'muf), n. One of a pair of coverings for the ears, made of cloth or fur, worn as a protection against wind and cold.

ear-sand (er'sand), n. Same as ear-dust.
ear-splitting (er'split'ing), a. Deafeningly or overpoweringly noisy.
ear-tab (er'tab), n. One of a pair of tabs or tags fastened to a cap and tied down over the ears and under the throat as a protection from the cold.

ears and under the throat as a protection from the cold.

earth¹, n.—Barbados earth, a friable earthy marl of Miocene age, occurring in the Barbados Islands and accumulated in deposits which rise to a height of over one thousand feet. It is largely composed of the minute sillier clous skeletons of radiolarians with an intermixture of the calcareous tests of the Foraminifera. According to Haeckel the number of species of Radiodaria in the Barbados earth is not less than 400 and probably more than 500. This authority regards it as a deep-sea deposit and states that very many of the Barbados radiolarians "are to-day extant and unchanged in the radiolarian oze of the deep Pacific Ocean."—Black earth. (b) Same as chernozem.—Blue earth, a local name for the stratum which yields amber on the shores of the Baltie San—Cassel earth. Same as Vandyke brown.—Earth quadrant. See *quadrant.—Golden earth, in early chemistry, one of the names for orpiment or arsenic trisulphid.—Japonic earth, terra Japonics; catechu; cutch.—Rare earth in chem., one of those earths of which the compounds are found in nature only in small quantity and sparingly distributed. The principal rare earths are beryllia, scandia, ceria, lanthana, neodymia, praseodymia, yttria, erbia, terbia, ytterbia, samaria, zirconia, and thoria; but there is doubt as to the individuality of some of these, and several others have received partial recognition.—Rare-earth metals, the metals the oxids of which are known as the rare earths. See *earth.—Red earth, red residual soil which results from the decomposition of ferruginous rocks; terra rossa.—Residuary earth, soil formed by the decomposition and disintegration of rock, without undergoing transportation. R. D. Satisbury, Geol. Surv. of New Jersey, 1892, p. 45.—Santorin earth, a mineral material of volcanic origin, resembling the Italian pozuolana, found in the Greek island of Santorin, used in making hydraulic cement.

earth-almond (érth'8/mond), n. The yellow nut-grass or earthnut, Cyperus esculentus. More

in making hydraulic cement.

earth-almond (erth'ä'mond), n. The yellow nut-grass or earthnut, Cyperus esculentus. More frequently in the plural.

earth-apple (erth'ap'l), n. The Jerusalem artichoke, Helianthus tuberosus.

earth-bar (erth'bär), n. In elect., a metallic bar forming part of a switchboard and used as a conductor for grounding such circuits as may be connected with it.

earth-club (erth'klub). n. The squawroot.

earth-club (erth'klub), n. The squawroot, Conopholis Americana, so called from the club

earth-drop (etth'drop), n. In elect., the voltage or difference of potential at any point between the return conductor of an electric sys-

land-waste and snow which slides down hill as the snow melts in the spring. J. Geikie, The

Great Ice Age, p. 600.

earthing (erth'ing), n. In elect., the act of connecting to earth; grounding.

earth-lamp (erth'lamp), n. In elect., an incandescent lamp one terminal of which is grounded while the other is connected through a switch to a circuit I the base of the connected through a switch. to a circuit. It thus serves as an indicator of the insulation of the circuit from earth.

the insulation of the circuit from earth.

earth-lard (erth'lärd), n. The subterranean larvæ of the common European cockchafer, Melolontha vulgaris. [Great Britain.]

earth-light (erth'lit), n. Light reflected by the earth: same as earth-shine.

earth-louse (erth'lous), n. 1. Any root-feeding aphidid, as the corn root-louse, Aphis maidi-radicis, or the lettuce root-louse, Rhizo-bius lactucæ.—2. Any one of many soil-inhabiting thysanurous insects, especially those of the family Poduridæ.

earth-metal (erth'met'al), n. A metal the oxid of which is classed among the earths, as aluminium, the oxid of which is alumina.

aluminium, the oxid of which is alumina.

earth-pillar (erth'pil'är), n. A column of loose, unconsolidated material produced by erosion. The best known examples are found in the Tyrol.

A paper by Dr. Christian Kittler on earth-pillars and similar structures. Geog. Jour. (R. G. S.), XL 441.

earth-pitch (erth'pich), n. Same as mineral pitch (which see, under mineral).

earthquake, n.—Submarine earthquake, one whose origin or focus is beneath the sea, and which affects the overlying sea-bottom.

earth-return (erth're-tern'), n. In elect., a re-turn-circuit which, instead of being insulated, is grounded throughout, or of which the ground itself forms a principal part: opposed to metallic *return.

earth-sculpture (erth'skulp'tūr), n. The modifying of surface features of the earth by surface agencies; the carving of relief by erosion. earth-shaker (erth'shā'kèr), n. A poetic epithet (Gr. σεισίχθων), applied to Poseidon and Zeus.

He [Poseidon] is clearly the impersonation of water rather than either the earth-shaker or the brother of Zeua.

P. Gardner, Types of Greek Coins, p. 203.

earth-shock (erth'shok), n. An earthquake; specifically, the most violent oscillations during the continuance of an earthquake; also, the sudden movement of the ground consequent upon the intentional explosion of a mine or the accidental explosion of a magazine of explosives.

carth-shrinkage (erth'shring'kāj), n. In geol., the shortening of the earth's diameter and the lessening of its volume, which are inferred from the deformation of its outer portion, and which are explained by loss of heat, by loss of centrifugal energy, and by loss of porosity.

Under the new hypothesis the earth-shrinkage is due to original porosity and gravitational compression, and is in active operation today. The amount of such spacial reduction has not been estimated, but it must be several times any possible reduction due to cooling.

Amer. Geol., Feb., 1904, p. 112.

earth-slope (erth'slop), n. The slope which loose rock-waste will assume under the influence of gravity.

earth-wave (erth'wav), n. An oscillation of the ground, either vertically or horizontally, on a small scale, as by the explosion of a mine, or on a large scale, as by earthquakes; a vibration of the crust of the earth as an elastic

earth-wax (erth'waks), n. Same as ozocerite

earthy, a. 6. In chem., having the general character of the substances known as earths, and of their compounds: as, an earthy degeneration. Same as calcareous degeneration (which see, under degeneration).

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ear-tone (ēr'tōn), n. In psychol., a tone due to the constitution of the ear itself, and not to the presence of a wave-motion in the surrounding medium.

The first difference-tone . . . is an ear-tone and not an ir-tone.

E. B. Titchener, Exper. Psychol., I. i. 40.

ear-tuft (ēr'tuft), n. 1. A tuft of feathers suggesting an ear, as those of the great horned owl.—2. A tuft of feathers arising near the ear-opening, as in the Inca tern.—3. A tuft or pencil of hair on the tip of the ear, as in the lynx.

the lynx.

east, n.—East-by-north, the seventh point of the compass, counting from north, equal in angular value to 78° 46′.—East-by-south, the seventh point of the compass, counting from south, equal in angular value to 78° 46′.—East Coast fever. Same as African Coast *fever.—East-northeast, the sixth point of the compass, counting from north, equal in angular value to 67° 30′.—East-southeast, the sixth point of the compass, counting from south, equal in angular value to 67° 30′.

east-ender (ēst'en'der), n. An inhabitant of the eastern part of a city or town, specifically [cap.] of the East End of London.

easter (ēs'ter) n. i. [easter(ls)]. To change

easter (ēs'ter), v. i. [easter(ly).] To change toward the east, as the wind; move toward the east, as the head of a vessel.

Easter card, 111y. See *card1, Bermuda *lily.
Easter-bell (es'ter-bel), n. The greater stitch-wort, Alsine Holostea.

Easter-ledges (ës'ter-lej'ez), n. The bistort, Polygonum Bistorta. See Polygonum.

East-Indian (ëst-in'di-an), a. and n. I. a. Of or pertaining to the East Indies: used in a comprehensive sense.

. n. A native or resident of the East Indies. easting, n. 2. Reaching the point in its diurnal motion where it crosses the prime vertical and is exactly east of the observer: said of a hea-

venly body. **Eastlake** (ēst'lāk)' a. Noting a style of design in fur-niture, current in England and the United States in the latter half of the nineteenth centhe mineteenth century. It was based on a book entitled "Hints on Household Taste" written by Sir Charles L. Eastlake and published in London in 1869. Eastlake's designs are, for the most part taken from the medieval work of England.



Eastlake Chair

eastmost(ēst'mōst), a. Farthest east (of a series or row): as, the eastmost house on a street that runs east and west; easternmost.

Eastralia (ēs-trā'li-ā), n. [East (Aust)ralia.]
A modern colloquial designation for the east-

ern Colonies of Australia. [Australia.]

Batonia (6-tô'ni-ä), n. [NL., named for Amos

Eaton.] A genus of telotrematous Brachiopoda characterized by large flabellate, deeply
excavate muscular scars in the ventral valve and a large bifurcate cardinal process. It is of

early Devonian age.

Eau céleste [F., 'sky water,' alluding to its deep-blue color], a fungicide applied to fruit-trees and other plants as a spray, originally made with copper sulphate and ammonia largely diluted with water, forming a solution of a deep-blue color. The modified cau céleste is now made with 4 pounds of crystallized copper sulphate, 5 pounds of sodium carbonate. 3 pounds of water of ammonia, and 45 gallons of water.—Eau-de-vie de piquette, an inferior brandy, made by distilling the weak wine or piquette obtained by adding water to the marc, or residue of grape-skins, seeds, etc., left in the first expression of grape-juice, re-pressing and fermenting the liquid. Jour. Soc. Chem. Industry, XI. 256.—Eau forte [F., 'strong water']. See aqua fortist.

eau-fortist (ō-fôr'tist). n. [F., < eau forte + -iste, E. -ist.] One who uses eau forte or aqua fortis especially in etching; an etcher.

of the more common Er.) for erbium.

ebb, n.- Ebb-and-flow structure, in geol., an alternation, in a sandstone, of a cross-bedded layer with a horizontal one indicating a period of deposition in a considerable current succeeded by one of comparative quiet.

Ebenezer (eb-en-6'zer), n. [Heb., 'stone of help.'] 1. A stone erected by Samuel (1 Sam. vii. 12) as a memorial of divine aid in defeating the Philistines. Hence—2. Any memorial of eburnated (eb'ū-rā-ted), a. [L. eburatus, (ebur, ivory.] Covered with, or as with, ivory; having the appearance of ivory. Proc. Zool. Soc. London, 1898, p. 318.

a chapel or enurch.

Here I raise my Bbenezer,

Hither by thy help I'm come;

And I hope, by thy good pleasure,

Safely to arrive at home.

R. Robinson, Come Thou Fount of Every Blessing (old [version], st. 3.

A contemptuous name for a 'dissenting'

chapel or church. [Eng.]

Bberth's bacillus. See *bacillus.

Bbionize (ê'bi-qu-iz), v. i, pret. and pp. Ebionized, ppr. Ebionizing. [Ebion(ite) + ize.] To become an Ebionite, or to affect or imitate the doctrines and practices of the Ebionites.

Block

B. C. An abbreviation (a) of Eastern Central, a London postal district; (b) of Established

ebonine (eb'o-nin), a. [ebon + -ine¹.] Black; dark; somber: as, "the ebonine gate of doom," F. T. Palgrave.

dark; somber: as, "the ebonine gate of doom,"
F. T. Palgrave.

ebony, n.—Black ebony, a trade-name for the wood of Diopyros Dendo. See Niger *kebony.—Galabar, Gaboon, Lagos ebony, Same as Niger *kebony.—Ceylon ebony, the wood of several species of Diospyros, especially D. Ebenaster, D. Ebenum, D. montana, and D. sylvatica.—False ebony, ebony of the Alps. See laburum.—Green ebony of India, the hard, greenish-yellow wood of Diospyros chloroxylon.—Madagascar ebony, the highly prized wood of two species of Diospyros, D. haplostylis and D. microrhombus.—Manila ebony, the wood of either of two trees, Diospyros Ebenaster and the mabolo, D. discolor. See *mabolo and *kamagon.—Mauritius ebony, the wood of Diospyros tesselaria: often called black Mauritius ebony to distinguish it from the white ebony.—Mountain ebony of Australia. Same as Queensland *kebony.—Niger ebony, the black wood of the dendo, Diospyros Dendo. Also called Calabar, Lagos, Gaboon, and black ebony. See *dendo.—Orange River ebony, the hard, black wood of Euclea Pseudebenus, a shrub or small tree of the family Diospyraces. See *Euclea, 2.—Queensland ebony, the wood of ether of two leguminous trees Bauhinia Carronti and B. Hookeri. Also called mountain ebony.—Red ebony of Mauritius, the wood of Diospyros rubra.—St. Helena ebony, the hard, black wood of Trochetia Melanoxylon, a small tree of the family Sterculiaces indigenous to the island and now nearly exterminated.—Sénégal ebony, the jet- or brownish-black wood of several species of the genus Diospyros especially D. Ebenum, D. montana, D. ramifora, D. Ebenaster, and D. peregrina. See gaub.—Texan ebony, a handsome leguminous tree, Zyyla fexicaulis, of western Texas, Arlzona, and northern Mexico, especially of the Gulf coast and lower Rio Grande, with light-yellow fragnant flowers in dense spikea, large curved, woody pods, and very hard and heavy close-grained wood, often beautifully colored, and hence much prized



Texan Ebony (

(From Sargent's "Manual of the Trees of North Ameri

for furniture, etc.—White ebony, a trade-name for the grayish or white-streaked woods of Diospyros melanida and D. chrysophyllos of the Mascarene Islands. D. Malcapat, of the Philippine Islands, also furnishes some of the wood sold under this name.—Zanzibar ebony, the wood of Diospyros mespitiformis, a tree distributed over the whole of tropical Africa.

Ebor. An abbreviation of the Latin Eboracum, York, or of the Latin Eboracensis, of

cum, York.

drunk: see ebrious.] Drunk: same as ebrious. ebriously (8'bri-us-li), adv. Drunkenly.

Not ebriously swilled but moderately tasted.

T. Newton, Fowre Severall Treatise

ebulliently (ē-bul'yent-li), adv. In an ebullient manner; overflowingly; 'gushingly': as, ebulliently sentimental.

ebullioscopic (ē-bul'yō-skop'ik), a. 1. Of or pertaining to those methods of determining molecular weight, dissociation, osmotic pressure, etc., which depend upon measurements sure, etc., which depend upon measurements of the boiling-point. In the ebulloscopic method for the determination of the molecular weight of a substance the boiling-point of a liquid is observed as affected by the presence of a given proportion of the aubstance in question dissolved in such liquid. Amer. Eb. In chem., a symbol sometimes used (instead of the more common Er.) for erbium.

Ebb. n.— Ebb-and-flow structure, in geol., an altermation, in a sandstone, of a cross-bedded layer with a horizontal one indicating a period of deposition in a consideration.

divine assistance: often adopted as a name for a chapel or church.

of late geological deposits bearing human relies, a subdivision of the Paleolithic section in France. It includes the oldest deposits containing well-finished implements associated with carved bone and ivory. It was the period of the mammeth, went

well-inished implements associated with carved bone and ivory. It was the period of the manmoth, went back into glacial time, and was followed by the Tarandean or reindeer epoch.

eburneoid (ē-bèr'nē-oid), a. [L. eburneus, of ivory, + -oid.] Ivory-like as regards color; eburneous.

eburnitis (eb-ér-nī'tis), n. [NL., < L. eburnus, of ivory, + -itis.] A condition of increased density and hardness of the dentine of teeth.

a Lond Church. London postal district; (b) of Established

ecardine (ē-kār'din), n. [NL. Ecardines.] A mollusk having a shell without a hinge; a

brachiopod.

6cartel6 (ā-kār'te-lā'), a. [F., pp. of écarteler, divide into quarters.] In her., divided into quarters said of a shield.

ecboline (ek'bō-lin), n. [Gr. $i\kappa\beta$ o λ 4, a throwing out, + - ine^2 .] A brownish amorphous, slightly bitter alkaloid contained in ergot.

eccaleobion (e-kal'ē-ō-bī'on), n. [Irreg. \langle Gr. $\dot{\epsilon}$ κκαλέω, I call forth, $+\beta iov$, acc. of βiov , life.] An apparatus for hatching eggs by artificial heat; an incubator.

motion which is not in a circle around the center of attraction; as applied to curves generally, deviating from circularity, as the ellipse and hyperbola.—Eccentric projection. See *projection.—Eccentric wheel. (b) In carriages, a fifth wheel so centered that when backing to either side the body of the carriage is thrown to one side of the center, to facilitate turning in a short radius.

facilitate turning in a short radius.

II. n.—Adjustable eccentric, an eccentric which is so constructed that the distance between the center of figure and the center of motion can be varied in order to vary the throw of the rod. This result is secured either by slotting the disk of the eccentric, by mounting one eccentric upon another so that the effective eccentricity may be the sum or the difference of the eccentricity of each disk, or may have intermediate values.—Backward eccentric, that eccentric which is used when a locomotive or a ship goes backward and the valve-gear is adjusted accordingly. See reversing-gear.—Movable eccentric. Same as adjustable *eccentric.*

eccentrolinead (ek-sen-trō-lin'ē-ad), n. [eccentr(ic) + L. linea, line, +-ad³.] A ruler for drawing eccentric radial lines. It is used in designing gears and making drawings of

gear-teeth, etc.
ecchondrotic (ek-on-drot'ik), a. Same as
*epichondrotic.

ecchondrotome (e-kon'drō-tōm), n. [Gr. out. + χόνδρος, cartilage, + -τομος, ζ ταμε cut.] An instrument for cutting cartilage.

Eccl. An abbreviation (c) [l. c.] of ecclesiastic; (d) [l. c.] of ecclesiology.

ecclesiarchy (e-kle zi-år-ki), n. [Gr. ἐκκλησία, church, + aρχή, rule.] The rule of a church; government by ecclesiastics.

ecclesiast, n. 3. A member of the ancient Greek ecclesia; a free Greek citizen having the right to vote in the ecclesia or assembly. Ecclesiastical emerald. Same as Brazilian

*emerald. ecclesiasticize (e-klē-zi-as'ti-sīz), v. t.; pret. and pp. ecclesiasticized, ppr. ecclesiasticizing.
To render ecclesiastical; bring under the influence of, or into conformity with, the church.
ecclesiol. An abbreviation of ecclesiology.

ecclesiolater (e-klē-zi-ol'a-ter), n. [Gr. ἐκκλησία, church, + -λατρης, worshiper.] One who
shows excessive reverence for church authority, form, and traditions.

ecclesiolatry (e-klē-zi-ol'a-tri), n. [Gr. ἐκκλησία, church, + λατρεία, worship.] Worship
of the church as such; extreme, undue respect for the formal observances and author-Worship ity of the church.

eccrisiologia (ek-ris-i-ō-lō'ji-ä), n. [NL., ζ Gr. ἐκκρισις, secretion, + -λογια, ζλέγειν, speak.] That branch of physiology which treats of secretion: same as eccrinology.

eccritic, n. II. a. Relating to excretion or to any of the excretory organs: said of a disease which affects these functions or organs, or of a remedy which promotes excretion.

eccyclema (ek-si-klē'mā), n.; pl. eccyclemata -klem'a-tā). [Gr. ἐκκίκλημα, ζ κυκλείν, wheel out, ζ ἐκ, out, + κυκλείν, wheel, ζ κύκλος, a wheel.] A machine in the Greek theater which in some way disclosed an interior to the spectators, as in the murder scene of the "Agamemnon" of Æschylus. ecdemic (ek-dem'ik), a. [Gr. ἐκδημος, from echinochrome (e-ki'nō-krōm), n. [Gr. ἐχῖνος, home, in foreign lands, abroad, ζ ἐκ, out, + sea-urchin (see echinochrom), + χρῶμα, color. δημος, people.] Originating from without; not Same as *echinochromogen.

nome, in loreign lands, abroad, \(\climath{\chi}\), out, \(\frac{\chi_0}{\chi_0}\), people.] Originating from without; not endemic: said of diseases.

ecdemiomania (ek-dem'i-ō-mā'ni-\(\frac{\chi}{\chi}\)), n. [NL., \(\chi\) Gr. ἐκδημία, a going or being abroad (< ἐκδημος, abroad), \(+\mu\) μανία, madness.] A morbid impulse to travel unceasingly.

ecdemite (ek'de-mīt), n. [Gr. ἐκόημος, abroad, +-ite².] An arsenite of lead containing 8 per cent. of chlorin. It occurs in crystals and in massive forms, ranging in color from yellow to green: found in Sweden. Also called helioph-

ecesis (ē-sē'sis), n. [NL. *œcesis, < Gr. οἰκησις, habitation, < οἰκεῖν, inhabit.] The fixation of a migrating plant in a new habitat. The fixation of

In a word, Eccsis is the adjustment of a plant to a new habitat. It comprises the whole process covered more or less incompletely by acclimatisation, naturalisation, accommodation, etc.

F. E. Clements, Bot. Surv. Neb., VIL 50.

ecethmoid (ek-eth'moid), a. [ec- + ethmoid.] In ichth., same as *ecto-ethmoid. Science, March 1901, p. 379.

8, 1901, p. 379.

schelon, n. 2. Milit., one of the subdivisions of a command marching in echelon.—3. In optics, a set of glass plates placed one upon another, with the edge of each projecting slightly, stepwise, beyond the edge of the preceding one. The device, which is due to A. A. Michelson, is used for the production of differentian spectra of high dispersion and resolve. fraction spectra of high dispersion and resolving power.—Echelon diffraction grating. See *grating2.—Echelon spectroscope. See *gretroscope. echidnase (e-kid'nās), n. [Gr. ἐχιόνα, viper, + -ase.] A supposed temperature-raising sub-

stance analogous to diastases, found in viper venom

echidnotoxin (e-kid-nō-tok'sin), n. [Gr. εχιόνα, viper, + toxin.] A general poison found in viper venom.

echidnovaccine (e-kid-nō-vak'sin), n. [Gr. Ływa, viper, + E. vaccine.] Viper venom that has been heated for a few minutes to 75-85° C., and has thus lost its poisonous properties. The remaining solution has the properties of a venom vaccine.

echin. An abbreviation of *echinology.
echinal (e-ki'nal), a. [Gr. έχίνος, hedgehog,
sea-urchin (see echinus), + -al¹.] Pertaining or belonging to a sea-urchin.

echinastrin (ek-i-nas'trin), n. [Echinaster + -in2.] A red pigment found in certain inver-

-m-. A rea pigment found in certain invertebrates, as in starfishes.

echinate (ek'i-nāt), v.; pret. and pp. echinated, ppr. echinating. [Gr. ἐχτνος, hedgehog, +-ate².]

I. trans. To project at an acute angle to the start of 1. trans. To project at an acute angle to the axis of (a fiber), giving it a feathery or plumed appearance: said of the spicules in the axinellid type of sponge skeleton.

The spicules so placed are said to "echinate" the fibre. E. R. Lankester, Treatise on Zool., IL 140.

II. intrans. To project at an acute angle to the axis of a fiber: said of the spicules in a sponge skeleton.

carina. Its genera possess an elongate bivalved carapace with nodes in the cephalic region and one or more lateral carinse. They are mostly of Devonian age.

Bchinocaris (ek-i-nok'a-ris), n. [NL., \langle Gr. $\dot{\epsilon}\chi i\nu o c$, a sea-urchin, $+ \kappa a \rho i c$, (prob.) a shrimp.] The typical genus of the family Echinocaridæ. Echinocereus (e-kī-nō-sē'rē-us), n. [NL. (Engelmann, 1848), < Echino (cactus) + Cereus.

The name refers to its intermediate position between these two genera.] A large genus of globular or columnar cacti, very closely allied to *Cereus*, with which some authors unite it. It is distinguished by the spines, bristles, or wool arising from the bracteate ovary, short funnel-shaped flowers, and spiny globose or elliptical fruit. The species are native from Texas south and west. Some of them are usually found in the collections of cactus cultivators.

Echinochloa (ek-i-nok'lō-ä), n. [NL. (Palisot de Beauvois, 1812), in allusion to the bristly spikelets; ζ Gr. εχίνος, hedgehog, + χλόη, grass.] A genus of grasses, including about 12 species, widely distributed in warm and tropical regions. Four species occur in the United States, ranging from New York to Texas. They are usually tail annual grasses with broad leaves and a terminal inflorescence composed of several one-sided spikelike racemes. The European E. Crus-galli, the cockspur or barn-yard grass, is widely distributed as a weed in all cultivated regions except the extreme north.

echinochromogen (e-ki-nō-krō'mō-jen), n. [Gr. ἐχῖνος, sea-urchin, + χρῶμα, color, + -γενής, -producing.] A yellowish pigment found in echinococcosis (e-ki'nō-ko-kō'sis), n. [NL., < Echinococcus + -οsis.] Infection with Echinococcus the largel stage of a tenegroup which

Echinococcus + -osis.] Infection with Echinococcus, the larval stage of a tapeworm which lives in the dog; hydatid disease.

Echinocorys (ek-i-nok'ō-ris), n. [Gr. $\dot{\epsilon}\chi\bar{\nu}\nu\sigma$, sea-urchin, + $\kappa\delta\rho\nu\sigma$, a helmet.] A genus of spatangoid Echinoidea or sea-urchins. It has a large oval actinally high test, biporose ambulacra, oval peristome, and inframarginal posterior periproct. It is very common in the Upper Cretaceous formation. Same as Anarchytes.

Compared to the control of the proper control of the control of

Echinocotyle (ē-kī-nō-kot'i-lē), n. $\dot{\epsilon}\chi\dot{\nu}\nu\sigma_{c}$, hedgehog, + $\kappa\sigma\tau\dot{\nu}\lambda\eta$, a socket.] The typical genus of the family Echinocotylidæ. The metacestode stage of E. rosseteri, which is parasitic in the duck, occurs in the ostracode crustacean, Cypris cinereus. Blanchard, 1891.

Echinocotylidæ (ë-ki'nō-kō-til'i-dō), n. pl. [NL., < Echinocotyle + -idæ.] A family of tetracotylean Cestoidea having the acetabula armed and the rostellum furnished with one

or two circlets of hooklets. They are parasitic in birds. The typical genus is *Echinocotyle*. **Echinocystis**, n. 2. A genus of Lower Silurian cystideans of the family *Cryptocrinidæ*.—3. A genus of Silurian *Palæcchinoidea*, of the family Cystocidaroida.

echinoidean (ek-i-noi'di-an), a. and n. Same as echinoid.

echinologist (ek-i-nol'ō-jist), n. [echinolog(y) + -ist.] One who is versed in echinology or the study of echinoderms.

echinology (ek-i-nol'ō-ji), n. [Gr. $\dot{\epsilon}\chi\bar{\nu}\nu\sigma$, seaurchin, + - $\dot{\epsilon}\nu\chi\bar{\nu}\sigma$, $\dot{\epsilon}\nu\chi\bar{\nu}\nu$, speak.] That branch of zoölogy which treats of echinoderms.

echinophthalmia (e-ki-noph-thal'mi-ä), n. [NL., ζ Gr. ἐχτνος, hedgehog, + ὀρθαλμός, eye.] A form of inflammation of the eyelids characterized by stiffness and projection of the lashes. echinoplute (e-ki'nō-plöt), n. [NL. echinopluteus.] Same as *echinopluteus.

echinopluteus (e-ki-nō-plö'tē-us), n. [NL., (Gr. exivoc, sea-urchin, + NL. pluteus.] The pluteus, or free-swimming larva, of a sea-

Bchinopsis (ek-i-nop'sis), n. [NL. (Zuccarini, 1836), in allusion to the spiny character of the plant; ζ Gr. ἐχῖνος, hedgehog, + ὑψις, view.] A South American genus of Cactaceæ, marked by spherical or very short sharp-ribbed stems and very long tubed cereus-like flowers with the ovary and tube narrow-bracted. It is closely related to Cereus and has been combined with that genus by some authors. It consists of about 20 species. A number of them are in cultivation, for example, E. multiplez, E. Eyriesii, E. gemmata, and E. tubifora.

echinosphærite (e-ki-nō-sfē'rīt), n. [NL. Echinosphærites.] A cystid of the genus Echinosphærites, notably E. aurantium, a form

Echinosphærites. echinothuriid (e-kī-nō-thū'ri-id), a. and n. I. Of or pertaining to the family Echinothuriidæ.

II. n. A member of the Echinothuriidæ. echinothurioid (e-kī-nō-thū'ri-oid), a. Having characters similar to those of the Echinothu-

echinulation (e-kin-ū-lā'shon), n. [NL. *echisea-urchin, nulus, dim. of L. cchinus, sea-urchin, +
-ation.] A small spiny or prickly outgrowth.

Euphorbiaceæ. See Mallotus.

Echiostoma (ek-i-os'tō-mā), n. [NL., ⟨Gr. εχις, serpent, + στόμα, mouth.] A genus of deep-sea fishes of the family Stomiatidæ. E. barbatum is the common species. echiretin (e-ki-rē'tin), n. [Echi(tes) + Gr.

Pala scholaris (Echites scholaris of Linnseus). It melts at 52° C.

echitamine (e-ki-tam'in), n. [Echit(es) +

echitamine (e-ki-tam'in), n. [Echit(es) + amine.] Same as *ditaine.

echitein (e-kit'ē-in), n. [Echit(es) + -e-in.] A colorless dextrorotatory compound, C₄₂H₇₀O₂, contained in dita-bark, Pala scholaris (Echites scholaris of Linnæus). It crystallizes in needles or prisms melting at 195° C.



echitin (ek'i-tin), n. [Echit(es) + -in².] A colorless dextrorotatory compound, C₃₂H₅₂O₂, contained in dita-bark, Pala scholaris (Echites scholaris of Linnsons). It crystallizes in leaflets melting at 170° C.
echiurid (ek-i-ū'rid), n. Any member of the

family Echiuridæ.

echo, n. 7. In whist, a response to a partner's signal for trumps.—8. In bridge, a method of showing the leader how many cards his partner holds in the suit led, or of indicating that the third hand can trump the third round. The first is called the plain-suit echo, the second the down-and-out echo.—Echo sign, a frequent indication of epilepsy, being the repetition of words or phrases in speech or writing.—Flain-suit echo, in whist and bridge, a method of playing the pone's cards so as to show the leader how the former suit is distributed. See techo, n., 7.

[NL. echo, v. i. 4. In bridge, to show the leader genus how many cards the third hand holds in the guit led.

Characteristic of the echinosphærius...

See *limestone.

Bchinosphærites (e-ki'nō-sfē-ri'tēz), n. [NL., (Gτ εχίνος, sea-urchin, + σφαίρα, a ball, + -ites, E. -ite².] A genus of cystideans of the family Echinosphæritidæ. It is characterized by globose non-pedunculate calyx, central mouth, short ambulacral grooves, and anal pyramid, and is very abundant in the Lower'silurian of Russia and Scandinavia.

Bahinosphæritidæ (e-ki'nō-sfē-rit'i-dē), n. pl.

Cho-organ (ek'ō-ōr-gan), n. In organ-building, a section of the instrument, containing very delicate stops, inclosed in a thick swell-box, which is often placed at a distance from the rest of the organ, so as to be capable of echo-organ. rest of the organ, so as to be capable of echo or distant effects. Sometimes the echo-organ has a keyboard of its own in the console, but often it is played from either the swell or the choir keyboard through a special mechanism.

echopathy (e-kop'a-thi), n. [Gr. $\dot{\eta}\chi\dot{\omega}$, echo, + - $\pi a\theta ca$, $\langle \pi a\theta oc$, disease.] A neurosis characterized by the meaningless repetition of words or movements.

echophrasia (ek 'ō-frā'si-ä), n. [NL., \langle Gr. $\dot{\eta}\chi\dot{\omega}$, echo, + $\phi\rho\dot{\alpha}\sigma\iota\varsigma$, speaking.] Same as echolalia.

echinus, n. 5. [cap.] A genus of dicoty-echurin (ek'ū-rin), n. [Prob. for *echyrin, < ledonous plants belonging to the family $Gr. i\chi v \rho \delta c_{\lambda}$ strong, secure ($\langle i\chi evv, hold \rangle$, +-in².] Advestuff made by treating a mixture of 3 parts of flavin and 5 parts of pieric acid with 12 parts of nitric acid. It dyes wool a reddish vellow in an acid bath.

barbatum is the common species. ecitophile (e-sit' \hat{o} -fil), n. [Eciton + Gr. $\phi \lambda \hat{e}iv$, schiretin (e-ki-r \hat{o} 'tin), n. [Echi(tes) + Gr. love.] Any inquiline in the nests of ants of \hat{o} -p \hat{o} -p



eclectist (ek-lek'tist), n. [eclect-ic + -ist.] One who favors or who practises eclecticism. $N.\ E.\ D.$

eclipsareon (ē-klip-sā'rē-on), n.; pl. eclipsarea (-ä). [Irreg. < eclipse + -areon (for -arion, -arium).] An apparatus for illustrating eclipses.

eclipse, n.—(
cyclone. See
*Algol variab -Cycle of eclipses. See ★cycle1.—Eclipse ee ★cyclone.—Eclipse variable. Same as

eclipser (ē-klip'ser), n. A mechanical device for automatically interrupting the beam of light from a lighthouse.

A double or divided eclipser is used which occults the light during every alternate revolution.

Encyc. Brit., XXX. 256.

eclipsis (e-klip'sis), n. [L. eclipsis, < Gr. εκλειψις, a failing, cessation, non-appearance, eclipse: see eclipse.] 1. An eclipse.—2. Omission of a sound or letter; specifically, in Celtic gram., the suppression of the sound of a radical consonant when preceded by another of the same organ. J. O'Donovan, Irish Gram. p. 58.—3. A momentary loss of consciousness. ecliptical (ē-klip'ti-kal), a. Relating or pertaining to the ecliptic.
ecloge (ek'lō-jē), n. [NL. eclogē, < Gr. ἐκλογή, selection: see eclogue.] Selection; specifically, in rhet., a judicious selection of the most striking circumstances in describing anything. [L. eclipsis, < Gr. eclipsis (e-klip'sis), n.

cally, in rmet., a judicious selection of the most striking circumstances in describing anything. J. de Mille, Rhet., § 157.

ecmnesia (ek-mnő'si-ä), n. [NL., ζ Gr. ἐκ, out, + μιγους, memory.] Loss of memory of events occurring during a limited period of time, recollection of what has happened before or after that time being retained.

ecoid, n. See acoid. ecologic, ecological, ecology. The simpler and now the preferred spellings of ecologic, ecological, ecology. The simpler

An abbreviation of economics.

econometer (ē-kō-nom'e-ter), n. An apparatus for determining the economy of a steamboiler by measuring the amount of carbon di-

oxid (CO₂) which passes up the chimney. economic, a. 6. Relating to value as viewed from the standpoint of material welfare in contrast with values of other orders. Thus higher education may represent an economic loss to the community, although the social and moral advantages derived from it far outweigh that loss.—Roonomic botany, cure, freedom, etc. See *botany, etc.

freedom, etc. See *botany, etc.

6CONOMICS, n.—Dynamic economics, a proposed division of political economy dealing with changes in the production, distribution, and consumption of wealth, and the effects of such changes upon social organization.—

National economics, a type of political economy which exaggerates the economic significance of national boundaries, bases its deductions upon the idea of a self-sufficing state, and regards international economic relations as merely accidental. Most frequently, however, the term is used synonymously with political economy, in imitation of the German usage.—Pure economics, theoretical political economy, conceived of as an independent, abstract science: contrasted with economics viewed as an integral part of social science, and with the art of political economy, that is, a body of precepts for the guidance of political and social action.—Social economics, the science which deals with economic laws in their relation to social welfare. The term is frequently used as a synonym for political economy or economics.

6CONOMIZET, N. 2. Specifically—(b) In fogsignaling on British railways, a device by which

economizer, n. 2. Specifically—(b) In fog-signaling on British railways, a device by which the detonation of one track-torpedo on the rail by the passage of the engine-wheels re-moves the second one in series before the

wheels reach it.

economy, n. 5. In theol.: (a) The practical measures employed in giving effect to a divine dispensation. (b) The cautious presentation of doctrine, accommodating it to the feelings and prejudices of the hearers: used by J. H. Newman to describe the accommodated method (κατ'οικονομίαν) of the early fathers; in a bad sense, the system of withholding a in a bad sense, the system of withholding a large portion of gospel doctrine in teaching the mass of Christians.—Motor economy, in linguistics, the principle of ease of utterance. Scripture, Exper. Phonetics, p. 123.—Perceptive economy, in linguistics, the principle of the neglect, by language, of certain differences and the exaggeration of others, in or-der to bring the essential part of the sentence into promi-

Perceptive economy requires not only the suppression of needless distinctions but also the emphasis of needful ones.

Scripture, Exper. Phonetics, p. 123.

eclabium (ek-lā'bi-um), n. [NL., ⟨Gr. ἐκ, out, + L. labium, lip.] Eversion of the lip.

Bolampsia infantum, convulsions occurring in infancy, epileptic in nature or of reflex origin.

Bclectic school. See *school.

Bclectic school. See *school.

Bclecticize(ek-lek'ti-eīz), v. t.; pret. and pp. eclecticized, ppr. eclecticizing. [eclectic + ize.]

To make selections from: as, to eclecticize and harmonize all mythologies. Maurice.

Bclectic school. See *tension-line. F. E. Clements.

Bclecticized, ppr. eclecticizing. [eclectic + ize.] description, ⟨ἐκφράζειν, tell, recount, ⟨ἐκ, out, + φράζειν, speak.] A description or interpretation; a plain declaration or utterance.

Clements.

ecphrasis (ek'fra-sis), n. [NL., ⟨ Gr. ἐκφρασις, description, ⟨ ἐκφράζειν, tell, recount, ⟨ ἐκ, out, + φράζειν, speak.] A description or interpretation; a plain declaration or utterance.

ecphyaditis (ek"fi-a-di'tis), n. [NL., ⟨ Gr. ἐκφνάς (-φυαό-), an appendage, outgrowth (⟨ ἐκφύεσθαι, grow out), + -itis.] Same as appendicitis.

2. Same as measles. ecphyma, n.

ecphyma, n. 2. Same as measles.
ecphysis (ek'fi-sis), n. [NL., < Gr. ἐκφυσις, a growing out, an outgrowth, < ἐκφὶεσθαι, grow out, ἐκφὶειν, produce, bear, < ἐκ, out, + φὶεσθαι, grow, φἱειν, produce.] In crustaceans, a branch of any joint of an appendage, as a basecphysis. Irans. Linnean Soc. London, Zoöl., Feb., 1903, p. 448.
ecpyrosis (ek-pi-rō'sis), n. [NL., < Gr. ἐκπυροῦν, burn up, < ἐκ, out, + πυροῦν, burn, < πῦρ, fire: see pyre.] Destruction by fire.

The sect of Stoics adopted most fully the system of catastrophes destined at certain intervals to destroy the world . . . the Cataclysm, or destruction by water, which sweeps away the whole human race, and annihilates all the animal and vegetable productions of nature; and the Ecopyrosis, or destruction by fire, which dissolves the globe itself.

Sir C. Lyell, Princip. Geol., I. 13.

ecrasite (ek'ra-sit), n. [F. *écrasite, < écraser, crush, destroy (see acraze), + -ite (-ite²).]
The ammonium salt of trinitrocresol, experimented with in Austria as an explosive for charging shells. The same name is said to have been given to an explosive consisting of the so-called blasting-gelatin with picrate and either sulphate or hydrochlorate of ammonium.

of ammonium.

of ammonium.

fall to pieces, < é- (L. ex-) + crouler, shake,
fall to pieces.] A falling down or to pieces,
as a building, great masses of rock, or the
like; a land-slide.

ecstrophy, n. See exstrophy.

Ectal origin, valve. See superficial origin (under origin. 5 (b)), *valve.

ectally (ek'tal-i), adv. Externally; on the exterior; superficially.

ectatic a 2 Distructible

ectatic, a. 2. Distensible. ectenic (ek-ten'ik), a. [Gr. ἐκτενής, strained, zealous, eager, ⟨ ἐκτείνειν, stretch: see ectasis.] Subjected to tension, literally or figuratively;

strained.—Ectenic phenomena. See *phenomenon. ectepicondylar (ek-tep-i-kon'di-lär). a. [Gr. $\epsilon\kappa\tau\delta\varsigma$, without, $+\epsilon\pi i$, upon, $+\kappa\delta\nu\delta\nu\lambda\varsigma\varsigma$, condyle.] Situated just above the outer condyle dyie. I Situateu just above the outer complete of the humerus.—Ectepicondylar foramen, a perforation in the outer, distal portion of the humerus, found in some reptiles and characteristic of the anomodont reptiles.—Ectepicondylar process, a process just above the outer condyle of the humerus of such birds as gulls and anomalous.

ectepicondyloid (ek-tep-i-kon'di-loid), a. Same as *ectocondylar and *ectocondyloid.

ectethmoid (ek-teth'moid), a. and n. [Gr. έκτός, outside, + Ε. ethmoid.] I. a. External to the ethmoid bone.

II. n. A portion of the aliethmoid forming a plate on either side of the mesethmoid and usually constituting part of the anterior wall of the orbit. of the orbit. It appears as a transverse, vertical plate in the skull of birds and is frequently termed the antorbital or pars plana.

ectethmoidal (ek'teth-moi-dal), a. [ectethmoid Relating to the ectethmoid or antor-

bital plate. Also ecto-ethmoidal. ecthronym (ek'thrō-nim), n. [Gr. ἐχθρός, hostile, + ὁνομα, ὁνομα, name.] The name by which a people is called by its neighbors: opposed to autonym, the name by which the people call themselves.

ecthymatoid (ek-thim'a-toid), a. [ecthyma(t-)

+ -oid.] Resembling ecthyma.

ecthymatous (ek-thim'a-tus), a. [ecthyma(t-)
+ -ous.] Relating to or affected with ecthyma. ecthyrosis (ek-thi-rō'sis), n. [NL., < Gr. ἐκ, out, + θὐρα, door (see thyroid), + -osis.] A myxædematoid condition following excision of the thyroid gland.

other system grand. extris (ek-ti'ris), n. [NL., \langle Gr. $\dot{\epsilon}\kappa\tau\dot{\epsilon}\varsigma$, without, + $l\rho\iota\varsigma$, iris.] The external layer of the

Ectobiides (ek-tō-bī'i-dēz), n. pl. [Erroneous form for NL. *Ectobiidæ, < Ectobia + -idæ.] A -idæ.] A tribe of cockroaches of which Ectobia is the type. It contains species with spiny thighs, the last ventral plate of the female large and valveless, the supra-anal lamina of both sexes transverse and narrow, and the

egg-capsules with a longitudinal suture. This tribe corresponds to the subfamily Anaplectinæ of Saussure. Ectobranchiata (ek'tō- brang-ki-ā'tṣ̈), n. pl.

[NL.: see *ectobranchiate.] A group of regular Echinoidea having the mouth and anus at op-They are endocyclic and have external gills present. It includes the order Diademoida. Compare *Endobranchiata.

ectobranchiate (ek-tō-brang'ki-āt), a. [NL. ectobranchiatus, ζ Gr. ἐκτός, without, + βράγχια, gills: see branchiate.] Having an exsertile branchia, as the gastropod Valvata.

ectobronchium (ek-tō-brong'ki-um), n.; pl. ectobronchia (-ā). [NL., ⟨Gr. ἐκτός, without, + βρόγχος, windpipe.] In ornith., one of several branches given off laterally and dorsally from the mesobronchium or prolongation of the bronchus.

ectocalcaneal (ek'tō-kal-kā'nō-al), a. [Gr. εκτός, without, + NL. calcaneum + -all.] On the έκτός, without, + NL. calcaneum + -all.] On the outer side of the calcaneum or bone of the heel: specifically applied by Owen to the outermost of the ridges on the posterior side of the proximal end of the tarsometatarsus of a bird.

ectocarpaceous (ek"tō-kār-pā'shius), a. Belonging to the family of algæ Ectocarpaceæ.
ectochoroidea (ek"tō-kō-roi'dē-ā), n. [NL., ζ Gr. ἐκτός, without, + NL.choroidea, choroid.]
The external layer of the choroid.

ectocnemial (ek-tok-në'mi-al), a. [Gr. $\epsilon\kappa\tau\delta\varsigma$, without, $+\kappa\nu\eta\mu\eta$, tibia, $+-al^{2}$.] On the outer side of the tibia: as, the ectocnemial ridge, the outer of the two prominent ridges on the tibia of a bird, the other being the procumial ridge. ectocondylar (ek-tộ-kon'di-lār), a. [Gr. ἐκτός, without, + κόθυλος, condyle, + -ar^S.] Relating to the ectocondyle or outer articular face of such a bone as a femur: contrasted with

*entocondylar.— Ectocondylar depression or cavity, the hollow receiving the ectocondyle. ectocondyloid (ek - tō - kon'di - loid), a. [Gr. έκτός, without, + κόνουλος, condyle.] Same as

*ectocondylar.

ectocomagair.

ectocomagair.

ectocomagair.

ectocomagair.

ektőc, without, + NL. cornea, cornea.] The outer layer of the cornea.

ectodactylism (ek-tō-dak'ti-lizm), n. An abnormal absence of digits. Bateson, Study of Variation

Variation.

ecto-ethmoid (ek-to-eth'moid), n. [Gr. ἐκτός, without, + Ε. ethmoid.] In ichth., same as without, + prefrontal.

ectogenesis (ek-tō-jen'e-sis), n. [Gr. ἐκτός, outside, + γνεσας, origin, production.] The production of or the giving rise to structures from without: opposed to *endogenesis.

ectolateral (ek-tō-lat'e-ral), a. [Gr. ἐκτός, without, + L. latus (later-), side, + -all.] Situated on the outer side.

ectoloph (ek'tō-lof), n. [Gr. ἐκτός, without, + λόφος, crest.] The external ridge or crest on such an upper molar as that of a horse or thin carry. rhinoceros. From itarise the parastyle, mesostyle, and metastyle. See cut under *tooth.

ectomesoblast (ek-tō-mes'ō-blast), n. [Gr. εκτός, without, + E. mesoblast.] In embryol., the cell-layer or cells which have not yet differentiated into ectoblast and mesoblast proper.

ectonephridium (ek"tō-ne-frid'i-um), n.; ectonephridia (-ä). [Gr. ἐκτός, without, + NL. nephridium.] Ä nephridium of ectodermal origin, as in the annelids.

ectonuclear (ek-tō-nū'klō-ār), a. [Gr. ἐκτός, outside, + L. nucleus, kernal, nucleus.] Situated or occurring outside the nucleus of the cell: opposed to *endonuclear.

ectopagus (ek-top'a-gus), n.; pl. ectopagi (-jī). [NL., ζ Gr. ἐκτός, outside, + πηγνίναι (√παγ-). fix, fasten.] A double monster with lateral union of the trunk from the umbilicus upward.

ectoparenchyma (ek'tō-pa-reng'ki-mä), n. [NL., ζ Gr. ἐκτός, outside, + NL. parenchyma.] In trematodes, the outer portion of the parenchyma. Jour. Roy. Micros. Soc., Aug. 1903,

ectoperitoneal (ek'tō-per'i-tō-nē'al), a. [Gr. eκτός, outside, + περιτόναιον, peritoneum.] Relating to the surface of the peritoneum which is in contact with the viscera or the abdominal

ectophyte (ek'tō-fīt), n. [Gr. ἐκτός, outside, φυτόν, plant.] An external vegetable parasite. ectophytic (ek-tō-fit'ik), a. [ectophyte + -ic.] Of the nature of an ectophyte. More or fewer of their rootlets have their extremities invested by a weft of hyphal mycelium as an ectophytic mycorhiza.

Encyc. Brit., XXV. 439.

bladder.

ectoretina (ek-tō-ret'i-nā), n. [NL., < Gr. ἐκτός, outside, + NL. retina, retina.] The outer layer of the retina.

ectorganism (ekt-ōr'gan-izm), n. [Gr. ἐκτός, outside, + E. organism.] Same as ectoparasite.

ectorhinal (ek-tō-rī'nal), a. [Gr. ἐκτός, without, + ῥίς (ῥω), nose, +-al.] Situated on the outer side of the nose.— Ectorhinal fissure. See ****

ectosac (ek'tō-sak), n. [Gr. ἐκτός, outside, + σάκκος, sack, bag.] The membrane inclosing

ectosipho (ek-tō-sī'fō), n. [NL., < Gr. ἐκτός, without, + σίφων, L. sipho, a pipe: see siphon.] The outer siphuncular tube in the nautiloid cephalopods of the extinct family Endocerat-

ectoskeletal (ek'tō-skel'e-tal), a. [Gr. ἐκτός, without, + σκελετόν, skeleton, + -all.] Same as exoskeletal.

ectoskeleton (ek-tō-skel'e-ton), n. [NL., ζ Gr. εκτός, outside, + σκελετόν, skeleton.] Same as exoskeleton.

as acosación.

ectosolenian (ek-tō-sō-lē'ni-an), a. [Gr. ἐκτός, outside, + σωλήν, channel, pipe, + -ian.]

Having an extended neck-like orifice, as the foraminifer Lagena sulcata. Compare *entoso-like...

ectosome, n. 2. In cytol., one of the deeply staining granules eliminated from the chromatin of the nuclei of the germ-track during

matin of the nuclei of the germ-track during their karyokinetic divisions. Haeckel, 1902. ectosphenotic (ek'tō-sfē-not'ik), a. and n. I. a. [Gr. ἐκτός, without, + E. sphenotic.] Relating to the external portion of the sphenotic bone.

— Ectosphenotic process, a name given by Mivart to a small, slightly hooked process which arises on the sphenotic process of the skull in birds, just in advance of the articulation of the quadrate.

II. n. The ectosphenotic process.
ectosphere (ek'tō-sfēr), n. [Gr. ἐκτός, outside, + Iσφαίρα, ball.] În cytol., the outer or cortical zone of the centrosphere.
Ectospora (ek-tō-spō'rš), n. pl. [NL... ⟨ Gr.

zone of the centrosphere.

Ectospora (ek-tō-spō'rā), n. pl. [NL., < Gr. exrōc, outside, + σπορά, seed (spore).] A group of Sporozoa in which sporulation takes place at the close of the trophic period and the spore mother-cells or sporoblasts are formed at the periphery of the sporonts. It includes the Gregarinida, Coccidiidea, and the Hæmosporidia. Compare * Endospora. Mesnil.

ectostracal (ek-tos'tra-kal), a. Of or pertaining to the ectostracum.

ectostracum (ek-tos tra-kum), n.; pl. ectostracum (ek-tos tra-kum), n.; pl. ectostraca (-kä). [NL., ⟨ Gr. ἐκτός, outside, + ὁστρακον, shell.] The second layer of the integument of mites, lying between the epiostraca (-kä). tracum and the hypostracum. It consists, in the Hydrachnidæ, of a single layer of subcubical cells forming a dense tissue flat on both sides.

ectosylvian (ek-tō-sil'vi-an), a. [Gr. ἐκτός, outside, + Sylvian.] Situated at the outer side of the Sylvian sulcus.— Ectosylvian sul-

ectotheca (ek-tō-thē'kṣ), n. [NL., < Gr. ἐκτός, outside, + θ/κη, receptacle.] In certain hydroids, the external layer of the chitinous covering; an exotheca.

enting, an extenses.

ectothrix (ek' tō-thriks), n. [From the specific name of the fungus, Megalosporon ectothrix: $\langle Gr. \dot{\epsilon}\kappa\tau\delta\varsigma, \text{ outside}, +\theta\rho i\xi, \text{ hair (see def.).}]$ The form of the parasitic fungus causing tinea or ringworm which produces its spores on the outside of the heirs outside of the hairs.

ectotrachea (ek'tō-trā-kō'ā), n. [NL., ζ Gr. ἐκτός, outside, + τραχεία, windpipe.] The outer epithelial layer of the tracheæ of insects.

It is the so-called peritoneal membrane or invaginated epiblast: a true pavement epithelium.

A. S. Packard, Text-book of Entom., p. 432.

ectotrochlea (ek-tō-trok'lē-ā), n. [NL., < Gr. εκτός, outside, + NL. trochlea.] In ornith., a name sometimes applied to the articular facet eddy-current (ed'i-kur'ent), n. In elect., or trochlea on the outer distal end of the tarso-currents induced by alternating, rotating, or

metatarsus, with which the outer toe artic-

In both groups [Grebes and Divers] the tarso-metatarsus is much compressed laterally, and the ectotrochlea is much reduced, Proc. Zool. Soc. London, 1899, p. 1041.

Ectopic gestation. Same as extra-uterine pregnancy (which see, under pregnancy).

ectoplast (ek'tō-plast), n. [Gr. ἐκτός, without, + πλαστός, formed.] The outermost layer or membrane bounding and inclosing the cytoplasm of the plant cell.

ectopocystic (ek'tō-pō-sis'tik), a. [Gr. ἐκτοπος, out of the place, + κύστις, bladder, + -ic.]

Relating to or caused by malposition of the bladder.

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Proc. Zool. Soc. London, 1899, p. 1041.

Ectotrophi (ek-tot'rō-fī), n. pl. [NL., < Gr. ἐκτός, outside, + -τροφος, < τρέφειν, nourish.]

A group of thysanurous insects having external mouth-parts, and comprising the Machilidæ and Lepismatidæ.

Relating to or caused by malposition of the bladder.

ectotrophic (ek-tō-trof'ik), a. [Gr. ἐκτός, outside, + -τροφος, < τρέφειν, nourish.] Getting nourishment outside: in bot, said of fungi which envelop the roots of a plant without penetrating tem.

ectotrophous (ek-tot'ro-fus), a. Of or belong-

ectotrophous (ek-tot'rō-fus), a. Of or belonging to the Ectotrophi.

ectrimma (ek-trim's), n.; pl. ectrimmata (-ma-ts). [NL., < Gr. ἐκτριμμα, < ἐκτρίβειν, rub constantly, < ἐκ, out, + τρίβειν, rub.] An ulcer resulting from long-continued pressure or friction; a bed-sore.

ectrosis (ek-trō'sis), n. [Gr. ἐκτρωσις, miscarriage.] Abortion; abortive treatment of disease.

σάκκος, sack, pag.] The memoration ease. the ovum, or egg. ease. ectosaccal (ek-tō-sak'al), a. Of or pertaining explosion (ek-tō-sak'al), a. Of or pertai

ectylotic (ek-ti-lot'ik), a. Pertaining to or effecting ectylosis.

enecting ectylosis.

Ecus. An abbreviation of Ecuador.

écuelle (ā-kit-el'), n. [F.: see sculler2.] A low porringer, with handles, used for soup or broth, common in the middle ages: usually of wood, but sometimes of pewter or even silver.

écuelle (ā-kit-el'), v.t. [F. écuelle, a porringer or bowl: see *écuelle.] To grade or rub gently in a par lived seith. in a pan lined with rounded knobs, made for the purpose.

From the rind of the fruit, by a process known as ecuelling, which consists of gently rubbing the fruit on rounded projections arranged inside a brass basin, a very fine essence of limes is obtained.

Bulletin Roy. Gardens (Kew), May-June, 1891,

ecumene (ek'ū-mēn), n. [Gr. οἰκουμένη: see ecumenic.] The habitable part of the world; the part of the world inhabited by man.

Ecumenical patriarch. See *patriarch.
écurie (ā-kū-rē'), n. [F.: see equery, equerry.]
A stable; stabling.
ecurvature (ē-ker'va-tūr), n. [L. e-, out, + E. curvature.]
An outward curve.
ecurved (ē-ker'd'), a. [L. e-, out, + E. curved.]
Curved outward.

Curved outward.

OCZOMB, N.— Eczoma epixooticum. Same as foot and mouth disease (which see, under foot).— Eczoma marginatum, an eczomatous eruption occurring on the inner side of the thighs.

eczematoid (ek-zem'a-toid), a. [eczema(t-) +-oid.] Resembling eczema. eczematosis (ek'ze-ma-tō'sis), n.

zema(t-) + -osis.] One of several skin-diseases characterized by an abnormal secretion from the surface.

Edam cheese. Same as Dutch cheese (a) (which

see, under cheese1).
edaphic (ē-daf'ik), a. [Gr. ¿ðaþoc, base, ground, + ic.] Influenced or produced by the soil or +-ic.] Influenced or produced by the soil or its contents; arising from the soil: as, edaphic formations (see*formation); edaphic influences. The edaphic factors in climatology are the temperature, moisture, and sunlight favorable or unfavorable to the growth of the plant; the edaphic factors of soil-structure are those that more intimately relate to the growth of vegetation, such as its moisture, capillary structure, and soiluble chemical contents.

The water-supply is an important edaphic factor. A series of springs emerging from some rock-stratum rarely fails to alter the vegetation.

Geog. Jour. (R. G. S.), Aug., 1903, pp. 149, 151.

eddering (ed'ér-ing), n. [edder¹ + -ing¹.] 1.

The act of binding or strengthening a hedge at the top by an interlacing of flexible rods or osiers or other material.—2. The rods, osiers, the rods for the rods of the rods. etc., used for this purpose. [Prov. Eng. in both uses.]

eddoes, n.—Blue or nut eddoes. In the British West Indies, Xanthosoma violaceum, a large-leaved aroid plant with violet-blue petioles, widely cultivated for the sake of its edible starchy root-stock.

eddy, n.—Tidal eddy, a whirl or gentle local circulation in some corner of the ocean formed by the deflection of one or more tidal streams.

eddy-chamber (ed'i-chām'ber), n. A chamber in which, by jets or otherwise, a current of fluid is compelled to whirl in eddies, as in a spray-nozle. Yearbook U. S. Dept. Agr., 1899, p. 153.

moving magnetic fields in places where they are not desired and are objectionable because they consume energy and produce heat. To avoid or reduce eddy-currents, the iron of changing magnetic circuits is subdivided by lamination in the direction at right angles to the path of induced electromotive force (so as to give no closed circuits for the production of eddy-currents), and large copper conductors exposed to changing magnetic fields are stranded, that is, composed of a number of smaller conductors more or less insulated from one another. Reduction of eddy-currents is the cause of the lamination of the iron in transformers, induction-motors, and armatures of electric machines in general. Also called parasitic current and Foucault current. Eddying suspension

eral. Also caused parasitic current and rouceaut current.

Eddying suspension. See *suspension.

eddy-rock (ed'i-rok), n. A rock, generally a sandstone, which shows marked cross-bedding or flow-and-plunge structure.

edelweiss, n.— New Zealand edelweiss, either of two species of *Gnaphalium*, G. Colensoi and G. grandiceps: so called from the resemblance of their woolly, silverywhite flowers to the edelweiss, to which they are closely related botanically.

related botanically.

edema, n.—Angioneurotic edema. See *angioneurotic.—Collateral edema, serous infiltration into the tissues outside of an area of inflammation.—Flying edema, cedema fugax, evanescent swellings, due to efficient of fuid, occurring in various portions of the body: differing from urticaria in not being accompanied by itching or other signs of irritation.—Maitgnant edema, an edematous swelling extending rapidly and accompanied by gangrene and the subcutaneous formation of gaa.—Mucous edema, solid edema. Same as myzetema.

edentate, a. 3. In bot., having no teeth, as an entire leaf.

an entire lear.

edestin (ē-des'tin), n. [Gr. ἐδεστός, eatable (⟨ ἐδευ, eat), + -ɨn².] A crystallizable vegetable globulin found in wheat, rye, oats, etc.

Edestus (ē-des'tus), n. [NL., ⟨ Gr. ἐδεστής, an eater, ⟨ ἐδευ, eat: see eat.] A genus of extinct cestraciont selachians: known only by the leaves awabed symphysical dentitions (first content of the second selections). the large-arched symphysial dentitions (fin-spines according to some authors) which occur in the Carboniferous of North America, Russia, and Australia.

sia, and Australia.

edge, n. 7. In poker, same as (and a substitution for) age, 13.—To the edge, to the highest degree; in all completeness. [Colloq.]

edge-laid (ej'lād), a. Made of narrow strips laid together face to face, and with the edges up and exposed, as floors and table-tops: said also of built-up leather belting when to secure thickness and strength the elements of the belt run on their edges. belt run on their edges.

edge-molding (ej'mōl'ding), n. In arch., any molding which has as its chief or an important part a projecting sharp arris.

edge-plate (ej'plāt), n. A heavy iron plate placed against the inside of the rockers, or sills, of a heavy carriage-body to insure stability and strength.

edge-roll, v. t. 3. To roll (a flat strip, as of steel) in a coil or helix around a cylindrical rod with the flat face of the strip perpendicular to the axis.

edge-runner (ej'run'er), n. A form of grinding-apparatus or -mill for ores or similar material, in which a heavy disk or wheel runs in a circular path upon its edge in a pan or mor-tar. By its weight and the sliding motion of its edge as it revolves, it comminutes the matarial

edge-stitching (ej'stich"ing), n. In sewing-machine work, the process of sewing two parallel rows of stitches along the edge of the fabric to form a double edge-stitch. See multiple-needle sewing-machine.

edge-weed (ej'wēd), n. The fine-leafed water-hemlock or water-fennel, Enanthe Phellan-

edge-zone (ej'zōn), n. In corals, a fold of tissue extending over the theca and usually containing a cavity continuous over the lip of the calycle with the cœlenteron. In colonial forms the buds arise from this part. Annals and Mag. Nat. Hist., Jan. 1904, p. 22. edging, n. 5. In photog., a coat of albumen, gelatin, or india-rubber along the edges of a collodion-covered dry-plate: a protection to

collodion-covered dry-plate; a protection to the film during development. Generally the whole surface of the plate is given a substratum for the collodion.

edging-machine, n. 3. In sheet-metal work, a machine for turning and forming an edge in tinware and sheet-metal. By changing the forming-rolls it becomes a turner or turning-machine; by the use of still other rolls it becomes a burring-machine. See *beading-machine.

edgy, a. 3. Having contours which are too sharply defined: said of a picture.

edh (eTH), n. [e, auxiliary vowel (as in em, ess, etc.), + dh = th in this, that, etc., AS. d.] A name of the Anglo-Saxon letter d or δ representing the sound of th in that, this, edh (eTH), n.

enjoined.

edility, adility (ē-dil'i-ti), n. [L. adilitas, < adilits, edile.] The office of edile or the duties æditis, edile.] The office of edile or the duties pertaining to it.
edinol (ed'i-nöl), n. The trade-name of a

photographic developer, said to be m-amino-o-hydroxybenzylalcohol hydrochlorid,

 $\ddot{N}H_2C_6H_3(O\ddot{H})C\dot{H}_2OH.HCI.$

Edison effect. See *effect.

edition, n.—Acting edition. See *acting.
editor, n. 2. An exhibitor: in the phrase
editor of the games (translating the Latin editor
ludorum), an officer who superintended the
Roman public games. L. Wallace, Ben-Hur, p. 347.

p. 34./.
edobole (ē'dō-bōl), n. [Gr. olôoc, a swelling, + βόλοc, a throwing.] In phytogeog., a bolochore in which propulsion is effected by means of turgescence. F. E. Clements.

turgescence. F. E. Clements.

Edomite (ē'dom-īt), n. [Edom + -ite².] A descendant of Esau or Edom; one of the race which dwelt in southern Palestine (called Edom, or Idumæa), and which was bitterly hostile to the Isrælites, a kindred nation.

Edomitish (ē'dom-ī-tish), a. [Edomite + -ish.]

Pertaining to or characteristic of the Edomites,

the descendants of Esau and the hereditary enemies of the Israelites.

Edrioaster (ed'ri-ō-as'ter), n. Same as Edri-

edriophthalmate (ed'ri-of-thal'māt), a. Same as edriophthalmous. Annals and Mag. Nat. Hist., Feb. 1904, p. 154.

edriophthalmian (ed'ri-of-thal'mi-an), a. and n. I. a. Same as edriophthalmous.

II. n. Any individual of the order Edriophthalmian as each order any statement.

thaima; a sessile-eyed crustacean.

E. D. S. An abbreviation of English Dialect

educand (ed'ū-kand), n. [L. educandus, that is to be educated, (educare, educate.] One who is to be educated; a pupil or student.

We wish therefore that the educands be taught to ob-

educatory (ed'ū-kā-tō-ri), a. [educate + -ory.] Educative; that has an educating effect or influence; as, an educatory regimen.
educement (ē-dūs'ment), n. [educe + -ment.]
The act of drawing out or developing.
Edwardian (ed-wär'di-an), a. [Edward + -ian.] Of, pertaining to, or characteristic of any one of the sovereigns of England named Edward or his reign: as, the Edwardian period; Edwardian architecture. Edwardian architecture.

Edwardsian (ed-wärd'zi-an), a. and n. [Edwards + -ian.] I. a. Pertaining to Jonathan Edwards or his opinions (*Edwardsianism,

which see).

II. n. One of the school of American theologians which has followed the lines laid down by Jonathan Edwards (1703-58). The members of the school differ widely from the founder and among themselves. For their general view, see *Edwardsianism.

Edwardsianism (ed-wärd zi-an-izm), n. The

system of modified Calvinism which is the outgrowth of the teachings of Jonathan Edwards (1703-58). The majority of its defenders recognize the following tenets: all moral character lies in the will; man's ability to choose does not lessen his dependence on the interposition of the Holy Spirit; without such interposition man, by nature depraved, infallibly chooses evil; God's decrees are consistent with human liberty; the governmental theory of the atonement. Also called New England Theology and New-light Divinity.

E. E. An abbreviation (b) of Early English; (c) of Electrical Engineer.

E. E. and M. P. An abbreviation of Envoy Extraordinary and Minister Plenipotentiary.

Extraordinary and Minister Plenipotentiary.

601, n.—Black eel, Anguilla australis, of Australia and New Zealand.—Commom eel. Same as black keel.—
Fresh-water eel, a name applied to eels of the genus Anguilla, which live chiefly or wholly in fresh water.—Green eel, Murena afra, an eel of the family Murenaides, found in Australian waters.—Long-necked eel, an eel of the family Derichthyide.—Mother of eels. See mother!.—Silver eel. (a) Murenesoz cinereus, of New South Wales. Also called sea-eel. (b) Leptocephalus visioni of Australia. (c) Congromurena habenata of New Zealand.—Symbranchoid eel, an eellike fish of the family Symbranchide. Also known as rice-eel.

eel-cake (ēl'kāk), n. Small eels fried to-

gether and turned out of the pan like a flat tor.

cake. Wallin.
eel-cat (el'kat), n. One of the channel catfish, Ictalurus anguilla.

representing the smooth, etc.

edictally (ē'dik-tal-i), adv. By edict or public proclamation: as, to be edictally notified or enjoined.

edictally (ē-dil'i-ti), n. [L. ædilitas, (Scotia to North Carolina, and also found in California, Europe, and Asia.

eel-pick (êl'pik), n. An eel-spear. eel-picker (êl'pik'er), n. One who fishes with

In its [the Broad's] deep mud eels abound; and the celpicker in his little punt, . . . is a common object on the flats.

G. C. Davies, Norfolk Broads, xxvi.

celskin, n. 2. In ceram., a peculiar glaze of a brownish-yellow tint, seen on old Chinese eelskin, n. porcelain.

eel-trap (êl'trap), n. In mech., a screen or net used in water-pipes to prevent the entrance of fish which might otherwise pass into machines and clog their valves.

eel-trunk (el'trungk), n. A box with holes in it in which eels are kept alive until they are wanted. [Prov. Eng.]

eel-worm (ël'wèrm), n. Any one of the free-living nematoid worms of the family Anguillulidæ (which see). Yearbook U. S. Dept. Agr.,

1897, p. 568. E. E. T. S. An abbreviation of Early English Text Society.

efemeral, a. and n. A simplified spelling of ephemeral.

effect, n. 9. In art, an accidental or unusual combination of colors, lights, or forms which especially excite the interest of a painter and form a suitable motive or key in painting or etching.

It is evident that such perfectly favorable effects are likely to be rare, but they do occur, and the business of the imaginative artist is either to seize upon them when they do occur, or imagine them in their absence.

P. G. Hamerton, in Portfolio, 1886, p. 152.

likely to be rare, but they do occur, and the business of the imaginative artist is either to seize upon them when they do occur, or imagine them in their absence.

P. G. Hamerton, in Portfolio, 1886, p. 152.

Budde affect, the effect, not due to heating, of the chemically active rays of the sun in causing expansion of dry chilorin gas: observed and described by Budde.—Coefficient of Petiter effect, a numerical constant denoting the size of the Petiter effect, the heat developed in a circuit consisting of more than one metal, other than that due to the overcoming of the resistance of the circuit, divided by the product of the current and the absolute temperature.—Doppler's effect, the effect, upon the apparent frequency of a train of waves, of a movement of the source of the wave-motion toward or away from the observer; Doppler's principle (see principle). Thus there is a displacement of lines in the spectrum of a star toward the violet when the earth and star are approaching each other, and vice versa—Edison effect, a phenomenon of the vacuum of incandescent lamps, consisting of an electric glow near the ends of the filament, caused by a current flowing through the gases between the terminals or from a third terminal and the negative leg of the filament.—Faraday effect, the rotatory effect of a magnetic field upon the plane of polarization of light.—Ferranti effect, in elect, the rise of voltage occurring in underground cables under certain conditions due to the effect of distributed capacity and self-induction.—Fly-wheel effect, a property common to all revolving wheels, or balanced masses, of storing up energy when accelerated by a force greater than the average and of giving up this energy when retarded.—Hluminating effect in elliuminating power of a source of light or of a group of such sources. It is measured by comparing the brightness of a surface at the position in question with the brightness of a surface at the position in question with the brightness of a surface at the position in question with the

tor.—Vacuum effect, the effect produced by a vacuum, or the amount of pressure less than that of the atmosphere which exists in an evaporating apparatus, as in sugarbolling.—Young effect. See recurrent *wision.—Zeeman effect, the effect of a strong magnetic field upon the lines in the spectrum of a beam of light passing through it. The lines of the spectrum are widened and subdivided, the light of the components due to the division being polarized.

effect-carbon (e-fekt'kär'bon), n. See electric

Effective head, pressure, resistance, section, utility, value. See *head, etc.—Mean effective pressure. See *pressure.

efferential (ef-e-ren'shal), a. [efferent + -i-al.]
That carries outward or away; that serves to carry off; of the nature of an efferent: as, an efferential blood-vessel.

eel-pump (ēl'pump), n. A portable pump for efficacity (ef-i-kas'i-ti), n. [L. efficacitas, < forcing eels and fish out of water-pipes. [Rare.]
eelskin, n. 2. In ceram., a peculiar glaze of eacy; effectiveness. Browning.

efficiency, n.—Apparent efficiency, in elect, the ratio of the power-output divided by the apparent powerinput. (See apparent *power.) If the apparent powering reater than the true power, the apparent efficiency is greater than the true efficiency and equals the product of power-factor and true efficiency and equals the product of power-factor and true efficiency. Efficiency of luminous efficiency is the ratio of the light-giving radiation of a source of light to its total energy. Radiant efficiency or luminous efficiency is the ratio of the light-giving radiation of a source to the total radiation. The method formerly employed in the determination of this important constant consisted in measuring the total radiation received upon the face of a thermopile or bolometer placed at a given distance from the source of light and comparing the same with the radiation reaching the heat-measuring instrument when a glass cell containing water or a solution of alum was interposed in the path of the rays. If such a cell were capable of transmitting all the light-giving radiation and that alone, the ratio of the effects thus obtained would be the radiant efficiency. It was known at an early day that this assumption was not warranted, and a correction, thought to be approximately accurate, was applied. It has recently been shown that even with this correction the values obtained for the radiant efficiency are much too large, and more rigorous methods have been devised, as follows: (1) Langley's method. The first of these methods consists in dispersing the light from the source by means of a prism of rock-salt or fluorite, which is transparent to all wave-lengths, and in determining the distribution of intensities throughout the spectrum thus obtained. If a curve be then drawn having as abscisse wave-lengths and as ordinates

from the source. If a vertical line vertical line (r) be drawn at 76µ, which corresponds to the boundary of the visible spectrum in the red, this line will di-vide the in-closed area in-to two parts.

WAVE LENGTHS

vide the inclosed area into two parts,

Efficiency of a Light Source.

one of which (v) represents the light-giving energy, the
other (c) that portion of the energy which is non-luminous.

The ratio of the light-giving area to the total area of the
curve will then be the radiant efficiency of the source of
light. The first experimenter to obtain such curves was
S. P. Langley. (2) Angström's method. Another method
of measuring the radiant efficiency of a source of light is
due to Knut Angström. An opaque screen is mounted
in such a position as to cut off all rays lying beyond the
red end of the visible spectrum, and the remaining radiation is assembled upon the face of a bolometer by means
of a cylindrical lens. The ratio of this quantity to the
total radiation, measured by the same instrument, gives
the radiant efficiency of the source of light. The radiant
efficiency of such sources of light as have been measured
by the two methods thus described is given in the following table. The values obtained by the integration of the
energy-curves and by Angström's method are marked respectively L and A.

Source.	Efficiency.	Method.	Observer.
Hefner lamp Acetylene flame Acetylene flame Nernst lamp Mercury arc Geissler tube	.0096 .056 .033040 .036047 .20	A A L A L L	Ångström Ångström Nichols & Coblentz Ingersoll Nichols Drew

While other sources of light have not as yet been measured by these methods, their relative efficiencies are approximately known, and by comparison with the above data we know that the radiant efficiency of ordinary oil- and gas-fiames is about .01, that of the glow-lamp from .01 to .03, and that of the electric are from .04 to .08. Gross efficiency. The term efficiency is likewise used to express the ratio of the energy in light-giving form developed in unit time by a source to the energy of combustion of the fuel which it is necessary to consume in order to maintain the source during that time. The efficiency thus defined takes into account the total heat-loses in the production of light. In the case of the fiames of candles and of oil-lamp the heat lost by convection and conduction is very large compared with the total radiation from the fiame. In the case of gas-fiames the heat of combustion of the coal necessary to produce the gas to maintain the flame, as com-While other sources of light have not as yet been measured

pared with the luminous efficiency

pared with the luminous. In computing the gross efficiency of electric lights the heat of combustion of the fuel used to generate the current supplied to the lamps or the equivalent amount of energy, whatever be its source, is to be taken. In the case of a steam-plant for electric lighting the losses by dissipation of heat in the boiler, engine, dynamo, and lead-wires, together with the loss by convection and conduction in the electric lamp itself, all enter into the computation of the gross efficiency. Whatever process for the production of light may be employed, the amount of energy dissipated for the purpose of obtaining luminous radiation is very great, and the gross efficiency of luminous fames used in lighting ranges from .001 to .002, while the gross efficiency of electric lamps under the best existing conditions for the production of power is little if any above these figures. Electric efficiency. It is convenient in the case of the electric light to express the efficiency in watts per candle—a method not comparable with the energy-ratio defined above, but useful for the comparison of the various types of lamp used in electric lighting. The electric efficiency of the ordinary lamp ranges between four watts per candle and three watts per candle, according to the temperature of the filament, that of the arc-light from two watts per candle to one watt per candle (mean spherical candle-power), while the efficiency of the Nernst lamp is intermediate between that of the arc and the glow-lamp.

Luminous efficiency. See *efficiency of a source of light.—Projected efficiency, the hypothesis that, in the process of evolution, existing individuals and their present interests are by natural selection subordinated to the interests of a much larger number of future individuals. Kidd, Western Civilization, p. 66.—Radiant efficiency, the ratio of the heat converted into work by a thermal engine to the total amount of heat supplied to it.—Transmission-efficiency, the ratio of the powe

earthwork representing some object, especially



some animal. Mounds of this form are particularly frequent in the northwestern United

efflagration (ef-la-grā'shon), n. [L. ef- for ex, out, + flagrare, burn: see flagrant.] In geol., a burst of flame or incandescent material from

effluviography (e-flö-vi-og'ra-fl), n. [L. effluvium, outflow, + Gr. -γραφια, < γράφειν, write.] In photog., the action of the silent electric discharge upon a sensitized gelatinobromide plate. An image is obtained in complete darkness and may be developed in the usual manner. Woodbury, Encyc. Dict. of Photog., p. 179.

effort, n.—Tractive effort, the force required or exerted to draw a given load along a road or track at a given speed; in locomotives, the draw-bar pull.

speed; in locomotives, the draw-bar pull.

effraction (e-frak'shon), n. [NL. *effractio(n-), < L. effringere (pp. effractus), break open: see effracture.] A breaking-open or breaking-in; house-breaking; burglary.

effractor (e-frak'tor), n. [ML. effractor, < L. effringere, break open: see effracture.] One who breaks in by force; a house-breaker; a burglar. Bouvier, Law Dict.

effranchisement (e-fran'chiz-ment), n. [effranchise + -ment.] The act of effranchising, or the state of being effranchised or invested with privileges.

with privileges.

effuse, v. II. intrans. To flow, as a fluid, through an aperture or through a porous partition the openings in which are large compared with the diameter of a molecule.

pared with the diameter of a molecule.

Effusion of gases. (b) In physics, the passage of gases through a perforated diaphragm the openings in which are very large as compared with the diameter of a molecule. The phenomena of effusion differ from those of diffusion (which is the passage of a gas through a membrane the pores of which are of molecular dimensions) in some important respects. In effusion, the rate of flow of a gas or mixture is inversely as the square root of the density and the composition of a mixture remains unchanged: in diffusion, each component of a mixture is transmitted at a rate inversely proportional to the square root of its molecular weight and the composition of the mixture is therefore changed.—Thermal effusion of gases, the effusion of gases through a porous diaphragm when the pressures on the two sides are the same but the temperatures vary. The gases move from the cold to the hot side of the partition.

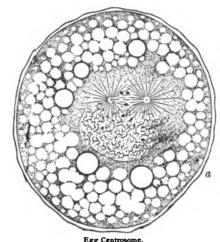
effusion-plug (e-fū'zhon-plug), n. A small section of glass tubing, closed at one end by a platinum plate in which there is a minute hole, egg-covering (eg'kuv"er-ing), n. The covering

which serves as a stopper to a vessel from which a gas is allowed to escape in determining its density by the rate of effusion. M. W. Travers, Exper. Study of Gases, p. 281.

effusive. I. a.—The effusive period, in the solidification of an igneous rock, that period in which it cools after having been poured out on the surface of the earth: at this time the finer-grained portion or ground-mass of the rock is usually crystallized.

II. n. In petrog., a volcanic rock poured out on the surface of the earth: contrasted with intrusive rocks. Also extrusive. Amer. Jour. Sci., Aug., 1903, p. 121.

gg1, n. 3. In cricket, no score; zero; a duck's egg. [Slang.]—Egg apparatus, the three nucleated cells at the micropylar end of the embryo-sac of plants, two of which form the synergide and the third the cosphere. See oesphere and synergide.—Egg centrosome, a centrosome belonging to the egg, as distinguished



Fertilization of the egg of Nevers, from a section.

Magnified 400 times.

magnined 400 times.

Appearance presented soon after the entrance of the spermatozoon, showing the minute sperm-nucleus at a, the germinal vesicle disappearing, and the first polar initiotic figure forming. The
empty spaces represent deutoplasm-spheres (slightly swollen by
the reagents), the firm circles oil-drops. (From Wilson's "The
Cell.")

from the sperm centrosome.—Immediate egg, in rotifers, a parthenogenetic summer egg.—Philosopher's egg. See philosopher.—Resting egg. Same as winter *egg.—Summer egg, one of the parthenogenetic eggs produced by rotifers in summer, the large form giving rise to females and the small to males. In some entomostracans, as Daphnia, one of the parthenogenetic eggs which are produced in summer and develop rapidly in the brood-pouch. Compare winter *egg.—Warry egg, the shell of Amphiperas ventricosum, which is egg-shaped and has a wart-like tubercle at each end.—Winter egg, in rotifers, a thick-shelled egg, produced in autumn and probably impregnated by the male: it remains inert all winter and develops in the spring; in some entomostracans, one of the fertilized eggs, produced in autumn, which remain inactive all winter in the detached ephippium and develop in the spring. Compare summer *egg.egg-assorter (eg'a-sôr'tèr), n. A simple form of egg-tester. [Eng.]

egg-bath (eg'bath), n. In tanning, a bath of egg-yolks.

egg-boiler (eg'boi'ler), n. An arrangement for boiling water so that eggs may be easily cooked in it, particularly on the table.

egg-bound (eg'bound), p. a. A condition in birds in which they are unable to expel the fully developed egg, either on account of its excessive size or because of the presence of some disease.

egg-breaker (eg'brā'ker), n. Same as egg-

eye and a lighted candle.

of the egg shows its freshness.

egg-cement (eg'sē-ment"), n. A sticky fluid by which the eggs of some animals, such as by which the eggs of some another.

means of gearing.

eglantine, n. 3. A stone of the hardness and grain of marble. Goldsmith, Nat. Hist., I. vi. N. E. D.—Eglantine gall. Same as belonged.

of the egg-masses of many insects. It varies greatly in character and, in general, is secreted by the accessory glands of the oviduct. Also called egg-case, egg-pod, egg-sac.

Eggertz test. See *test1.
eggette (eg-et'), n. [Irreg. egg + -ette as in briquette.] A lump of artificial fuel of the shape and size of a hen's egg. [Trade-name, U. S.]

egg-fruit (eg'fröt), n. In the Bahamas, the fruit of Achras serpentaria (Lucuma serpentaria of Humboldt, Bonpland, and Kunth). It is of the size of a small egg, has a thick skin,

Jour. Sci., Aug., 1903, p. 121.

eg, n. and v. A simplified spelling of egg.
egerlid (e-jē'ri-id), n. and a. I. n. A member of the family Egeriidæ.

II. a. Of or belonging to the lepidopterous

II. a. Of or belonging to the lepidopterous

II. a. Of or Ageriidæ or Ageriidæ. p. 183.

egg-mite (eg'mīt), n. Any predatory mite which feeds on the eggs of insects.
egg-oil (eg'oil), n. The oleaginous material obtained from the yolks of hens' eggs. It contains olein and palmitin, with lecithin, cerebrin, neurine, etc., and is used in dressing alumitanual leather alum-tanned leather.

egg-parasite (eg'par'a-sit), n. Any insect of the family Chalcididæ or the family Proctotrypidæ which lays its eggs in



Egg-plant blight, flea-beetle. See *blight, *flea-beetle.

egg-powder (eg'pou'der), n. The trade-name of a prepared form of casein obtained from skim-milk, offered for use as an article of food.

**Yearbook U. S. Dept. Agr., 1900, p. 623.

**egg-roller (eg'rō-ler), n. A form of machine for making oval briquettes of the shape and size of a hen's egg from refuse from collieries. or dumps. The small particles are cemented together by a tar or pitch and molded and compacted under pressure.

page-sac (eg'sak), n. 1. The silken cocoon in which the eggs of most spiders are deposited and in which they hibernate. Constock, Manual of Insects, p. 41.—2. In earthworms, one of the reniform sacs which open into the fundle wheel shade and the same statement. nel-shaped ends of the oviducts; a receptacu-lum ovorum.—3. In crustaceans, as some co-pepods, one of the pair of egg-containing receptacles at the hinder end of the body.

gg-sleeker (eg'slē'ker), n. A molder's tool having a face in the shape of a segment of an annular ring, used for giving a smooth or sleek surface in facing or finishing the hollow faces of curved molds.

of curved molds.

egg-Sunday (eg-sun'dā), n. The Sunday before Shrove-Tuesday.

egg-timer, n. 2. An apparatus for the automatic cooking of eggs. It consists of a vessel containing boiling water and a series of three or more wire baskets suspended over the water. On placing an egg in a basket the basket sinks into the water and keeps the egg there for a fixed time. When the time has elapsed the basket automatically rises out of the water and stops the process of cooking. Each basket is adjusted to lift the eggs it may contain out of the water at the end of one, two, or three minutes as desired.

egg-whip (eg'hwip'), n. A hand-tool or machine for beating or whipping eggs, sponge, or batter; an egg-beater. The tool is a slender balloon-shaped form of wire fitted with a handle; the machine is a cylinder of wires, or two sets of wire paddlesheld in the hand and made to revolve at a high speed by means of gearing.

by which the eggs of some animals, such a certain frogs, are united with one another.

egg-coal (eg'köl), n. A size of broken coal suitable for use in a hot-air furnace or the like, as distinguished from a smaller size called 'chestnut' used in a kitchen range or stove, and a still smaller size called 'pea-coal.'

N. E. D.—Eglantine gall. Same as bedegar.

eglestonite (eg'1-ston-īt), n. [Named after Professor Thomas Egleston (1832-1900) of Columbia University.] An oxychlorid of mercury (said to be Hg₆Cl₃O₂) occurring in yellow to brown ison etric crystals: found at Terlingua,

ego-altruism (ē 'gō-al'trö-izm), n. Altruism conjoined with self-respect; the subjective aspect of morality.

Subjectively, morality is self-respect, and that desire for the good opinion of others, and that endeavour to deserve it, which Mr. [Herbert] Spencer has called ego-altruism. Giddings, Inductive Sociol., p. 257.

egocentric (ë-gō-sen'trik), a. [L. ego, I, + centrum, center, + -ic.] Having or regarding self as the center of all things; centering in self; egoistic.

The heliocentric system was expanded out of an antecedent geocentric system, itself the offspring of a democentric system which sprang from an earlier ethnocentric system born of the primeval egocentric cosmos of inchoate thinking.

19th An. Rep. Bur. Amer. Ethnol., 1897-98, p. 831.

ego-idea (ē'gō-ī-dē'ā), n. In psychol., the empirical or psychological idea of the self.

Besides the idea of one's present corporeal and mental ego, there is still a third member participating in the usual ego-idea. This is the very essential total idea that has been deposited in memory by the succession of one's most important mental and physical experiences in the past. T. Ziehen (trans.), Introd. to Physiol. Psychol., xi.

egols (eg'ōlz), n. pl. A name of the potassium-mercury salts of o-nitro-phenol-, o-nitro-cresoland o-nitro-thymol-p-sulphonic acids. former, called phenegol, is best known. The others are cresegol and thymegol. They are

egomania (ē'gṣ-mā'ni-ā), n. [L. ego, I, + Gr. μανία, madness.] An exaggerated egotism, amounting to an actual mental disorder.

Under sociability are lumped together desires so diverse as the craving for companionship, and the eagerness for appreciation, the one effective, the other egotic.

E. A. Ross. in Amer. Jour. of Sociol., IX. 589.

egressive (ē-gres'iv), a. [L. egressus, pp. of egredi, go out (see egress), + ive.] That proceeds forth or downward from an ultimate source or cause, as in tracing some process of development or evolution.

We may follow two methods [in working out a problem]
... the regressive and the egressive. The regressive... starts
from the completed process and proceeds backward . . .
in search of the factors and the forces which have produced the completion; and . . . cannot terminate till the
sufficient reason or the ultimate cause be reached. If we
follow the egressive method we simply reverse the procedure and reason downward.

A. M. Fairbaira, Philos. Christ. Relig., p. 40.

gret, n.—Cattle egret, a small heron, Bubulcus ibis, formerly abundant in Egypt and frequently confused with the sacred ibis.

with the sacred ibis.

egurgitate (ē-gèr'ji-tāt), v. t.; pret. and pp.
egurgitate (ē-gèr'ji-tāt), v. t.; pret. and pp.
egurgitated, ppr. egurgitating. [L. egurgitare,
⟨ē, out, + (LL.) gurgitare, ⟨gurges (gurgit-),
gulf.] To throw up or out.

Egyptian bath-sponge. Same as sponge-gourd.— Egyptian bondage, a state of servitude or bondage as oppressive and degrading as that of the Israelites in Egypt.—
Egyptian brown, clover, cotton, etc. See *brown,
n., etc.— Egyptian cross, the ankh (which see).— Egyptian ophthalmia. Same as *trachoma.— Egyptian
thorn. See thorn.— Egyptian type, letters, or figures. See antique, n., 8.— White Egyptian corn. Same
as *kchicken-corn.

Egyptianism (ē-iin'shien.ism)

as *chicken-corn.

Bgyptianism (ē-jip'shian-izm), n. [Egyptian + -ism.] The characteristics of the Egyptians; also the inclination to adopt Egyptian customs.

Bgyptianize (ē-jip'shian-iz), v. t.; pret. and pp.

Egyptianized, ppr. Egyptianizing. [Egyptian + -ize.] 1. To make similar to an Egyptian in appearance and customs. — 2. To treat (clay) by a potented process involving the vector. in appearance and customs.—2. To treat (clay) by a patented process involving the use of tannic acid, in order to give it increased adhesiveness and tenacity. See *Egyptianized clay.—Egyptianized clay, clay treated by a special process discovered by E. G. Acheson, of Niagara Falls, by which it is rendered more soluble and plastic and its tensile strength is increased 50 per cent. in the burned form and 350 per cent. in the sun-dried form, by the addition of a small proportion of tannin; an effect assumed to be similar to that produced by the use of straw in the manufacture of bricks by the ancient Egyptians. Sci. Amer., April 25, 1903, p. 311.

Baypticity (ē-jip-tis'i-ti), n. [Egyptic+-ity.]

The quality of belonging to Egypt.

Egyptologic (ē-jip-tō-loj'ik), a. [Egyptolog-y+-ic.] Of or pertaining to Egyptology.

Egyptologue (ē-jip'tō-log), n. [Gr. Alyuπτος,

Ehrlich's side-chain hypothesis. See *im

munity, 5., with cut. ehuawa (ā-hö-ä'wä), ahuawa (ā-hō-ā'wä), n. [Hawaiian; also ahuawa.] In the Hawaiian Islands, Cyperus lævigatus, a sedge, very widely spread in the tropics, from which the natives of the island of Niihau make fine, very flexible, highly-prized

An abbreviation (a) of East India; (b) of East Indian

E. I. C. An abbreviation of East India Com-

egocentricity (ē-gō-sen-tris'i-ti), n. [egocentric; specifically, an extreme and abnormal state of self-concentration or egoism.

Ziehen limits the hysterical constitution to emotional instability, epocentricity, craving for attention, peculiar predilections, disorders of imagination and attention (fantastic instability).

Amer. Jour. Psychol., July-Oct., 1903, p. 100.

ego-idea (ē'gō-i-dē'ā), n. In psychol., the empirical or psychological idea of the self.

ing the surface of both valves. It occurs in Silurian rocks.

Siluran rocks.

cicosane, n. See *icosane.

cicosylene (ī-kos'i-lēn), n. [Also cikosylene;
Gr. cikoot, twenty (= L. viginti, twenty: see
twenty), + -yl + -ene.] A colorless liquid
hydrocarbon, C₂₀H₂₈, obtained from paraffin.
It boils at 314-315° C. and is also called

E. I. C. S. An abbreviation of East India Company's Service.

Rider-down cloth, a heavily napped wool or cotton knitted fabric of thick texture, in plain and fancy colors and effects, used for blankets, cloakings, women's sacks, robes, etc.

amounting to an actual mental disorder.

egomaniac (ē-gō-mā'ni-ak), n. One who exhibits egomania.

egotic (ē'gōt-ik), a. [Irreg. ego + -t- + ic.] Self-regarding; egoistic.

Todos of an eidolor; eidolon-like.

eidoloclast (ī-dol'ō-klast), n. Same as idoloclast.**

To be an eidoloclast is not a pleasant office, because an invidious one. . . It is prudent to devolve the odium of such an office upon the idol himself. Let the object of the false worship always, if possible, be made his own eidoloclast.

De Quincey, Goethe as Reflected in "Wilhelm Melster."

eidolon, n. 3. One of the small floating winged figures frequently found in Greek art, especifiqures (i-mē'ri-ä), n. [NL. (Schneider, 1875), ally on Greek vases. They are sometimes quite human, with wings; sometimes half human, half bird, like harpies, and of both sexes. They are supposed to represent the human soul, being similar to the Egyptian concention.

aæ, characterized by the absence of sporocysts. With scarcely an exception, the species are nothing but the schizogenic generations of Coccidia belonging to other scope or moving-picture machine.

eidophone (i'dō-fōn), n. [Gr. εlδος, form, + φωνή, sound.] A cylindrical box, with a lateral tube and mouthpiece, over the open end of which sheet-rubber is fastened. Sand or lycopodium powder dusted on the rubber assumes various geometrical designs called voice-figures when one sings into the instrument. Athenseum, Feb. 4, 1893.

eidophusikon (i-dō-fō'si-kon), n. [Gr. εlδος, form, + φωνικόν, neut. of φυσικός, natural: see physic.] A kind of magic lantern or stereopticon constructed by an Alsatian painter, Philip de Loutherbourg, in London about 1780.

A set of colored slides was made for it by the painter Gainsborough. The machine and slides were exhibited at the Grosvenor gallery in London in 1885.

The eidophusikon, as the Angle Alsatian called it, seems the Angle Alsatian called it, seems the Angle Alsatian called it, seems into the proposed to cregesis.

A subjective method of interpretation by introducing one's own opinions into the original: opposed to cregesis.

eisegetical (is-ē-jet'i-kal), a. Relating to or of the nature of eisegesis.

eisegetical (is-ē-jet'i-kal), a. Relating to or of the nature of eisegesis.

eisegetical (is-ē-jet'i-kal), a. [cjaculate + intelligent of the proposed to cregesis.]

The eidophusikon, as the Anglo-Alsatian called it, seems to have emotionne his fellow Academician much in the same way as a fine violin.

W. Armstrong, in Portfolio, N. S., IX. 54.

eidoptometry (i-dop-tom'e-tri), n. [Gr. εἰδος, form, + ὁπτ(ικός), of seeing, + -μετρία, < μέτρον, measure.] Determination of the degree of acuteness of vision.

eidotrope (i'dō-trop), n. [Gr. εἰδος, form, + τρόπος, a turning.] A device for exhibiting, by means of revolving disks, certain phenomena which arise from persistence of vision. The form of the instrument is similar to that of the ordinary chromatrope, but the revolving disks carry perforated patterns in gauze, lace, etc.

eidotropic (i-dō-trop'ik), a. Pertaining to or exhibited by means of the eidotrope.

Eifelian (i-fē'li-an), a. and n. [Eifel in Germany.] I. a. In geol., designating a subdivision of the Middle Devonian in the Eifel region in Germany and Belgium regarded by Germany medicaits as acquired by the collections of the middle Devonian in the Eifel region in Germany and Belgium regarded by German geologists as acquired by the collections. German geologists as equivalent to the Calceola group of the Rhineland. It is underlain by the Coblenzian and overlain by the Givetian.

II. n. The Eifelian subdivision.

Egypt, + -λογος, < λέγειν, speak.] An Egyptologist.

E. H. P. An abbreviation of electrical horse power.

E. H. P. An abbreviation of electrical horse ichthyologist.] A genus of fishes of the family Gymnotidæ, found in Central and Southern

ily Gymnotidæ, found in Central and Southern America. E. humboldti is the common species. eight. I. a.—Right-hour movement, a movement which aims to establish, either through the combined action of trade-unions or by compulsion of law, a workingday of no more than eight hours in all industries.

II. n.—In eights. (a) In bibliography, having eight leaves to the sheet: applied to early printed books. (b) In meter, in lines of eight syllables. (c) In companies or 'teams' of eight. (d) In printing, containing eight pages only: said of a type-form or a printed and folded sheet.

eight-coupled (āt'kup'ld), a. Having eight driving-wheels coupled by side-rods. The driving-wheels of heavy freight or consolidation engines are often coupled in this manner, there being four wheels on each side coupled together.

eighteen, n.— In eighteens, containing eighteen pages: said of a type-form or a printed and folded sheet; in bibliography, an octodecimo.

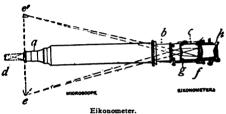
eight-square (āt'skwār), a. and n. I. a. Having eight corners; octagonal.

II. n. An octagon or an octagonal solid.
eight-square (āt'skwār), v. t. [eight-square, a.]

lo make octagonal. eikonogen (i-kon'ō-jen), n. [Gr. εἰκων, an image (see icon), + -γενής, -producing.] The trade-name of the sodium salt of amido-βnaphthol-monosulphonic acid, used in photog-

raphy as a developer.

eikonolatry, n. Same as iconolatry, eikonometer (i-kō-nom'e-ter), n. [Gr. εἰκών, image, + μέτρον, measure.] A device for measuring the size of an object under the microscope, or for obtaining the magnifying power of a missescope. of a microscope.



A, object-glass, and b, eyepiece of the microscope; c, elkonometer; d, object examined; c, e', apparent size and position of object seen through microscope; f, image of the image at e, e', reduced to one tenth the size; at f, is a micrometer scale read by measured; f', in the eyepiece, f', by which the image at e, e' can be measured; f', lens.

dx, characterized by the absence of sporocysts. With scarcely an exception, the species are nothing but the schizogenic generations of Coccidia belonging to other genera and species.

eisne, a. See eigne.
eisodic, a. Same as esodic.
ejaculative (ē-jak'ū-lā-tiv), a. [ejaculate +
-ive.] Of the nature of an ejaculation; ejacu-

-ive.] Of the nature of an ejaculation; ejaculatory: as, an ejaculative expression.

eject, n. 2. In projective geom., the figure composed of straights and planes made in projecting the original.—Axial eject, a figure composed of planes obtained by projecting from a fixed straight (the projection-axis) an original composed of points.

ejection, n. 3. In philos., the mental act of forming an eject.

ejectivism (ē-jek'tiv-izm), n. [ejective + -ism.] In philos., the doctrine that the formation of ejects is an indispensable factor in the formation of the consciousness of personality. Baldwin.

Baldwin

ejectivity (ē-jek-tiv'i-ti), n. [ejective + -ity.]
The fact of being an eject or inferred existence. G. J. Romanes.

ejector, n. (d) In sheet-metal work, an attachment to a press for throwing out the finished stamped or drawn object while the die is rising and before the operator or the feed-motion places the next blank in position. The push-out plate used with presses employing double dies is a form of ejector. (See double dies, under *die.) The stripper, on the other hand, is not an ejector, since it releases the work from the die only, without removing it from the press. See stripper.

ejector-blade (ē-jek'tor-blād), n. In the Mergenthaler linotype, a device which ejects the slug from a mold into a stick or galley; on a Dow machine, one which ejects types, after they are assembled, into a stick or galley.

ejector-washer (ē-jek'tor-wosh'ér). n. A tank or receptacle in which sand for filter-beds is washed or scoured by streams of water from

eka-aluminium (ek'a-al-ū-min'i-um), n. See

eka-boron (ek'a-bō'ron), n. In chem., the name given by Mendeléjeff to an element, the existence of which he predicted, occupying the same position in his fourth series that boron does in the second. When this element was subsequently discovered it was named

ekaha (ā-kā'hā), n. [Native name.] In the Hawaiian Islands, the bird's-nest fern, Neot-topteris Nidus, a fern with large simple fronds

usually growing as an epiphyte on forest trees. See bird's-nest, 1 (c).

eka-iodoform (ek"a-ī'ō-dō-fôrm), n. Iodoform with which 5 per cent. of formaldehyde has been mixed.

eka-silicon (ek"a-sil'i-kon), n. In chem., the name given by Mendeléjeff to an element, the existence of which he predicted, occupying the same position in his fifth series that silicon does in the third. When this element was subsequently discovered it was named germanium

nium.

eka-tellurium (ek'a-te-lū'ri-um), n. In chem., a supposed new element, announced by Grünwald, occupying the same position in Mendeléjeff's eleventh series that tellurium does in the seventh, and presumably identical therefore with the austriacum of Brauuer. As yet there is no confirmation of the existence of either of these hypothetical substances.

eke, n. (c) An added structure. (d) In agri., an obloog stack

an oblong stack.

Ricks are built either as long ekes or round stacks.

J. Wrightson, Farm Crops, p. 127.

ekkyklema, n. See *eccyclema. Elachistidæ (el-a-kis'ti-dē), n. pl. [NL., < Elachista + -idæ.] A family of tineoid moths containing many large and prominent genera, some of its forms having considerable eco-nomic importance.

elæagnaceous (el'ē-ag-nā'shius), a. Belonging to the plant family Elæagnaceæ.

Elæocarpaceæ (e-lē-ō-kār-pā'sē-ē), n. pl. [NL. (Lindley, 1836), < Elæocarpus + -aceæ.] A family of dicotyledonous choripetalous plants of the order Malvales, typified by the genus of the order Malvales, typified by the genus Elæocarpus. They were formerly included in the Tiliaces, but differ from that family chiefly in the fact that the 2-celled anthers open by terminal pores, and in the absence of mucilage-cells in the bark and pith. There are 8 genera and about 120 species, half of which belong to Elæocarpus and 44 to Sloanea. They are chiefly natives of the tropics or of temperate regions of the southern hemisphere, a few growing in China and Japan. They are trees or shrubs with undivided leaves and flowers in racemes, cymes, or clusters. The wood is often valuable. See breakaz, 1, maqui, and hedgehog-fruit.

elæocarpaceous (e-lê-ō-kok'kä, n. [NL., \(\) Gr. \(\) \(\) \(\) Gr. \(\) \(\

Elæocrinidæ (e-lē-ō-krin'i-dē), n. pl. [NL., Elæocrinus + -idæ.] A Devonian family of blastoid Echinodermata or blastoids, characterized by having the posterior deltoid divided into two parts by an anal plate and the anus distinct from the posterior spiracles. elæoleic (e-lē-ē-lē'ik), a. Pertaining to elæoleic

elæoleic (e·lē-ō-lē'ik), a. Pertaining to elæoleic acid.—Elæoleic acid, a liquid acid. C₁₇H₃₀O₂, which is found as a glyceride together with elæomargaric acid in the oil from the seeds of Elæococca vernicia. It is also formed when the isomeric elæomargaric or elæostearic acid is heated to 175°-180°C. In a tube filled with hydrogen.
elæomargaric (e-lē-ĕ-ō-mār-gar'ik), a. [Gr. Łλαον, oil, + μαργαρ(ίτης), a pearl, + ic. Cf. margaric.] Noting an acid, a colorless compound, C₁₇H₃₀O₂, prepared by the saponification of elæococca oil with alcoholic potassium hydroxid. It melts at 41°C. and is readily converted into elæoleic acid, with which and with elecostearic acid it is isomeric. with elmostearic acid it is isomeric.

elsoplast¹, eleoplast (e-lē' δ -plast), n. [Gr. $t\lambda a \iota \sigma v$, oil, $+\pi \lambda a \sigma \tau v_{\zeta}$, formed.] 1. In cytol., a

highly refractive globular body consisting of granular protoplasm and containing drops of oil.—2. A minute body of unknown function

oil.—2. A minute body of unknown function arising within the endochrome of certain diatoms. It may be genetically connected with the pyrenoid. Mereschkousky.

elæosaccharum (e-lē-ō-sak'a-rum), n. [Gr. ἐλαιον, οil, + σάκχαρον, sugar.] A mixture of an essential oil and sugar; oil-sugar.

elæostearic (e-lē-ĕ-sr'ik), a. [Gr. ἐλαιον, οil, + στέαρ, suet, + -ic.] Noting an acid, a colorless compound, C₁₇H₃₀O₂, prepared by the saponification of elæococca oil which has been exposed to sunlight. It melts at 71° C., is isomeric with elæomargaric and elæoleic acids, meric with elæomargaric and elæoleic

here with easonargaric and easoned actus, and is converted into the latter by heating. blæothesium (e-lē-ō-thē'si-um). n.; pl. elæothesia (-si-ā). [L. (Vitruvius), $\langle Gr. i\lambda auo\theta \ell auov, \langle i\lambda auov, oil, + \theta \ell auc, putting.]$ In an ancient Roman or Greek bathing establishment, the room where the bathers were anointed after bathing. bathing.

Elagatis (el-a-gā'tis), n. [NL.] A genus of carangoid fishes related to Seriola, distinguished by the presence of the finlet behind the dorsal and anal fins.

Riadic ethers. Same as *elaidic esters.—Elaidic esters, the esters of elaidic acid.

Riadin test, a test applied for the identification of particular fixed oils, depending upon their reaction with nitric acid which converts olein into elaidin.

acid which converts olem into elaidin.

elaidinic (el'ā-i-din'ik), a. [elaidin + -ic.]

Having reference to elaidin.—Elaidinic acid, a substance isomeric with oleic acid.

Elaphebolia (el'a-fē-bō'li-ā), n. pl. [Gr. 'Ελα-φηβόλος, an epithet of Artemis: see Elaphebolos.] A feast of Artemis Elaphebolos in Phocis. It is mentioned by Plutarch in con-

in Phocis. It is mentioned by Plutarch in connection with the city of Hyampolis.

Elaphebolion (el'a-fē-bō'li-on), n. [Gr. Ἑλα-φηβολιών, < Ἑλαφηβόλια: see Elaphebolia.] The ninth month of the Greek calendar, from the middle of March to the middle of April, approximately. In this month the Elaphebolia

Relaphebolos (el-a-feb'ō-los), n. [Gr. ἐλαφηβό-λος, shooting deer, ⟨ ἐλαφος, deer, + βάλλειν, throw.] The deer-slayer: an epithet of Artemis. **Elaphoglossum** (el'a-fō-glos'um), n. [NL. (Schott, 1834), ⟨ Gr. ἔλαφος, a deer, + γλῶσσα, the tougue. The fertile fronds are fancifully compresed to a deer's tournel. A real defined the tongue. The fertile fronds are fancifully compared to a deer's tongue.] A well defined genus of tropical polypodiaceous ferns. The fronds are simple, tongue-like, glabrous to densely scaly, from a few inches to two feet high, usually clustered from a decumbent rhizome, and are of two sorts, the fertile somewhat contracted and wholly covered on the lower surface with sporangis. There are about 150 species, generally distributed throughout the tropics, alike in having the simple or forked veins free and parallel, directed nearly at right angles to the margin.

nearly at right angles to the margin.

Elaphomycetacese (el'a-fō-mī-sē-tā'sē-ē), n.
pl. [NL., < Elaphomyces (Elaphomycet-) +
-acese.] A family of subterranean ascomycetous
fungi, named from the single genus Elaphomyces, having the ascocarps inclosed in a
distinct peridium. The spores form a powdery mass at maturity.

mass at maturity. elapine² (el'a-pin), a. [Elaps + -ine¹.] Relating to the snakes of the genus Elaps and their relatives, usually considered as forming the family Elapidæ. elapine² (el'a-pin), n. [Elaps + -ine².] A poisonous constituent of snake-poison. elasmometer (ē-las-mom'e-ter), n. [elas(tic) + Gr. $\mu \epsilon \tau \rho o \nu$, measure.] A form of interferometer for the measurement of the elasticity of flavure

(which see, with cut).—2. In physics, a curve such that the reciprocal of 6888 the radius of curvature at any point is proportional to the dis-tance of the point from a straight line. Also called *elastic curre*.

line. Also called elastic curve.

elasticin (e-las'ti-sin), n. [elastic Elastica Curves. + in².] Same as elastin.

Elasticity of elongation, the resistance to stretching or compression of a body subjected to longitudinal stress. Its value is denoted by Young's modulus. See modulus of elasticity, under modulus.—Elasticity of favure, the resistance to bending manifested by a body subjected to transverse stress.—Elasticity of liquids, the resistance to change of volume under compression shown by liquids. Liquids at rest offer no resistance to change of form but their elasticity of volume is in general very high and the

return to their original volume when relieved from stress is complete.—Elasticity of volume. Same as elasticity of bulk.—Equation of elasticity, the characteristic equation of a perfect gas; an equation of condition expressing the relation between elastic pressure, volume, density, and temperature prevailing in the ideal gas; the combined laws of Boyle, Mariotte, Gay-Lussac, and Charles; the equation of Van-der-Waals.—Rotational elasticity, the power of a medium to resist rotational elasticity, the power of a redum to resist rotational elasticity, the power of a redum to resist rotational elasticity, the power of a redum to resist rotational elasticity, described to certain conceptions of the luminiferous ether.

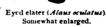
elastoidin (ë-las-toi'din), n. [elast(ic) + -oid + -in²] An albuminoid belonging to the skeletins, found in certain cartilaginous structures of a shark (Mustelus lævis).

elastose (ē-lās'tōs), n. [elast(in) + -ose.] An albumose derived from elastin.

an American elaterid beetle,
Alaus oculatus, so called on
account of two large eye-like
spots on its thorax. Its larve
live in decaying wood.

elaterics (el-a-ter'iks), n. pl. [NL. *elatericus, Gr. ἐλατήρ, a driver, ζ ἐλαύνευ, drive, set in motion: see elastici.] The science of the elasticity

of solids. C. S. Peirce.
elaterist: (e-lat'e-rist),
n One who holds a n One who notes a particular theory of elasticity: used by Boyle with reference to his law. See quotation under elastic, a., 2. elatinaceous (ē-lat-i-nā'-



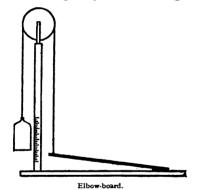
Belongingto the plant family Elashius), a. tinaceæ.

elbow, n. 7. In carriages, the rail that forms the upper part of the frame of the quarter.

—False elbow, a piece of timber shaped to fit the elbow of a carriage-body. It is used as a form for the roll or elbow-cushion.— Miners' elbow, enlargement of a bursa at the point of the elbow, due to pressure, occurring in miners who work in low tunnels resting the weight of the body on the elbow.

elbow-bit (el'bō-bit), n. A coach-bit with long cheek-pieces which have a double-elbow bend below the mouth piece.

elbow-board, n. 2. In psychol., an apparatus for determining the just noticeable (passive)



motion of the forearm, that is, the just noticemotion of the forearm, that is, the just notice-able change of articular sensation at the elbow. Also called arm-board. The forearm and hand (palm down) are laid upon the hinged board, which is thus brought to the horizontal: the elbow-joint rests directly above the hinge. The experimenter then gently draws down the weight, and thus raises the for-ward end of the board. The observer reports the first indication of articular sensation at the elbow.

elbow-spring (el'bō-spring), n. A carriage-spring slightly curved. The spring-plates are graduated toward one end, and the other end is bolted to the body, it being used as a spring body-loop.

ecu toward one end, and the other end is boiled to the body, it being used as a spring body-loop.

elder², n.—American elder, Sambucus Canadensis. See cut under Sambucus.—Blood-elder, the dwarf elder. Sambucus Ebulus.—California elder. Same as pale **elder.—Common elder. Same as American **clder.—Dwarf elder. (a) See elder². (b) Same as wild elder (a) (under elder²). (c) Same as wild elder (b) (under elder²).—German elder, the Old World elder, Sambucus injura. See elder², bour-tree, hautboy, 2, and Judastree, 3.—Ground-elder, the dwarf elder, Sambucus Ebulus.—Horse-elder. Same as horseheal.—Marsh-elder. See marsh-elder. The name is applied to all the species of Iva.—Mexican elder, a tree 25-30 feet high, Sambucus Mexicana, of the Southwestern United States, Mexico, and Central America, with creamy-white flowers, small, blackish, shining, Juico berries, and light, soft, fine-grained wood. It makes a fairly good shadetree in the dry regions of Mexicon and Lower California, and the berries are eaten by the Mexicans and Indians.—Mountain-elder. (a) The red-berried elder. (b) Same as pale **elder.—Pale elder, a tree 30-50 feet high, Sam-





Pale Elder (Sambucus plauca). (From Sargent's "Manual of the Trees of North America.")

bueus glauca, common on the Pacific slope from British Columbia to southern California, and extending inland to the Sierras and the Wasatch Mountains. The flowers are yellowish white; the berries blue-black, whitened with a mealy bloom, rather sweet blue-black, whitened with a mealy bloom, rather sweet and juicy; the wood light, soft, weak, and coarse-grained. It is sometimes planted for ornament.—Paraley-elder, paraley-leaved elder, the Old World elder, Sambucus nigra, especially a form with narrowly lobed or cut leaflets.—Prickly-elder, the Hercules-club or angelica-tree, Aralia epinosa.—Redberried elder, Sambucus pubens, a North American shrub of wide distribution across the continent, differing from other species by its conical inflorescence and red or scarlet drupes.—Sweet elder. Same as American*elder.—Water-elder. See water-elder.

elder-blow (el'der-blō), n. The common American elder, Sambucus Canadensis.

elder-rob (el'der-rob), n. The juice of the fruit of the Old World elder, Sambucus nigra. Also called elder-roob.

Also called elder-roob.

elect. An abbreviation (b) of electrical; (c) of the Latin electuarium, electuary.

une Lauin electuarium, electuary.

election, n.— Judge of election, one of a body of voters appointed to receive, count, and record the ballots cast at an election and to report the same to the proper authorities.— Supervisors of election, in United States law, the persons appointed by the United States Circuit Court judge to supervise the registration of voters and the holding of elections for members of the House of Representatives. The law providing for such supervisors was repealed in 1894.

electionary (ē-lek'shon-ā-ri), a. [election + -aryl.] Relating or pertaining to the exercise of one's right to vote at a popular election, or the casting of one's vote at such an election.

election-committee (ē-lek'shon-ko-mit'ē), n.
In parliamentary or municipal elections in the
United Kingdom, a committee of voters voluntarily formed to promote the election of a particular candidate.

ticular candidate.

electric. I. a.—Electric arc, bath, blue, calamin, capstan, car, etc. See *arc, etc.—Electric chorea.

Same as *chorea electrica.—Electric efficiency. See *efficiency of a source of light.—Electric inertia. See inertia.—Electric motor. (a) See electrica endomosis.—Electric see electrical endomosis.—under endomosis.—Electric steel process. See *process.—Electric sunstroke. Same as electric *prostration.

II. n. 2. A railway or car operated by electricity: usually in the plural.

electricity: usually in the plural.

Electrical fire, kiss, syntony. See *fire, etc.
electricity, n.—Atmospheric electricity, the free
electricity present in the atmosphere of the earth and
supposed to be equivalent to the sum of the small charges
of electricity accompanying the particles of dust and atmospheric vapor, and especially of those on the electrified
ions or electrons of Elster and Geitel and the free corpuscles of J. J. Thomson. Both positive and negative electrons exist in the atmosphere, and the charges are equal,
so that the general character of any electric reaction depends on the preponderance of positive or negative electrons. The upper layers of air are usually electrified
positively relative to the lower layers; the ground is ordinarily negative. The descending air of the foelm contains more positive than negative electrons. At a lower
cloud-level of about two thousand meters Ebert finds the
electronic charge greater than at the earth's surface. At
the earth's surface, under normal conditions, there are
from one to three electrostatic units of charge per cubic
meter of air, and somewhat more free positive than free
negative units. This latter difference diminishes with
altitude, and at three kilometers the charge is four electrostatic units per cubic meter for each kind of electricity.

— Atom of electricity, natural unit of electricity,
in phys. chem., terms sometimes used to denote the quantity of electricity which is carried by a single ion of a
univalent element, such as an atom of hydrogen.

— Cleavage electricity, electrification produced
by the cleavage of crystalline substances. Contact
electricity requires energy, this energy must be supplied
when producing electricity, the electrification of the air
electricity electricity, the electrified condition of
the earth as distinguished from that of the atmosphere.

It is usually negative and more intense in equatorial than
in polar regions. It was formerly supposed to have originated in the earth either by chemical, th Electrical fire, kiss, syntony. See *fire, etc.

electricize (ē-lek'tri-sīz), v. t.; pret. and pp. electricized, ppr. electricizing. To charge, as a Leyden jar; to electrify.

Then electricise the bottle and place it on wax.

Franklin, Experiments and Observations on Elect., p. 16.

electricute (ē-lek'tri-kūt), v. t. [Also electro-cute; absurdly formed from electricity) + (exe)cute.] To execute or put to death by electricity. [Recent and colloq.] electricution (ē-lek-tri-kū'shou), n. The act of electricuting. Also electrocution. [Recent and colloq.]

electrification, n. 2. The substitution, upon a railway system, of electric for steam or other motive power; the conversion of a steam, cable, or horse-railway into an electric railway.

electrion (ē-lek'tri-on), n. [Gr. ἡλεκτρον, amber (repr. electricity), + ἰων, going (see ion).]

In phys. chem., a name given by Lord Kelvin to an atomic quantity of negative electricity. According to it each atom of matter has positive electricity distributed uniformly through its mass, and, concentrated at one or more points, in general within it, atomic quantities of negative electricity, to which Lord Kelvin gives the name "electrions."

Nature. Oct. 22, 1968, p. 611.

Nature, Oct. 22, 1908, p. 611.

electro-anæsthesia (ē-lek'trō-an-es-thē'si-ā), n. Insensibility to electrical stimulation. electro-analysis (ē-lek'trō-a-nal'i-sis), n. In chem., the method of determining the amounts of metals in solutions by causing the metal to be deposited, by electrolysis, in a form convenient for weighing.

The differences observed in the electro-analysis of mercury from a potassium cyanide solution are due to an attack of the platinum disc serving as cathode and to the solubility of platinum in potassium cyanide.

Elect. World and Engin., March 28, 1908, p. 580.

electro-analytical (ē-lek'trō-an-a-lit'i-kal), a. In chem., utilizing, or related to, methods of analysis by electrolysis, and especially by the electrolytic deposition of metals.

Electro-analytical methods, on account of their simplicity and quickness, are becoming more and more used in practice.

Elect. World and Engin., Nov. 21, 1903, p. 853.

electrocardiogram (ē-lek-trō-kār'di-ō-gram), n. Arecord showing the variations in the electric currents in the body which occur with the pulsations of the heart. Sci. Amer., March 5,

*electricution

electrocyanide (ē-lek'trō-sī'a-nid), a. ploying cyanides and electrolysis.—Electrocyanide process, a cyanide process in which the solution of the gold is aided by electrolysis.

nide process, a cyanide process in which the solution of the gold is aided by electrolysis.

electrode, n.—Brush electrode, a wire brush connected with one of the poles of an electric battery, used in the therapeutic application of electricity to the body.—

Calomel electrode, in phys. chem., a non-polarizable or reversible electrode consisting of metallic mercury covered with the insoluble mercurous chlorid (calomel) and with the chlorid of the other metal indicated by the conditions. Suppose the other metal to be sinc; then, if a current passes from the electrode to the electrolyte, chlorin ions from the mercurous chlorid go into solution, leaving their equivalent of metallic mercury; if the current passes from electrolyte to electrode, chlorin ions from the zinc chlorid combine with mercury to reproduce mercurous chlorid. All succeeding currents in either direction meet precisely the same conditions, and the electrometive force is constant.—Indifferent electrode, in electrotherap., the electrode which serves to complete the circuit. The one employed to make the therapeutic application is called the therapeutic electrode.—Roversible or non-polarizable electrode, in phys. chem., a metallic plate standing in a solution of a salt of the metal. When a current passes from the plate into the solution, part of the metal is dissolved; when the current passes from the solution to the plate, part of the metal of the solution is deposited on the plate: the chemical process in one case is precisely the reverse of that in the other. Moreover, the two currents in the two opposite directions have precisely the same electromotive force, assisting or opposing the current; that is, the electrode is non-polarizable.

electrodeless (ë-lek'tröd-les), a. Without electrodes: said specifically of a vacuum-tube through the glass of which no metal terminals are inserted, or of the electrical discharge within such a tube when the latter is placed.

are inserted, or of the electrical discharge within such a tube when the latter is placed

within such a tube when the latter is placed in a suitable oscillatory field.

electrodiagnosis (ē-lek'trō-dī-ag-nō'sis), n.

The locating and determination of disease by testing the reaction of nerves and muscles to

electro-ethereal (ē-lek'trō-ē-thē'ri-al), a. Of or pertaining to the ether, considered as the medium to the disturbance of which electrical phenomena are ascribed.— Electro-ethereal theory of light, a theory of light, propounded by Kelvin (1903), according to which the electrons in a source of light are vibrators that derive energy by collisions with surrounding atoms and radiate it in the form of etherwayes.

electrics (ē-lek'triks), n. The science of electricity.

n. An instrument devised by Rontin for
electricute (ē-lek'tri-kūt), v. t. [Also electromeasuring the difference of phase between the electromotive force and current in a threenhase system.

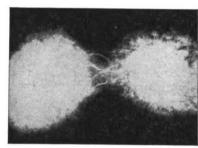
electrogram (ē-lek'trō-gram), n. A diagram exhibiting continuously the electric condition

of the atmosphere at any station.
electrograph, n. 3. In photog., a photograph
of an electric spark. See the extract.

of an electric spark. See the extract.

Perhaps it is not exactly correct to describe this as a photograph, since light plays no part in its production. It may more properly be called an "electrograph." The manner in which such representations of electric discharges are produced is as follows: An ordinary photographic plate, inclosed in two light-proof paper bags (as used in X-ray work), is placed film upward on a metal plate, which is insulated. The pointed dischargers of an induction coil, in this case one giving a 10-inch spark, are placed a few inches apart, touching the paper envelope. The circuit is then closed, and a single discharge brought about by holding the hammer of the coil and letting it go suddenly. The spark in its passage through the sensative film decomposes it. The negative is then developed in the ordinary way.

Sei. Amer. Sup., March 11, 1905, p. 24405.



Electrograph.

4. An instrument for the continuous recording of atmospheric electricity.

electrography, n. 3. In photog., a process by which a dry sensitized paper is made to reproduce a design through the agency of pulsations of the heart. Sci. Amer., March 5, 1904, p. 197.

electrochemical energy, equivalent of an element, filtration. See *energy, etc.
electro-copper (ë-lek-trō-kop'er), n. Copper which has been deposited from solution by means of electrolysis.

electrocute, electrocution. See *electricute, *electrocute, electrocution. See *electricute, *electricution.

usually) supplementing the sunlight or affording the only illumination for the plants: the latter condition is commercially impossible. electro-industrial (ē-lek'trō-in-dus'tri-al). a. Relating to electricity as applied to industrial

operations.

lectro-irrigation (ē-lek"trō-ir-i-gā'shon), n. Irrigating by means of water pumped by electric power.

electroluminescence (ē-lek'trō-lū-mi-nes'ens), n. Luminescence electrically excited, as by the discharge in a vacuum tube. See *lumi-

electroluminescent (ē-lek"trō-lū-mi-nes'ent), a. Rendered luminescent by the electric dis-

electrolysis, n. 2. In surg., the destruction of tumors, cicatricial bands, calculi, and other of tumors, cicatricial bands, calculi, and other pathological formations by means of the electric current.—Arrhenius's theory of electrolysis, in phys. chem., the hypothesis that an electric current is carried through an electrolyte only by dissociated ions, coupled with a proposed method of determining the relative amounts of the dissociated and the undissociated molecules.—Laws of electrolysis. The principal laws relating to electrolysis are as follows: (a) The amount of chemical action in a given time is equal in all parts of the circuit. (b) The number of ions set free in a given time is proportional to the strength of the current. The current is carried through the electrolyte by the motion of ions possessing electric charges, and the ions of each element carry an unalterable charge of electricity; increase of current therefore involves an increase in the number of ions liberated. (c) If the same current be passed simultaneously through several cells in series, containing different electrolytes, the weight of the ions liberated in each cell is equal to the total quantity of electricity conveyed, multiplied by the electrochemical equivalent of the ions of that cell.

Electrolytic detector. See *detector.—Electrolytic

chemical equivalent of the lons of that cell.

Electrolytic detector. See *detector.—Electrolytic dissociation. See *dissociation. Electrolytic gas, in chem., the mixture of gases set free in the electrolysis of dilute oxacids or of alkaline solutions, as well as of other substances. In the cases specified, the gas is an explosive mixture of one volume of oxygen with two volumes of hydrogen. The volume produced in a given time is sometimes used to measure the strength of the current of electricity by means of one of the forms of voltameter.—Electrolytic hysteresis, interrupter. See *hysteresis, interrupter. See *hysteresis, interrupter. In phys., a meter for measuring an electric current by the weight of metal which is dissolved or deposited by the passage of the cur-

rent (or of a convenient fraction of it) through an electrolytic cell.— Electrolytic refining, a mode of purification now applied on a very large scale and with great advantage to several of the metals, especially to copper, which is thus obtained for electrical conductors of a far higher degree of purity than would otherwise be possible, while notable quantities of gold and silver present in minute proportion are at the same time saved. The principle of the process is the decomposition of a salt of the metal to be refined, dissolved in water, by passing an electric current through it, the metal in question being deposited in a pure state on the negative electrode, while the acid constituent of the salt attacks and dissolves a slab or plate of the impure metal which forms the positive electrode, reproducing the salt. By suitable regulation of the current some impurities are not dissolved, while others, which pass into solution, are not deposited.— Electrolytic alime, the finely divided deposit of material left undissolved at the anode in electrolytic refining, as of copper. From it the precious metals are recoverable with profit, even when they have formed but a very minute proportion of the original copper.

Electromagnetic coupling, inertia, waves.

See *coupling, etc.
electrometallurgical (ē-lek 'trō-met-a-ler' ji-kal), a. Relating to or connected with elec-

trometallurgist (ē-lek-trō-met'al-er-jist),

n. One who is versed in the art of electro-

metallurgy (which see).

electrometallurgy, n. 2. The process of extracting metals from their ores, or the manufacture of metals by the use of heat from an electric arc.

electric arc.

electrometer, n.—Dolaralek electrometer, a quadrant electrometer of great sensitiveness used in the study of radioactivity. It has a very light needle of silvered paper suspended by a quartz fiber. It can be made to indicate a potential difference of 0.06 millivolt.—Ebert electrometer, an apparatus for observing the charge of electrons contained in the air at a given time and place. It consists of a clockwork aspirator which draws a definite quantity of air through the space between two metal cylinders fitting one into the other. If the capacity of the system and the quantity of air drawn through it at a given time are known, the quantity of electricity that has been contained in a cubic meter as a charge of electrons can be determined. It is especially adapted for use in balloon ascensions.

electromobile (e-lek-trō-mō'bil), n. An elec-

electromobile (ē-lek-trō-mō'bil), n. An electric automobile; a motor-car driven by elec-tric motors whose current is derived from electric storage-batteries or accumulators.

electric storage-datteries of accumulators.

electromotive, a.—Contact electromotive force, in elect, the electromotive force due to the contact between two different metals. The existence of a true contact electromotive force which does not depend on chemical action is denied by many physicists.—Energy electromotive force, in elect., an alternating electromotive force or component of electromotive force in phase with the current.

electromotivity (ë-lek 'trō-mō-tiv' i-ti), n. [electromotive + -ity.] The power of exciting electrical action.

The original positive current of a freshly excised eyeball has two factors: electromotivity of the cut end of the optic nerve and electromotivity of the disturbed retina. Philos. Trans. Roy. Soc. (London), 1900, ser. B, p. 128.

electron, n. 2. In phys. chem., the definite charge of electricity which is associated with a univalent ion. Sometimes called an atom of electricity. See *electricity.—3. According to a recent hypothesis, a minute particle detached from an atom of a gas by certain agencies, as when the gas is carrying an electric current. The electron has a mass of something like one thousandth of the mass of an atom of hydrogen, and possesses (or consists of) a negative electric charge equal to that of the negative univalent ion of electrolytic conduction. In a gas at very low pressures, the electron constitutes the negative ion of gaseous conduction, while the atom from which the electron has been detached constitutes the positive ion. In gases at greater pressures, electrically neutral molecules become attached to the electron and to the atom from which the electron has been detached, and these complex systems constitute the ions of gaseous conduction at atmospheric pressure. In liquid electrolytes, according to this theory, an atom or radical from which one, two, or three electrons have been detached is a positive univalent, bivalent, or trivalent ion. An atom or radical to which one or more electrons have been attached constitutes a negative ion of the corresponding valence. In metallic conductors the electrons pass from an atom to an adjacent atom without producing electrolysis or chemical decomposition. The experimental basis of the hypothesis has been chiefly discovered by J. J. Thomson, with the aid of some of his pupils. certain agencies, as when the gas is carry-

These negative ions perhaps realize the conception of electrons due to Lorentz and Larmor. . . . An atom plus an electron is a monovalent anion, an atom minus an electron, a monovalent cation. In metallic conductors the electrons can pass from one atom to the next, and thus allow a current to flow without chemical decomposition.

J. J. Thomson, Encyc. Brit., XXVIII. 16.

It may be convenient here to emphasize the dimensions of an electron as above specified, for the arguments in favor of that size are very strong, though not absolutely conclusive; we are sure that their mass is of the order one thousandth of the atomic mass of hydrogen, and we are sure that if they are purely and solely electrical their size must be one hundred-thousandth of the linear dimensions of an atom; a size with which their penetrating power and other behavior is quite consistent.

Assuming this estimate to be true, it is noteworthy how very small these electrical particles are, compared with the atom of matter to which they are attached. If an electron is represented by a sphere an inch in diameter, the diameter of an atom of matter on the same scale is a mile and a half. Or if an atom of matter is represented by the size of this theater, an electron is represented on the same scale by a printer's full stop.

Sir Oliver Lodge, in Pop. Sci. Mo. Aug., 1903, p. 291.

Riectron theory in phys. chem, the hypothesis, not yet fully developed, that the atom of any element consists of a definite (large) number of electrons, describing orbital and vibratory motions under the influence of the forces acting between them. Optical considerations led Larmor and Lorentz to adopt the hypothesis as a basis for mathematical studies, before J. J. Thomson isolated electrons (called corpuscles by him) and found that the electrons produced in a vacuum-tube are identical in mass, whatever the gas and whatever the metal of the electrodes. That atoms of all elements are made up of different numbers of identical electrons is an attractive and valuable working hypothesis.

The electron theory fits and luminously explains Am-

The electron theory fits and luminously explains Ampère's idea that magnetism is due to a rotating current of electricity round each atom of iron; and following these definite views of the existence of free electrons, has arisen the electronic theory of matter.

Sir W. Crookes, quoted in Science, June 26, 1908, p. 1001.

electronic (ë-lek-tron'ik), a. Pertaining to or of the nature of electrons. See *electron, 2 of the nature of electrons. See *electron, 2 and 3.— Electronic charge, the number of electrons contained in a unit volume, as one cubic meter of gas or air. This increases rapidly with altitude above sea-level. The upper strata of air have high electric conductivity, as is shown by the auroral displays and heat-lightning. According to some authorities, the electric charge of the upper air is the effect of the violet rays of sunlight; according to others, it is due to corpuscles emanating directly from the sun's atmosphere. The condensation and precipitation of aqueous vapor takes place on the negative nuclei more easily than on the positive; the former are therefore washed from the lower air down to the earth, thus leaving the positive charge to preponderate in the atmosphere. Victor Conrad computes the amount of electricity attached to one gram of water in a cumulus cloud as 0.028 × 10-8 of a coulomb.— Electronic theory.

See *electron-trap* (6-lek'tron-trap), n. An ar-

electron-trap (ē-lek'tron-trap), n. An arrangement by which plus and minus electrons may be separated from each other by taking advantage of the different velocities with which

they move. electro-os/mōs), n. See elec-

electro-osmose (e-lek-tro-os mos), n. See electrical endosmosis, under endosmosis.
electro-osmotic (e-lek"trō-os-mot'ik), a. In phys. chem., producing, produced by, or connected with electric osmose.
electropath (e-lek'trō-path), n. [A backformation from electropathy.] One who is skilled in

the art of electrotherapy.

electrophore (ē-lek'trō-fōr), n. [See electrophorus.] Same as electrode.

electrophototherapy (ë-lek'trō-fō-tō-ther'-a-pi), n. The treatment of disease by means of the electric light. Lancet, July 11, 1903, p. 104. electrophysics (ē-lek-trō-fiz'iks), n.

electropneumatic (ē-lek"trō-nū-mat'ik), a.
Moved by electric and (then) pneumatic Moved by electric and (then) pneumatic power.—Electropneumatic action, in organ-building, an action in which the original impulse from the console is conveyed by electricity, but the force exerted within the instrument (in opening valves, etc.) is derived from compressed air.—Electropneumatic organ, an organ with an electropneumatic action.—Electropneumatic thermostat. See *thermostat.* electroprocess (ē-lek'trō-pros"es), n. The arts or manipulations needed to produce an electrotyped duplicate.

electroprognosis (ē-lek"trō-prog-nō'sis), n. A prognosis based upon the reactions obtained upon a trial application of electricity to dis-

essed nerves or muscles.

electrorefine (e-lek'trō-rē-fin'), v. t.; pret. and pp. electrorefined, ppr. electrorefining. To refine by means of electrolysis by means of electrolysis. A plate of the crude metal is made the anode in an electrolyte consisting of a sait of the same metal; when the current passes, the crude metal dissolves from the anode, and the pure metal, if suitable conditions are maintained, is deposited on the

electrorefining (ē-lek'trō-rē-fī'ning), n. refining of a metal by means of electrolysis. electroreplica (ē-lek"trē-rep'li-kā), n. A metallic duplicate of an orginal produced by electrodeposition.

An electro replica of Tycho Brahe's quadrant, from the original in the British Museum, is deposited in the Smithsonian Institution. Smithsonian Rep., 1890, p. 728.

Smithsonian Institution. Smithsonian Rep., 1890, p. 728. **electroscope**, n.—Lantern electroscope, an electroscope so constructed that it may be placed in the field of a projecting lantern and an enlarged image of the moving parts thus be thrown upon a screen for observation at a distance.—Radium electroscope, an electroscope, devised by Strutt, in which the charge is permanently maintained by the action of a small mass of radium, or in which the leaves of the instrument, thus charged, are discharged by contact, collapse, and are recharged by the radium at a regular rate indefinitely. **electroscope**, 1890, p. 728.

electrostenolysis (ē-lek"trō-stē-nol'i-sis), n.

[electro- + Gr. στενός, narrow, + λίσις, dissolution.] Electrodeposition within the interstices of a permeable substance traversed by the current within an electrolytic cell.

electrostenolytical (e-lek'tro-sten-o-lit'i-kal). Of, pertaining to, or by means of electro-

stenolysis.

electrostenolytically (ē-lek'trō-sten-ō-lit'i-kal-i), adv. In an electrostenolytic manner or by an electrostenolytic process.

electrostriction (ē-lek-trō-strik'shon), n. [electro- + LL. strictio(n-), compression.]

Change in the dimensions of, or deformation of, a dielectric produced by the action of an electrostatic field.

electrosurgical (ē-lek-trō-ser'ji-kal), a. Re-lating or pertaining to the use of electricity in

surgery: as, electrosurgical devices.

electrosynthesis (ē-lek-trō-sin'the-sis), n.
Chemical synthesis effected by the aid of elec-

electrotactic (ë-lek-trō-tak'tik), a. [electro-taxis (-tact-) + -ic.] Of or pertaining to the locomotion of organisms in relation to electric currents; exhibiting electrotaxis.

electrotaxis (ê-lek-trô-tak'sis), n. [NL., \langle electro- + Gr. $\tau \dot{a} \xi \iota c$, disposition]. The orientation or the locomotion of organisms or of cells in relation to electric currents: a phenomenon first observed in vertebrates in the frog's tadpole, in 1885.

electrotelethermometer (ë-lek'trö-tel'ë-thermom'e-ter), n. An apparatus consisting of a mercurial thermometer with platinum wires sealed into the glass at the bulb and at different points on the stem. These wires are connected with a switch, an alarm-bell, and a battery in such a manner that, when the mercury expands to a particular point corresponding to the position of the switch, the circuit is closed and the alarm rings. Sci. Amer., Sept. 12, 1903,

electrothanasia (ē-lek 'trē-tha-nā' ziä), n. [electro-+ Gr. θάνατος, death.] Death caused by electricity.

electrotherapist (ē-lek-tro-ther's-pist), n.

Same as electrotherapeutist.
electrothermal (ē-lek-trō-ther'mal), a. Re-

electrothermal (e-lek-tro-ther mai), a. Acclating to heat produced by electricity.—Electrothermal detector. See *detector.
electrothermic (e-lek-tro-ther'mik), a. Same as *electrothermal. Engineering Mag., June, 1899.

electrothermometer (ē-lek'trō-ther-mom'eter). n. An instrument for the measurement of temperature by electrical means; an electri-

or temperature by electrical means, the call thermometer.

electrothermy (ē-lek-trō-ther'mi), n. [electro-+ Gr. θέρμη, heat, + -y³.] The science of the electricity developed by heat. N. E. D.

electrotonus, n.—Physical electrotonus, an electrical change, analogous to physiological electrotonus, which takes place in a wire during the passage of an electric current.—Physiological electrotonus, an altered excitability of a nerve brought about as the result of the passage of a constant current, such that at the positive pole the excitability is diminished (region of anelectrotonus), while it is increased at the negative pole (region of catelectrotonus).

electrotropic (ē-lek-trō-trop'ik), a. [electro-+ Gr. τροπικός, of turning: see tropic.] Of or pertaining to the growth or bending of an or-

pertaining to the growth or bending of an organism under the influence of electricity; exhibiting electrotropism.

electrotropism (ē-lek-trot'rē-pizm), n. [Also by error or ellipsis electropism; < electrotrop(ic) + -iem.] The growth or bending of an organism under the influence of electricity.

electrotype, n.—Electrotype shell, the thin sheet of metal, usually of copper, deposited by electrolysis in the previously prepared mold of war, that has been pressed upon a surface of type or of engraving in relief. The shell so obtained, of the thickness of an ordinary sheet of paper, is made usable for printing by the addition of a type-metal backing.

electrotypograph (ē-lek-trō-tī'pō-graf), n. A type-making and type-setting apparatus, in-vented by Meray-Rozar of Nuremberg, in which some operations are controlled by electricity. Its types are cast singly.

The "Electrotypograph"... justifies automatically... and offers the greatest facility for corrections.... There are two distinct machines combined in one. One of these is a writing and the other a casting and composing machine.

achine. La Nature, as quoted in Sci. Amer. Sup., Aug. 30, 1902. [p. 22288.

electrotypoplate (ē-lek-trō-tī'pō-plāt), n. An electrotype plate produced from types made and composed by the electrotypograph. electrovitalism (ē-lek-trō-vī'tal-izm), n. The doctrine of the electrical nature of nervous

action.

electrozone (ē-lek'trō-zōn), n. [electr(ic) + ozone.] A trade-name for a weak solution of ozone.] A trade-name for a weak solution of common salt, as, for instance, sea-water, in which by means of an electric current sodium hypochlorite has been formed. It is antiseptic, and has been proposed as a material to be added in small proportion to a public water-supply in order to destroy bacteria or other micro-organisms.

electrum, n. 2. Native argentiferous gold in which the silver amounts to one third or more.

electuary-pot (ë-lek'tū-ā-ri-pot), n. A vessel designed to hold an elixir or cordial, such as the majolica drug-pots of Faenza. See alba-

elegante (el-e-gant'), n. [F. élégante, fem. of élégant, elegant.] A lady of fashion.

If my Waverley had been entitled "A Tale of the Times," wouldst thou not... have demanded from me a dashing sketch of the fashionable world, ... with a set of subordinate characters from the elegantes of Queen Anne Street East?

elem. An abbreviation of elementary.

eleme (el'ē-mi), n. [Also elemi; < Turk. eleme, elemeh, something sifted or selected.] A kind of Turkish fig: generally used attributively: as, eleme figs, selected figs (that is of superior quality) from Turkey.

quality) from Turkey.

element, n., 1. (d) In math.: (2) any one of the different products of which a determinant is the sum. See determinant, 3. (j) In anat., one of the indivisible constituents of a tissue, as a cell or ultimate fiber. (k) In pathol., an individual lesion among several the aggregation of which constitutes the anatomical disease, as a single pustule in the smallpox eruption. Lancet, April 4, 1908, p. 349. (i) In any complex mechanical structure, one of the simpler or irreducible parts: as, the elements of a machine, the elements of a sectional boiler.

3. The common division of the chemical elements as at

the simpler or irreducine pause. as, and machine, the elements of a sectional boller.

3. The common division of the chemical elements, as at present known, into metals and non-metals is not based upon any chemical distinction of scientific value, but rather upon a more or less general consideration of physical properties of the elements in an uncombined state; hence the line between the two classes is arbitrarily drawn and is without entire uniformity of usage, certain elements, as arsenic, antimony, bismuth, and tellurium, being by some writers counted as metals, by others as non-metals. The following table furnishes a list of the elements as at present (1909 generally recognized by chemists, omitting those of imperfectly established character. The number is 88. The atomic weights given are those of the last table published by the International Committee on Atomic Weights.

Elements.	Symbols.	Atomic Weights. O = 16.
Aluminium	Al	27.1
Antimony	Sр	120.2
Argon	A.	39.9
Arsenic	As Ba	75.0 137.37
Beryllium.	Be	9.1
Bismuth	Bi	208.0
Boron.	В	11.0
Bromine	Br	79.92
Cadmium	Cd	112.40
Cæsium	Cs	132.81
Calcium	Ca	40.09
Carbon	C	12.00
Cerium	Ce	140.25
Chlorin	Cl	35.46
Chromium	Cr	52.1
Cobalt	Co	58.97
Columbium	Cp	93.5
Copper	Cu	63.57
Dysprosium	Dy	162.5
Erblum	Er	167.4
Europium	Eu F	152.0
Fluorin	Gđ	19.0 157.3
GadoliniumGallium.	Ga	69.9
Germanium	Ge	72.5
Glucinum	Ğî	9.1
Gold	Āu	197.2
Helium	He	4.0
Hydrogen	H	1.008
Indium	In	114.8
Iodine	I	126.92
Iridium	Ir	193.1
<u>Iron</u>	Fe	55.85
Krypton	Kr	81.8
Lanthanum	La	139.0
Lead	Pb	207.10
Lithium.	Li Lu	7.00 174.0
Lutecium	Mg	24.32
Magnesium	Min	54.98
Mercury	Hg	200.0
Molybdenum	Mo	96.0
Neodymium.	Nd	144.3
Neon.	Ne	20.0
Nickel	Ni	58.68
Niobium	Nb	93.5
	N	14.01
Nitrogen	Os	190.9
Osmium		16.00
Osmium. Osygen.	0	
Osmium. Osygen. Palladium	Pd	106.7
Osmium. Osygen. Palladium Phosphorus	Pd P	106.7 31.0
Osmium. Osygen. Palladium Phosphorus. Platinum	Pd P Pt	106.7 31.0 195.0
Osmium. Osygen. Palladium Phosphorus Platinum Potassium	Pd P Pt K	106.7 31.0 195.0 39.10
Osmium. Osygen. Palladium Phosphorus. Platinum	Pd P Pt	106.7 31.0 195.0

Elements.	Symbols.	Atomic Weights 0 = 16.
Rubidium. Ruthenium. Samarium Seandium Selenium. Sellenium. Silicon Silver Sodium Strontium Sulphur. Tantalum Tallurium. Terbium Thallium Thorium Thuijum Tin. Titanium. Transium. Transium. Tyansium Tyansium Thuijum Thuijum Thuijum Titanium Tyansium Tyansi	Ru So Se Se Si Ag NS T T T T T T T T T T T T T T T T T T	85.45 101.7 150.4 44.1 79.2 28.3 107.88 23.00 127.5 159.2 204.0 232.42 168.5 119.0 48.1 184.0 238.5 51.2 128.0 7 89.0 65.7 90.6

Dry element, in elect., a battery element having the exciting fiuld absorbed in a porous or spongy mass, as sawdust.—Element of an analytic function. An analytic function is defined by an aggregate of series composed of a primary series and its continuations; the separate of series are called elements of the analytic function, and the primary series is called the primary element.—Encild's elements of geometry. See Euclidean, 1.—
Half-period element, in optics, an annular or zonal element of area upon a wave-front such that the difference of the distances from its outer and inner boundaries to a point, exterior and to the wave, with respect to which the element is taken, is half a wave-length. Also called Huy-gens zone. Let ABCD be a portion of the wave-front and op the line is from o to the pole of the wave. If ozg.—ozn is everywhere equal to \(\frac{1}{2}\), where \(\lambda\) is the wave-length, the zone included between the closed curves \(\frac{1}{2}\) and \(\frac{1}{2}\) in a determinant, the leading term; the product of the chemical elements, the differentiated cells which constitute the functionating parts of organs, as distinguished from the connective-tissue cells which constitute the framework of the organs.—Null element, one whose addition to any other element a of the manifold yields the same element \(\frac{1}{2}\).—Phonetic element, in physiol., an alimentary element which is destined for the formation of new tissue.—Radial elements, in inhth, the interspinal bones, actinosts and baseots; the fin-supporting elements.—Tw. Bridge, in Jour. Linn. Soc. Zool., XXV. S33.—Surface elements, in math., infinitesimal strips perpendicular to an axis.

elementaloid (el-\(\tilde{e}\)-men'ta-riz), v. t.; pret. and pp. elementarized, elements, and pp. elementarized, ppr. elementarizing. [elementarized]

elementarize (el-ē-men'tṣ-riz), v. t.; pret. and pp. elementarized, ppr. elementarizing. [elementar(y) + -ize.] To confine or restrict (one's teaching) to elementary principles.

The very word passion is becoming obsolete in psychological literature, which on this subject elementarizes, repeats, is pedantic, or affectedly didactic.

G. S. Hall, Adolescence, II. 59.

elementary, a. 4. Of the nature of an infinitesimal element or part.—Elementary integral

elementist (el-ē-men'tist), n. One who discovers or expounds the elements of a subject; specifically [cap.], Euclid, the geometer.

The man and the book are, of course, Euclid and his Elements, but the book so overshadowed the man that not long after his day Euclid was regularly called the Elementist.

W. B. Frankland, Story of Euclid, p. 16.

elemi, n.—Luban elemi. Same as Oriental or African elemi. See elemi.—Mexican elemi, the oleoresin derived from Terebinthus Mexicana and T. Jorullensis. Also called copal blanco and copal de santo. See *copal.elemic (e-lem'ik), a. [elemi+ic.] Pertaining to or derived from elemi.—Elemic acid, a crystalline acid, C₃₅H₄₆O₄, present in small quantities in elemi.

elemin. elemins, n.— Socratic elemins, the method of question and answer employed by Socrates in eliciting truth. eleclite, n. See elective. election election election election election election election election. A variety of beraunite, first described from the Eleonore mine near Giessen Geometry. sen, Germany.

Elephant boiler, cent. See *boiler, *cent. elephanteer (el'ē-fan-tēr'), n. A mahout or elephant-driver.

elephantiac, a. II. n. A person suffering from elephantiasis.

elephantiasic (el-ē-fan-ti-ā'sik), n. Same as ephantiac.

*elephantiac.
elephantoid, a. 2. Pertaining to or having the character of elephantiasis.—Elephantoid fover, elevation of temperature and other symptoms marking the onset of elephantiasis.
Elephantomyia (el'ē-fan-tō-mī'yš), n. [NL. (Osten Sacken, 1859), ⟨ Gr. ἐλέφας (ἐλεφαντ-), elephant, + μνία, fly.] An extraordinary genus of tipulid flies, occurring in North America and characterized by an extremely long proboscie

boscis.
elephantry (el'ē-fan-tri), n. [elephant + -ry.]
Troops mounted on elephants. F. Hall.
elephant's-ear, n. 2. In India, Siphonanthus
hastata, a Himalayan shrub belonging to the
verbena family. The name translates the
native name hattee-kana. and refers to the
shape of the leaves.—3. In the United States,
a common name for the large-leaved Caladium
Calcagia, planted for opponent.

Colocasia, planted for ornament. elephant-shark (el'ē-fant-shärk), n. Same as

basking-shark.
elephant's-tooth (el'ē-fants-töth), n. A tooth-shell, Dentalium.

elephant's-trunk (el'ē-fants-trungk), n. 1. The unicorn-plant, Martynia Louisiana.—2. The bastard bryony or china-root, Cissus sicyoides.

survoiaes. sleutherarch (e-lū'ther-ārk), n. [Gr. ἐλείθερος, free, + ἀρχός, a chief.] The chief of an imaginary secret society called the 'Eleutheri.' $N.\ E.\ D.$

Do not persevere in writing after you grow weary of your toll; . . . the swans and the *Eleutherarchs* are proofs that you were a little aleepy.

Shelley, in Contemporary Rev., Sept., 1884, p. 387.

Shelley, in Contemporary Rev., Sept., 1834, p. 387.

eleutherism (e-lū'the-rizm), n. [Gr. ἐλείθερος, free, + -ism.] The cause of freedom or zeal in promoting it.

Eleutherognathi (e-lū-the-rog'na-thi), n. pl. [NL., < Gr. ἐλείθερος, free, + γνάθος, jaw.] Same as Acanthopteri or Acanthopterygii, a large suborder of fishes, commonly called the spiny-rayed fishes. rayed fishes.

rayea panes.
eleutherorhabdic (e-lū'the-rō-rab'dik), a.
[Gr. ἐλείθερος, free, + ῥάβδος, rod.] Relatively free from union with one another, as the gill-filaments provided with ciliated disks in certain lamellibranchs. See *synaptorhabdic.
Lankester, Philos. Trans. Roy. Soc. (London), ser R. p. 154

Lankester, Philos. Trans. Roy. Soc. (London), ser. B, p. 154.

Eleutherozoa (e-lū'the-rō-zō'ā), n. pl. [NL., Gr. ἐλείθερος, free, + ζῷνν, animal.] A grade of echinoderms in which the theca, which may be only slightly or not at all calcified, is not attached by any portion of its surface, but is usually placed with the oral surface downward or in the direction of forward locomotion. It includes the Halathyroidea Stelleroidea and includes the Holothuroidea, Stelleroidea, and Echinoidea.

Echinoidea.
eleutherozoic (e-lū"the-rō-zō'ik), a. Of or pertaining to the Eleutherozoa.
elevated (el'ē-vā-ted), p. a. 1. Lifted or raised to, or placed or situated in, a position above the ground or general level; situated higher than the plane with which the comparison is made. higher than the plane with which the comparison is made. See elevate. In astrol., a planet is said to be elevated above another when it is nearer to the meridian. 2. In math., containing high powers of the unknown or variable: said of an equation. elevate-reticulate (el'ē-vāt-rē-tik'ū-lāt), a. Reticulate with elevated lines or carinæ, as the sculpturing of the integument of certain coleopterous and hymenopterous insects. Proc. Zool. Soc. London, 1901, p. 155. elevating-block (el'ē-vā-ting-blok'), n. The sheave or block, in a cable or overhead tramway system, over which the hoisting-rope passes, and by means of which the load is ele-

passes, and by means of which the load is ele-vated sufficiently for it then to be conveyed on the cable by the carrier of which the block or

sheave is a part.

elevation, n. 9. In old music, a grace or embellishment consisting of a short upward run

bellishment consisting of a short upward run connecting two notes separated by a skip.

—Axis of elevation. See **axis1.*
elevator, n. 3. In surg.: (b) An instrument for extracting the stump of a tooth. (c) Same as repositor.—4. (c) Any form of hoisting-machinery employing an endless belt (composed of link-belt chains, or of leather, rubber. or fabric) which carries bucketa, bracketa, or trays. Where buckets are used, the material (grain, sand, coal, phosphate, nails, small fish, etc.) is handled in bulk, each bucket being filled at the foot of the elevator and discharging its load at the top. Where brackets, arms, or trays are used, general freight (in packages, rolls, boxes, barrels, etc.) is handled by placing it on the brackets or trays by hand or by some form of feeder, and unloading it by hand or by automatic dumping- or discharging-machines. While all are essentially alike, such

machines differ materially in form and application, and are given many different names, according to their construction or the uses to which they are put. They are often combined with conveyers.—Derrick-elevator, an apparatus for lifting grain stored in bulk in a vessel's hold and transferring it to lighters or into the bins of storage-elevator. The elevator proper is borne upon a frame on a flatbottomed vessel, as in the case of the marine derrick used



Derrick- or Grasshopper-Elevator.

a, a, hull of scow or lighter; b, propelling-engine and steam boiler for c, the elevator operating and adjusting engine; d, the bucket-elevator and its casing; e, chute into which the bucket discharge; f, conveyer delivering to the spouts; g, discharge or loading spouts or chutes fed from A, conveyer receiving from f

for placing machinery in vessels. The truss carrying the elevator has jointed members, so that the elevator can drop down through hatchways in the decks of the vessels to be unloaded. Hence another common name, grasshopperelevator. Sci. Amer., Jan. 31, 1903, p. 75.—Elevator disease.—Uterine elevator. Same as

elevator-cage (el'ē-vā-tor-kāj'), n. The cage or inclosed car by which passengers and freight are carried in an elevator. In mines, the sides

are grated or protected with bars only.

elevator-cup (el'ē-vā-tor-kup'), n. The metal
receptacle attached to the chain or belt of a

receptacle attached to the chain or belt of a bucket elevator: usually called bucket.

elevator-scales (el'ē-vā-tor-skālz'), n. Platform-scales for weighing grain as it comes from an elevator. Such scales are usually automatic, receiving about 100 bushels as a load, recording the weight, and then emptying the grain into a storage-bin. Two hoppers work alternately, filling and emptying.

elevator-shaft (el'ē-vā-tor-shaft'), n. In modern buildings, the inclosed space, of uniform height from top to bottom, in which an elevator-car moves up and down.

tor-car moves up and down.

tor-car moves up and down.

Eleven rule, in bridge, a mathematical rule invented by R. F. Foster to enable the pone to determine how many cards in the leader's suit are out against him higher than the one led, when this is the fourth best. It is the following: Deduct from eleven the number of spots on the card led, and the remainder is the number of cards in the suit higher than the one led, which the leader does not hold. From the remainder thus found the pone deducts the number he holds himself, and sees in the dummy, higher than the one led, and this second remainder, if any, is the number the dealer holds. For instance, the 7 is led, dummy lays down Q, 10, 5, and the pone holds A, 8, 6. Deducting the 7, led, from 11, 4 higher than the 7 are left, all of which are in sight, so that the dealer has no card higher than the 7, and the leader must hold K, J, 9, 7. Therefore, if dummy does not cover the 7, the pone will pass it, and it will win the trick. The dealer, if he knows the eleven rule, will of course avail himself of it and cover the 7 led with the 10 in dummy's hand, so as to force the pone to play higher and lead up to dummy's guarded queen, if he continues the suit.

elf-cup (elf'kup), n. A small stone perforated

elf-cup (elf'kup), n. A small stone perforated by the action of water at a waterfall.
elf-god (elf'god), n. The elfish god, that is,

Tennyson.

Cupid. Tennyson.

elfic (el'fik), a. [elf + -ic.] Of or pertaining to an elf; proper to an elf.

elfin, n. 3. An American lycænid butterfly of the genus Incisalia.—Banded elfin, a lycænid butterfly Incisalia niphon, occurring throughout the United States and found commonly in open spaces in pine woods. It is brown in color, with the under sides of the wings checkered with brown and white. Its larvæ live on pineleaves.—Brown elfin, an American lycænid butterfly, Incisalia angustus, of dark-brown color, inhabiting the northern United States. Its food-plant is unknown.—Hoary elfin, Incisalia irus, a species occurring east of the Mississippi, feeding in the larval state on the fruit of the wild plum.

elfin-tree (el'fin-trē). [Tr. of G. zwergbaum

elfin-tree (el'fin-tre). [Tr. of G. zwergbaum (Schimper).] In phytogeog., an alpine type of tree with short, gnarled, often oblique or horizontal stem, and long serpentine branches bent in all directions, occuring mainly in the tropics. A. F. W. Schimper (trans.), Plant-Geog., pp. 704, 705.

pp. 704, 705.

elfin-wood (el'fin-wùd), n. A wood composed of elfin-trees. See *elfin-tree. A. F. W. Schimper (trans.), Plant-Geog., p. 704.

elf-owl (elf'oul), n. A diminutive species of owl, Micropallas whitneyi, found in the southwestern United States.

Elfin sandstane. See *sandstane.

Elgin sandstone. See *sandstone.

eliasite (ē-li'a-sīt), n. [Elias, name of the mine of origin, + -ite².] An alteration-product of the pitch-blende of Joachimsthal, Bohemia; a kind of gummite.

Elijah's cup. See *cup.
eliminant, n. 2. In med., an agent which stimulates exerction.

Eliminative selection.

stimulates exerction. See *selection. eliminative selection. See *selection. eliminator, n. 2. A combination of a separator for taking the water out of steam and a trap for automatically discharging the water

from the collector. littoral (ē-lit'ō-ral), a. [L. e, out, + litus, littus (littor-), shore, +-al.] Out from shore; that is, occurring in the sea near shore, at least below high water mark.

She finds that the plant Callymenia phyllophora is elittoral, and occurs in crevices in the rocky caverns where the tidal surge is strong. Only young plants were uncovered by low tides; mature plants were well beyond low tide line. Jour. Roy. Micros. Soc., April, 1905, p. 215.

elixir, n.—Brown-Séquard's elixir, a sterilized testicular fluid used in the treatment of mental and nervous diseases.—McMunn's elixir, a watery solution of opium of the same strength as laudanum.

Eliz. An abbreviation of Elizabethan.

Eliza, n. See *Long Eliza.

Eliza, n. See *Long Enza.

Elizabethan, a. II. n. One who lived during the Elizabethan period; especially a poet, or dramatist of that period.

Elizabethanize (ē-liz-a-beth'an-īz), v. t.; pret. and pp. Elizabethanized, ppr. Elizabethanizing.

To give an Elizabethan character to; pattern efter the style of the Elizabethan period

after the style of the Elizabethan period.

elk¹, n. 5. [cap.] A member of a benevolent and fraternal society known as the Benevolent and Protective Order of Elks, organized in New York in 1868. Its membership is restricted to

citizens of the United States.

Elk-horn fern. See *fern¹.

elk-game (elk'gām), n. A ceremonial game of the Dakota Indians of North America, played with a ring and darts: similar to the hoop-and-pole game.

hoop-and-pole game.

Elk River series. See *series.

elk-yard (elk'yärd), n. A space cleared in the deep snow by the trampling of a small band of elk, within which they live and feed. Called, in America, moose-yard. See elk'.

ellagitannic (e-laj-i-tan'ik), a. [ellagi(c) + tannic.] Pertaining to gallnuts and tannin.

—Ellagitannic acid an acid substance resembling ellagic and tannic acid, but derived from the tannin of divi-divi and myrobalans rather than from gallnuts or sumac. Its empirical formula is C14H10O10.

Elliott eye. See *eye1. Elliott's apparatus. See *apparatus.

Elliott's apparatus. See *apparatus.
ellipse, *a.—Aberrational ellipse, the little ellipse which a star appears to describe annually on account of the aberration of light. Its major axis is always 41 seconds long and parallel to the ecliptic. Its minor axis varies with the star's latitude, that is, its distance from the ecliptic.—Ellipse of stress, a geometrical construction, devised by Rankine, for finding the stresses at a point within a solid in a state of strain. It is an ellipse whose center is at the given point, whose principal axes are the normals to the planes of principal stress, and whose principal semi-axes are proportional to the intensities of the principal stresses.

ellipsoid, n. 2. In anthrop., a cranium the norms verticalis of which has an ellipsoidal form. G. Sergi, Var. of the Human Species, form. G. Sergi, Var. of the Human opecies, p. 27.—Freenel's ellipsoid, an ellipsoid whose semi-axes are taken proportional respectively to the maximum, minimum, and mean values of the light-velocity for a given biaxial crystal. See axes of light-elasticity, under axis1.—Irrotational ellipsoid, an ellipsoid that is not a solid of revolution.—Planetary ellipsoid, an oblate [Im-borer (Dularius brevilineus). (Packard, U. S. D. A.)

Ellipsoidal harmonic, structure. See Lame's

Ellipsoidal harmonic, structure. See Lame's function, under function, and *structure.
ellipsone (e-lip'son), n. [ellipse + (cycl)one.]
A whirlwind in which the winds describe ellipses instead of circles. Fitz Roy. [Rare.? ellipsonic (e-lip-son'ik), a. Having the shape, motion, or property of an ellipse.
Elliptic spheroid, substitution. See *ellipsoid of revolution, *substitution.

soid of revolution, *substitution.
Elliptical vibration. See *vibration.

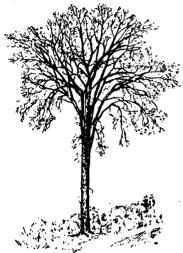
ellipticity, n.—Coefficient of ellipticity. See

ellwife (el'wif), n. A dialectal variant of ale-

11m., n. Of other varieties of elm (comprising some trees more or less closely related to the elm and a few belonging to different familles but somewhat resembling elms:

elm-butterfly

those given below are among the most important.—
American elm. Same as white *eim.—Basket-elm.
Same as *cedar-elm.—Baskard elm. the hackberry. Celtic occidentalis. See hackberry. 2 (with cut).—Broadleaved elm. Same as witch-elm.—Cedar-elm.—See *cedar-elm.—Cork-elm. See *cedar-elm.—Cork-elm. See *cedar-elm.—Cork-elm. See *cedar-elm.—Cork-elm. See *cedar-elm.—Cork-elm.—Dutch elm. a form of the English elm with corky ridges on the branches: distinguished by some authors as a species, Ulmus sub-erosa.—Dwarf elm of Siberia. See Ulmus.—Elm bark-beetle, elm flea-beetle, elm span-worm.—English elm. Ulmus campestris. See elm (with cut). This tree was extensively planted in some American cities, especially Washington, by the English and Scotch gardeners, who apparently were not aware of the superior claims of indigenous species.—False elm. Same as bastard *elm.—Himalayan elm. See Ulmus.—Indian elm. the slippery-elm. (a) The slippery-elm, from the red wood, by which it is distinguished from the white elm, and well known among lumbermen. (b) The winged elm. See wahoo, 3.—Red elm. (a) The slippery-elm, from the red wood, by which it is distinguished from the white elm, and well known among lumbermen. (b) The winged elm. (c) Ulmus serotina, a tree of limited distribution on limestone hills and river-banks in southern Kentucky and northern Alabama and Georgia, only recently distinguished from U. fulva, from which it differs in its much smaller fruit, in the absence of muclage in the inner bark, and in other respects. The wood is reddish in color.—Sweet elm., the slippery-elm, from the sweet aromatic taste and smell of the inner bark.—White elm, Ulmus Americana, the most important of American elms. It sometimes reaches



White Elm (Ulmus Americana).

White Elm (Ulmus Americana).

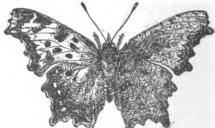
a height of 120 feet and a diameter near the base of 10 feet, with 60 feet or more clear of limbs. The trunk then normally divides up into a large number of more or less equal branches or subsidiary trunks, which diverge in graceful curves in all directions, forming an inversely pyramidal or umbrella-shaped top of wide expanse and great beauty, the dense foliage furnishing a perfect shade. The wood is tough and difficult to split, but very durable and of great value in the arts. The tree ranges from Newfoundland to Florida and westward to the base of the Rocky Mountains.

Rocky Mountains.

elm-beetle (elm'bē'tl), n. 1. The elm bark beetle. See *bark-beetle.—2. A native American beetle, Monocesta coryli, of the family Chrysomelidæ, which feeds on elm-leaves in the more portropy of

the more northern of the Southern States. elm-borer (elm'bor' er), n. Any one of several coleopterous insects whose larvæ insects whose larvæ bore into elm-trees. Among them are the cerambycids Saperda tridentata, S. lateratis, S. vestita, Dryobius sex-maculatus, Dularius brevilineus, Neoclytus erythrocephalus, and N. capræa; the curculionid Magdatis armicollis; the buprestid Anthazia viridicornis; and the scolytid Hylesinus opaculus.
èr-fil), n. Any one of

elm-butterfly (elm'but"er-fli), n. Any one of



Elm-butterfly (Polygonia progne). Natural size (Packard, U. S. D. A.)

several nymphalid butterflies whose larvæ feed on elm-leaves, as Euvanessa antiopa, Polygonia interrogationis, P. faunus, and P. progne.

elm-gall (elm'gâl), n. A gall upon the leaves of the elm.—Cocksoomb elm-gall, a gall resembling in shape a miniature cocksoomb, made on the leaves of elm by an aphidid, Colopha ulmicola.

elm-grass (elm'gras), n. See *grass.
elm-moth (elm'môth), n. Any one of several
species of moths whose larvæ feed on elmleaves, notably Paleacrita vernata, known in the larval state as the spring canker-worm.

elm-scale (elm'skāl), n. An American diaspine scale-insect, Chionaspis americana.

Elohimic (el-ō-him'ik), a. [Elohim + -ic.] Characterized by the use of the Hebrew word Elohim, 'God,' instead of 'Jahveh,' or 'Jahwè,' the proper name of God; Elohistic: applied to certain passages in the Hebrew scriptures: as, the *Elohimic* psalms; the *Elohimic* portions of Genesis; Elohimic documents.

eloiner (ē-loi'ner), n. One who eloins; one who causes an eloinment; for example, one who removes chattels so that they cannot be re-

plevied. E. lon. An abbreviation of east longitude.

elongation, n.—Elasticity of elongation. See **train!—Percentage of elongation. See elongation **train.

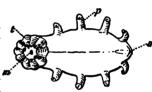
See elongation **train.

See cut under squawroot.

elpasolite (el-pă'sō-līt), n. [El Paso, a county in Colorado, + -lite for Gr. λίθος, stone.] A fluoride of aluminium, potassium, and sodium, perhaps analogous to cryolite in composition: found in El Paso county, Colorado.

Elpidia (el-pid'-i-ä), n. [NL. (Théel, 1876).] The typical genus of the family Elpidiidæ. Elpidiidæ (elpi-dī'i-dē), n. m. pl. [NL., $\langle El-$ pidia + idæ.] A family of deep-sea holothuri-

ans of the or-



Ventral View of Elpidia glacialis, Th. a, anus; m, mouth; p, tube-foot; t, tentacle. (From Lankester's "Zoology.")

ans of the order Actinopoda. They have the body generally flattened ventrally, mouth more or less ventral, tentacles from 10 to 20, stone-canal single, respiratory trees absent or rudimentary, calcareous ring of 5 or 10 pieces, and the spicules of various shapes. The family contains about 20 genera, of which Elpidia is the typical one.

elpidite (el'pi-dit), n. [Gr. $i\lambda\pi i\varsigma$ ($i\lambda\pi i\varsigma$), hope, f- ite^2 .] A silicate of zirconium and sodium occurring in from white to brick-red masses, rarely in orthorhombic crystals: found in southern Greenland.

southern Greenland.

eltrot (el'trot), n. [Also altrot, heltrot, hillrot, hillrot, eldertrot, eldroot, eldrop, etc.; a not understood compound of E. dial. elt, yelt, var. of gilt, AS. gilte, a young sow, + root1.]

1. The cow-parsnip.—2. The water-parsley.—3. The wild or cow parsley.—4. The wild carrot.—5. A stalk of certain plants, especially the wild parsley. [Prov. Eng. in all nass.] uses.]

elutor (ē-lū'tor), n. [NL. *elutor, < L. eluere, wash out, < e, out, + -luere, lavare, wash: see lava.] A vessel in which tribasic calcium suelutor crate, produced by the addition of lime to beet-root molasses, is washed with dilute alcohol in order to free it from impurities before it is decomposed by carbon dioxid and crystallizable sugar thereby recovered from it.

elutriator (ē-lū'tri-ā-tor), n. [NL. *elutriator, \ L. elutriare, wash out, rack off, \ eluere, wash out: see *elutor.] An apparatus for the analysis of finely divided solids, such as soils, by means of which the particles of different size and weight are separated from each other by falling through water or a current of water. See cut in middle column.

cluvial (ē-lū'vi-al), a. [eluvium + -all.] Of the nature of eluvium; formed by wind-drift or atmospheric weathering: as, eluvial accu-mulations. Nature, XXIII. 225.

Elutriator.

a. container for sample: b and bi, reservoirs for water; c, stopcock to control flow of water; d, agitator; c, receptable for coarse particles; f, settling-vessel for fine particles.

eluvium (ē-lū'vi-um), n. [NL. *eluvium, parallel to L. eluvio(n-), a washing away, (eluere wash out: see *elutor. Cf. alluvium.] In geol. an accumulation of dust and soil produced by decomposition of rocks in situ, or drifted by

For atmospheric accumulations of this nature [loess] Trautschold has proposed the name eluvium. They originate in situ, or at least only by wind-drift, whereas alluvium requires the operation of water, and consists of materials brought from a greater or less distance.

Gettie, Text-book of Geol., p. 322.

centage of elongation. See elongation **strain.
elongato-conical (ē-long-gā'tō-kon'i-kal), a. Shaped like an elongated cone.
elongato-ovate (ē-long-gā'tō-ō'vāt), a. Shaped like an elongated egg.
elotillo (ā-lō-til'yō), n. [Mex. Sp. elotillo, dim. of Mex. (Nahuatl) elotl, an ear of green maize.] In Mexico, a name of the fieshy, leafless parasitic plant, Conopholis Americana, which somewhat resembles a small ear of corn.
hanceriais brought from a greater or less distance. Geikie, Text-book of Geol., p. 322.
elvanitic (el-va-nit'ik), a. [elvanite + -ic.] Containing, resembling, or characterized by elvanite.
elydoric (el-i-dor'ik), a. [F. eludorique, erroneously formed from Gr. £λ(aιον), oil, + νδωρ (νδρο-), water, + F. -ique, E. -ic.] Noting a complicated method of painting, invented by Armand-Vincent de Montpetit in the eighten of century, supposed to combine the effects of century, supposed to combine the effects of oil- and water-color.

elytriferous (el-i-trif'e-rus), a. + L. ferre, bear.] Bearing an elytrum: as, an elytriferous segment of certain polychetes. elytrodema (el"i-trō-dō'mā), n.; pl. elytrode-

elytrodema (el"i-trō-dē'mä), n.; pl. elytrodemata (-ma-tä). [NL.] Edema of the submucous tissues of the vagina.
elytroncus (el-i-tron'kus), n.; pl. elytronci (-sī). [NL., ⟨Gr. ἐλυτρον, a sheath (vagina), + δγκος, a mass.] A tumor of the vagina.
elytrophore (el'i-trō-fōr), n. [Gr. ἐλυτρον, a sheath, + -φορος, ⟨φέρειν, bear.] A special part of the parapodial ridge bearing an elytrum, as in some polychætes.
elytrous (el'i-trus), a. Resembling or suggesting the elytra of a beetle.
Elz. An abbreviation of Elzevir.
Elzeviran, n. H. a. Noting a style of book-

Elzeviran, n. II. a. Noting a style of book-making practised by the Elzevir family. See *Elzevir editions*, under *Elzevir*.

E. M. An abbreviation (a) of Engineer of Mines; b) of the Latin equitum magister, master of

ema-fiber (ā'mā-fī'ber), n. The fiber of the ema-noer (a mā-n'ber), n. The fiber of the kendir, Apocynum venetum. See *kendir.
emailloid (e-māl'oid), n. [F. *émailloide, < émail, enamel, + -oide, E. -oid.] A tumor which arises from the enamel of a tooth.
emajagna (ā-mā-hā'gwā), n. [Porto Rico.]
Same as *majagua, 2.
emanation, n. 5. Specifically, in radioactivity, an unstable gaseous disintegration-product spontaneously produced from a radioactive.

emanation, n. b. Specifically, in radioactivity, an unstable gaseous disintegration-product spontaneously produced from a radioactive spontaneously produced from a radioactive substance. The radioactive elements thus far known to give off an emanation are thorium, radium, and actinium. The emanations are inert gases resembling in their chemical relations the gases of the argon group, but differing from these and from all other known chemical compounds in the fact that they are produced as disintegration-products continuously at a rate which is independent of the temperature and the chemical and physical state of the compounds from which they are formed and which are converted spontaneously into other and non-volatile disintegration-products at a constant rate. The existence of an emanation, which is produced only in very small quantities, is detected by means of its radioactive effects. The rate at which it is produced and at which it disappears by disintegration is determined from the change in the intensity of these effects, and it is by such observations that the emanations of radium, thorium, and actinium are distinguished from one another. The radium emanation differs from the others in that it is the first disintegration-product of that element, whereas with thorium and actinium the emanation in the case of the former is the fifth, and in the case of the latter the third, disintegration-product to be produced. These three emanations differ greatly in the degree of instability which they exhibit. The rate of decay (which measures the rate at which the radium emanation is converted into the next following and non-volatile disintegration-product) is comparatively slow, about 3.7 days being required to reduce its activity to one half; whereas the thorium emanation suffers the corresponding reduction in about one minute, and the actinium emanation in 3.9 seconds.

The properties of the emanations, which are in the main similar, have been most completely studied in the case of radium emanation. Its chemical inertness is shown by the fact that it will pass through tubes containing reagents which absorb all gases except those of the argon family, that it is unaffected by the electric spark in an atmosphere of oxygen, and that it may be kept in contact with incandescent magnesium or calcium for hours without loss. Both radium emanation and thorium emanation are capable of condensation at low temperatures, the point of liquefaction of the thorium emanation being 120°C. All three emanations are radioactive, giving off a-rays, and they possess the property of imparting temporary radioactivity to all substances with which they come in contact. This imparted radioactivity disappears much more slowly than the emanation set ardioactivity, is own law of decay, and the imparted radioactivity is of the same character, whatever the nature of the substance affected. The imparted radioactivity, or excited radioactivity, is ascribed to the formation, on the surface of the body made active, of a solid disintegration, product; and it has been found possible to remove this product by rubbing the surface of the body made active, of a solid disintegration, product; and it has been evaporated. Thus it appears that a film of radioactive matter is deposited upon surfaces with which the emanation comes in contact, and that this active deposit consists of a series of successive disintegration-product of the emanation comes in contact, and that this active deposit consists of a series of changes of this sort has been traned, and the surface of the dish after the acid has been evaporated. Thus it appears that a film of radioactive matter is deposited upon surfaces with which the emanation comes in contact, and that this active deposit consists of a series of changes of the dish fact the active matter is deposited upon surfaces with which the emanation comes in contact, and that this active deposit co

logical theory of emanation.

His idea on the Word bore the impress of emanatism.

Cockran, Pressensé's Rep. to Renan, p. 21. N. E. D.

emancipative (ē-man'si-pā-tiv), a. [emancipate + -ive.] Having the property of emancipating; serving to emancipative knowledge. Fitzedward Hall, Hindu Philos. Syst.

emanium (e-mā'ni-um), n. [NL., irreg. < L. emanare, emanate.] A radioactive substance separated from pitchblende by Giesel. It was at first believed to be a distinct element, but was afterward shown to be identical with the actinium of Debierne (see *actinium, 2).

emarginate, v. t. 2. [An erroneous use of the word, as if 'to bring out the margin' (into view). The proper word would be "demarginate, parallel to delimitate, etc.] To render visible or conspicuous the boundary or margin of (something); specifically, to bring out clearly the outlines of (objects under the microscope) by adjustment of the focus and lighting. lighting. emasculate, v. t. 4. In plant-breeding, to re-

move the anthers from a hermaphrodite flower in order to prevent self-fertilization. In case of monœcious plants, as Indian corn, the whole male inflorescence is removed. See *detasseling.

emasculative (ē-mas'kū-lā-tiv), a.

emasculative (e-mas ku-la-tiv), a. Tending or serving to emasculate (in any sense).

émaux ombrants (ā-mo zōn bron'). [F., 'shading enamels.'] In pottery and tite-making, enamels in which the design is modeled in intaglio and tinted glaze is poured in to a level with the surface. The different thicknesses of glaze produce the lights and shades of a picture, on the principle of lithophanes.

embarcadero (em-bär-kä-dā'rō), n.

or innophanes,

embarcadero (em-bär-kä-dā'rō), n. [Sp., <
embarcar, embark.] A wharf; a quay. [Spanish America and Philippine Is.]

Embayed mountain. See *mountain.

embedment (em-bed'ment), n. [cmbed +
-ment.] 1. The act of embedding or the state
of being embedded or firmly fixed in some
surrounding mass.—2. The mason work, clay,
cement, or the like, in which something is or is
to be embedded. to be embedded,

embelic (em-bel'ik), a. [Embelia + -ic.] ting an acid, an orange-colored crystalline principle, $C_0H_{14}O_2$ or $C_{18}H_{28}O_4$, obtained from the dark-red fruit of *Embelia Ribes*: said to be anthelmintic.

embira (em-bē'rā), n. [Tupi embira, bark, bast.] A name in Brazil of a number of trees which yield bast-fiber, especially of Xylopia frutescens and X. sericea. The name embira branea (white bast) is applied to X. grandifors and Daphnopsis Brasiliensis and embira guassa to Bombaa pubescens, the fiber of which is strong and resembles jute in color.

emblematology (em-blem-a-tol'o-ji), n. [Gr. ξμβρνον, embryo, + ½νεοις, generation.]

The generation of embryos, or development from embryos; embryos; embryos; embryos; embryos; the subject-matter of the science of emblemosts, the study of the origin and significance of emblems.

emblemist (em'blem-ist), n. [emblem + -ist.]

A writer or inventor of emblems as, "Quarles the Emblemist "Souther Doctor I. xlviii" who is versed in the science of embryography or embryology; an embryologist.

origin and significance of emblems.

emblemist (em'blem-ist), n. [emblem + -ist.]

A writer or inventor of emblems: as, "Quarles the Emblemist," Southey, Doctor, I. xlviii.

embody, v. t. 3. To paint with body or solidity. See impasto.

emboîtement, n. 2. In anut., the fitting of one bone, or assemblage of bones, into another, as a box fits within its cover. N. E. D. [Rare.]

embole (em'bō-lē), n. [NL., < Gr. ἐμβολή, insertion.] Same as emboly.

embolism. n.—Ar embolism. obstruction to the pas-

sertion.] Same as emboly.

embolism, n.—Air embolism, obstruction to the pasage of blood by the froth which results from the entrance of air into the circulation.—Bacillary embolism, obstruction in a small blood-vessel caused by an aggregation of micro-organisms.—Fat embolism, obstruction in a blood-vessel caused by fat-globules, a condition sometimes observed in cases of fracture of a long bone.

embolo (em-bō'lō), n. [Aboriginal name, southwest Africa.] The bluish, fleshy, edible fruit of Euclea Pseudebenus, a shrub or small tree of southwest Africa yielding the Orange River ebony. See *Euclea, 2.

embolus, n. 4. The terminal portion of the digital joint of the palpus of a male spider, containing an orifice near the tip through which

taining an orifice near the tip through which the seminal fluid is collected and later ejected.

Palpus. . . The embolus of the bulb has a stout erect spurspringing from the cavity below the apex of the lamina of the bulb, while the embolus itself is short, strongly curved, and conspicuously fianged on each side.

Proc. Zool. Soc. London, 1908, L 161.

Embossed printing. See *printing, embossing-machine, n. 4. A machine which stamps a figure or design on leather, such as alligator or seal, as it passes under or through the steel plates or rollers on which the figure or design has been cut.

embossing-press, n. 2. A press which has dies for embossing coins, jewelry, and silverware. The unper die is fixed to the ton of the frame.

dies for embossing coins, jewelry, and silver-ware. The upper die is fixed to the top of the frame, and the lower die, carrying the blank, is moved upward against it under heavy pressure. embouchement (on-bösh-mon'), n. [F., < em-boucher, open into another body: see embou-chure.] The opening of one vessel into an-other: as, the embouchement of the cloaca. embouchure, n. 3. In vocalization: (a) The position of the vocal organs in forming a tone. (b) The particular character of the tone itself, especially at its beginning. Occasionally the term is further defined as palatal, dental, etc.. term is further defined as palatal, dental, etc., according to the apparent position of the center of resonance.

embouchure-tube (on-bö-shür'tüb), n. The cavities of the pharynx and mouth collectively, when used in vocalization.

embowerment (em-bou'er-ment), n. [embower +ment.] The act of embowering or of placing within a bower: as, the embowerment of Mrs. Pipchin. Dickens, Dombey and Son.

Mrs. Pipchin. Dickens, Dombey and Son.

embrasure (em-brā'zūr), v. t.; pret. and pp.

embrasured, ppr. embrasuring. [embrasure,
n.] To furnish with embrasures, as a wall or

fort: used chiefly in the past participle.

embreastment (em-brest'ment), n. [em-+

breast + -ment.] A breast-like swelling on the

surface of the ground. Coleridge. N. E. D.

embrittle (em-brit'l), v. t., pret. and pp. em
brittled, ppr. embrittling. [em-+ brittle.] To

make brittle, or liable to break under sudden

load or shock. This result will followany cause which load or shock. This result will follow any cause which raises the elastic limit relatively to the ultimate resistance of the material, or which lowers its ductility. Hardening of steel in the tempering process does this.

Sudden cooling hardens and embrittles steel and cast ron. Encyc. Brit., XXIX. 574.

2. A brocaded fabric of gold, embrocado, n. silver, and silk.

salver, and salar.

embryectomy (em-bri-ek' tō-mi), n. [Gr. Embrys (em'briks), n. [NL., (†) irreg. < Gr.

tμβρυον, embryo, + ἐκτομή, excision.] Removal of the embryo by an operation, in cases

fishes of the North Pacific, belonging to the of extra-uterine pregnancy.

embryo, n.—Heracanth embryo, a tapeworm embryo having six chitnoid hooks by which it bores its way through the wall of the alimentary canal of its host to enter the body cavity or to become encysted in the voluntary muscles.

embryoctonic (em'bri-ok-ton'ik), a. Relating to embryoctony; destructive to the fetus in the uterus.

or embryology; an embryologist.
embryol. An abbreviation of embryology.

embryol. An abbreviation of embryology.

embryology, n.—Experimental embryology, the study of the development of eggs and embryos under artificial conditions. Among the many remarkable discoveries made by experimental methods in embryology are the following: that some unfertilized eggs may be made to develop in a normal or nearly normal way by treatment with certain inorganic aubstances; that perfect but diminutive embryos may be produced from the separated cells of an organism during its early stages of development that a small nucleate fragment of an unfertilized egg may be fertilized and give rise to a diminutive embryo; and that the constituent cells of certain embryos may be shifted around with reference to one another without affecting the future history of development.

embryoma (em-bri-ō'mä), n.; pl. embryomata (-ma-tä). [NL., < Gr. ἐμβρουν, embryo, + -oma.] A tumor composed wholly or in part of fetal tissues or structures.

Embryonic shield, variation. See *shield,

*variation. embryonoid (em'bri-on-oid), a. [embryon + -oid.] Resembling an embryo in form or

structure. embryopathology (em'bri-ō-pā-thol'ō-ji), n. [Gr. εμβρνου, embryo, + Ε. pathology.] The study of abnormal embryos or of pathological conditions traceable to defective development. embryophore (em'bri-ō-fōr), n. [Gr. ἔμβρυον, embryo, + -φορος, < φέρευν, bear.] A cellular envelop inclosing the six-hooked oncosphere,

or tapeworm embryo.

Embryophyta (em-bri-of'i-tä), n. pl. [NL. (Engler, 1892): see *embryophyte.] A great division of the vegetable kingdom, including all plants which possess an embryo proper, these being also the only ones which have vas cular tissues. It is therefore the equivalent of the vascular plants of other authors. The Embryophyta are subdivided by Engler into the Embryophyta asiphonograma and the Embryophyta is iphonogram, the former of which is the same as the *Archegoniatæ, recognized by him as synonymous, while the latter is the same as the Phanerogamia or Spermatophyta.

embryophyte (em'bri-o-fit), n. [NL. embryo-chytus]

phytum, \langle Gr. $\ell\mu\beta\rho\nu\sigma\nu$, embryo, + $\phi\nu\tau\delta\nu$, a plant.] A plant generated by means of an embryo; a plant belonging to the group Em-

bryophyta. embryothlasis (em-bri-oth'la-sis), n. [Gr. $\ell\mu\beta\rho\nu\nu$, embryo, $+\theta\lambda\delta\sigma\nu$, break, $<\theta\lambda\delta\nu$, break.] In surg., the operation of breaking the bones of the fetus, in cases of difficult labor, to facil-

itate its removal.

embryothlast (em'bri-ō-thlast), n. Same as embryothlasta.

embryotome (em'bri-ō-tōm), n. [Gr. ἐμβρνον, embryo, + -τομος, < ταμείν, cut.] An instrument for dismembering the fetus in embry-

 embryotroph (em'bri-ō-trof), n. [Gr. εμβρυον, embryo, + -τροφος, < τρέφειν, nourish.] In embryol., that which nourishes the embryo; the food-yolk or deutoplasm.

embryotrophy (em-bri-ot'rō-fi), n. [Gr. ξμ-βρυον, embryo, fetus, + -rροφα, < τρέφειν, nour-ish.] The nutrition or nourishment of the embryo.

embryulcia (em-bri-ul'si-ä), n. [NL., < Gr. εμβρνουλκία, < ἐμβρνουλκός, an obstetric forceps; see *embryulcus.] In surg., instrumental ex-

see *combryulcus.] In sury., instrumental extraction of the fetus.

embryulcus (em-bri-ul'kus), n.; pl. embryulci
(-si). [NL., < Gr. ἐμβρυουλκός, an obstetric forceps, < ἐμβρυου, embryo, + ἐλκειν, draw.]

A hook-shaped instrument used in the forcible extraction of the fetus.

family of Zoarcidæ.

emendate (ë-men'dāt), v. t.; pret. and pp.

emendated, ppr. emendating. [L. emendare (pp.

-atus), emend: see emend.] To remove errors and corrupt readings from (a text).

First, then, he compared, emendated, and transcribed the text of Scripture.

J. H. Newman, Hist. Sketches, III. v. 5.

[Gr. emerald, n.—Brazilian emerald, a jewelers name ferre, for the rich green variety of tournalin found in Brazil. See tournatin.—Ecclesiastical emerald. Same as translations as the second of the s

Brazilian **emerald.*

6mergence, n.—Graxing emergence, in optics, emergence of a ray of light from within a refractive medium in a direction such that the angle of refraction is nearly 90° and the ray, after leaving the denser medium, travels nearly parallel to the interface.—Path of emergence, in geol., the path followed by the undulations of an earthquake from the focus to the point of emergence.

Emergency brake. See **brake**

6merse (ë-mers'), v. t.; pret. and pp. emersed, ppr. emersing. [L. emersus, pp. of emergere, emerge: see emerge.] To rise, or cause to rise, from a liquid: opposed to immerse.

The following rules express, with a considerable amount of accuracy, the number of tons required to immerse or emerse the ship one inch when floating at her load-draught.

White, Manual of Naval Arch., p. 7.

emersion, n.—wedge of emersion. See *wedge! emery (em'e-ri), v. t.; pret. and pp. emeried, ppr. emerying. [emery, n.] 1. To coat or cover with emery, as in making emery-cloth, emerypaper, or the like.—2. To rub or polish with emery or with emery-paper, emery-cloth, etc. emerylite (em'g-ri-lit), n. [emery + Gr. λίθος, stone.] In mineral., a silicate of calcium and aluminium better known as margarite (which

see).

emery-surfacer (em'e-ri-sèr'fā-sèr), n. A surface-grinder; a machine in which a broad, solid emery-wheel is employed to finish a flat surface. The work to be surfaced is fastened to a sliding table guided to move on a true plane surface, and passed underneath the revolving wheel.

emetatrophia (em'e-ta-trō'fi-ā), n. [NL., < Gr. ἔμετος, vomiting, + -τροφια, < τρέφειν, nourish.] Wasting of the body resulting from the persistent vomiting of food.

persistent vomiting of food.
emetic-root (e-met'ik-röt), n. The flowering
spurge, Euphorbia corollata. See spurge².
emetocatharsis (em'e-tō-ka-thār'sis), n. [NL. The flowering

Combined vomiting, + κόθαρους, purging.]
Combined vomiting and purging.
emetomorphine (em'e-tō-mōr'fin), n. [Gr. εμετος, vomiting, + E. morphine.] Same as

apomorphine.

E. M. F.—Contact E. M. F. See contact **electro-motive force.

emfasis, emfasize, emfatic. Simplified spellings of emphasis, etc.
emigrant, n. 2. In biol., one of a generation of parthenogenetic insects which migrate from the plant upon which they were born to a plant of another kind upon which they multiply.

A winged parthenogenetic generation frequently appears, and then may migrate to a different plant there to reproduce itself, and in a later generation return to the original host. . . These generations have been distinguished . . . as emigrants, alienocole, and remigrants.

Proc. Amer. Philos. Soc., 1903, p. 297.

emigrationist (em-i-grā'shon-ist), n. [emi-gration + -ist.] One who favors or advocates emigration—for example, as a remedy for dull times, overcrowding, or the like. emigratory (em'i-gra-tō-ri), a.

emigratory (em'i-gra-tō-ri), a. Migratory. [Rare.]

Emilia (ē-mil'i-ā), n. [NL. (Cassini, 1817), appar. from a personal name.] A genus of plants of the family Asteraceæ, allied to Senecio, but with simple involucre, no ray-florets, and achenia with 5 scute ciliate angles. They are natives of Africa, tropical Asia, and Oceanica. They are of general interest only from the tassel-flower or lady's paint-brush, an old-fashioned garden annual known under a number of botanical names, being referred to both Senecio and Cacalia, but now distinguished as Emilia sagitata. It is an attractive plant of easy culture, bearing small scarlet or sometimes golden-yellow heads. Emilian. a. II. n. An inhabitant of the prov-

Emilian, a. II. n. An inhabitant of the province of Emilia, Italy. Emin red. See *red1. eminent, a. 5. In mineral., highly perfect: said of cleavage.

emission, n.—Coefficient of emission. See *coefficient.—Emission spectrum. See *spectrum.—Belective emission, emission of light confined to certain regions of the spectrum; selective radiation.

emission-band (e-mish on-band), n. In optics, a band of light, or of infra-red or ultra-violet radiation, occupying a limited region of the radiation, occupying a limited region of the spectrum. Emission-bands are distinguished from bright lines in the spectrum by the fact that they are not monochromatic.

emission-line (ë-mish'on-lin), n. One of the bright lines in the spectrum of an element: opposed to absorption-line.

emissivity, n. Specifically—2. A physical constant by means of which the power of radiation of a body is quantitatively expressed. It

is the quantity of heat emitted per second by a square centimeter of the surface of the body when the difference of temperature between the body and its surroundings is one degree centigrade. Emissivity is frequently used as the equivalent of emissive power or coefficient of emission, which is the radiating power of the body as compared with that of an ideal black body at the same temperature.

See radiation.

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**empiricistic* (em-pir-i-sis'tik), a. [empiricist +-ic.] Same as empiristic.

An empiricistic psychology [of Bernardino Telesio], the singular completeness and consistency of which accounts for its wide influence on Italian philosophy.

Jour. Philos., Psychol. and Sci. Methods. May 98 1044

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**Jour. Philos., Psychol. and Psychol.

emmensite (em'en-zit), n. [Emmens (see def.) + -ite².] A name given by Dr. Emmens of New York to a class of explosives proposed by him. The chief varieties were No. 35, for blasting, consisting of pieric acid with sodium and ammonium nitrates; No. 259, for military and naval use, consisting of the same ingredients and dinitrobenzene; and No. 5, proposed as a substitute for gunpowder, consisting of pieric acid, sodium nitrate, and charcoal or flour.

acid, sodium nitrate, and charcoal or flour.

emmer (em'er), n. [G. emmer, a dial. form of amer: see amel-corn.] A species of wheat, Triticum dicoccum; amel-corn. Though commonly known as Russian spelt, it differs markedly from true spelt, having the heads much flattened and very compact, the spikelets in two rows, almost always bearded, and usually two-seeded, and being much more hardy. It is produced in some quantity in Russia and several European countries, but the grain is used rather for grits, porridge, etc., than for bread. Varieties have recently been experimentally introduced into the United States. See amel-corn and gommer.

See amel-corn and gommer.

emolos (ā-mō-lō'ā), n. [Hawaiian *emolos.] A grass, Eragrostis variabilis, indigenous to the Hawaiian Islands. It grows in tufts from one to three feet high, and is distinguished from all other Hawaiian grasses by the roughness of its rachis and branches of the panicle. Also called kalamalo.

emolumentary (ē-mol-ū-men'tā-ri), a. [emolument + -aryl.] Productive of emolument or profit; financially advantageous.

emotion. n.—Asthenic emotion.

pront; mancially advantageous.

emotion, n.— Asthenic emotion, in psychol., weakening, depressing, paralyzing emotion: thus, fear and anxiety are asthenic emotions. The distinction between sthenic and asthenic emotions is due to Kant.— Sthenic emotion, in psychol., emotion which is accompanied by heightened muscular innervation and the corresponding feelings of power or activity, such as joy or anger: opposed to asthenic emotion.

Emotional memory. Same as *affective memory.

ory

emotionalize (ē-mō'shon-al-īz), v. t.; pret. and pp. emotionalized, ppr. emotionalizing. To render emotional; infect with emotional ex-citement; regard as a mere matter of emotion.

A pious family, where religion was not emotionalized. Froude, Carlyle, I. v.

4. [cap.] The trade-name of a emperor. n. standard quality of fine English drawing-paper made in sheets 72 by 48 inches.—Goatweed emperor, a nymphalid butterfly, Anea andrid, whose larva feeds on the goatweed found in the western United States from Illinois to Texas.—Gray emperor, a nymphalid butterfly, Chlorippe celtis, whose larva feeds on hackberry.

empetraceous (em-pe-tra'shius), a. Belong-

ing to the plant-family Empetracese. Empetrichthys (em-pe-trik'this), n. $\langle Gr. \dot{\epsilon}\nu$, in, $+ \pi \dot{\epsilon}\tau \rho a$, rock, $+ i\chi \partial \nu \zeta$, fish. The



Death Valley Fish (Emsetrickthys merriami, Gilbert)

name alludes to the large pharyngeal bones.] A genus of poscilioid fishes remarkable for the great size of the pharyngeal bones and teeth.

E. merriami is found in the desert springs of Death Valley, California.

emphraxis (em-frak'sis), n. [NL., < Gr. ξμφραξις, obstruction, < ἐμφράσσειν, shut up, < ἐν, in, + φράσσειν, fence in, shut up.] Obstruction of a canal or duct by some morbid

emphysema, n.—Subcutaneous or surgical emphysema. Same as interstitial emphysema. empided (em'pi-did), n. and a. I. n. A mem-

ber of the family Empididæ.

II. a. Of or belonging to the dipterous fam-

ily Empididæ.

ily Empididæ.

Empire style, a name applied, in the history of French decorative art, to the types developed during the supremacy of Napoleon I., especially by the imperial architects Percier and Fontaine. Interesting examples of the empire style are illustrated in Percier and Fontaine's "Recuell des Décorations Intérieures" (Paris, 1801). The empire style is contemporaneous with the classical school of Jacques Louis David. See French schools of *painting.—The New Empire, the great historical period inaugurated in ancient Egypt on the expulsion of the Hyksos or Shepherd Kings by Aahmes (Amasis), the founder of the eighteenth dynasty about 1700 B. C.

Empiric function. See *function.

Empiric function. See *function.

empirico-psychological (em-pir'i-kō-sī-kōloj'i-kal), a. Pertaining to or characteristic of empirical, as distinguished from speculative or philosophical, psychology.

The principle of psycholphysical parallelism has an empirico-psychological significance, and is thus totally different from certain metaphysical principles that have sometimes been designated by the same name.

W. Wundt (trans.), Outlines of Psychol., p. 318.

empiriocritical (em-pir'i-ō-krit'i-kal), a. Of or pertaining to empiriocriticism.

or pertaining to empiriocriticism.

empiriocriticism (em-pir'i-ō-krit'i-sizm), n.

[Gr. ἐμπειρία, experience, + N.L. criticismus, criticism.] The system of philosophy of Richard Avenarius (1843–96), founded on pure experience, that is, natural experience conceptually amplified, clarified, and completed. The only assumption of the system not given in experience is supposed to be that the motions of our fellow-men have the same interpretation as our own. This is one of the most important philosophical developments of the latter half of the nineteenth century, but is understood by few, owing to the difficulty of its author's principal treatise and his employment of a novel terminology, which is insufficiently explained.

Empirio-criticism. . . is the hypothesis of the insep-

Empirio-criticism . . . is the hypothesis of the inseparability of subject and object, or . . . of ego and environment, in purely empirical, or a posteriori form.

Encyc. Brit., XXX. 668.

emplastrum (em-plas'trum), n.; pl. emplastra (-trä). [L., ζ Gr. εμπλαστρον, plaster.] Same as plaster, 1.

empleomania (em-plā'ō-mā-nē'ā), n. [Sp., < empleo, employ, + mania, mania.] A mania for public employment; a thirst for public office and its opportunities for personal enrichment.

The empleomania, which is the dry-rot of Spain, as it threatens to become of the United States, supplies every leader with a momentarily devoted band of adherents.

Lowell, in The Century, Nov., 1898, p. 144.

empress, n.—Red empress, an old English collectors' name for Vaness polychloros, more commonly known as the large tortoise-shell.

emprosthotonic (em - pros - thō - ton 'ik), a. [emprosthotonics + -ic.] Characterized by the tonic muscular spasm known as emprosthotonos.

emptor (emp'tor), n.; pl. emptores (-tō'rēz).

[L., < emerc, buy.] In law, a buyer. Its most frequent use is in the maxim caveat emptor, 'let the buyer take heed'—that is, a purchaser of property without warranty takes it at his own risk.

warranty takes it at his own risk.

empyema, n.—Mastoid empyema, suppurative infammation of the nucous membrane which lines the cavities in the mastoid process.

Empyreal air. See *air1.

Emscherian (em-shē'ri-an), n. [G. Emscher, or Emsche, a small river in west Prussia.] In geol., a division of the Senonian in western Europe, comprising the two Cretaceous substances (conjusion and Sentonian). Europe, comprising the two Cretaceous substages, Coniacian and Santonian. It is preceded by the Turonian (Angoumian substage) and followed by the Campanian. In the Anglo-Parisian Basin it is characterized by Micraster cor-testudinarium (Coniacian) and M. cor-anguinum (Santonian), and in southern France by Hippurites.

emul, n., 2. (d) A name erroneously applied

to the rhea, or South American ostrich.

emu-apple (ē'mū-ap'l), n. A name of two
Australian trees and their fruits: (a) Rancooria acidula (Owenia acidula of F. von Mueller), belonging to the mahogany family, with fruits the size of a small peach, which are eaten by the colonists and aboriginals. (b) Same as

*bitter-bark, 1. emu-bush (e'mū-bùsh), n. A name of two Australian shrubs or small trees, Stenochilus longifolius, of the family Myoporaces, and Heterodendrum olesfolium, of the soapberry family, whose leaves are greedily eaten by sheep, affording food when grass and other herbage are killed by drought and heat. Called also emu-

emulsifier (ē-mul'si-fi-èr), n. An agent, such as gum arabic, employed to effect the emulsification of a fixed oil.

fication of a fixed oil.

emulsion, n.—Bromide emulsion, in photog., finely divided silver bromide suspended in gelatin. It is made by adding silver nitrate and a soluble bromide to warm gelatin, cooling the mass, and thoroughly washing the felly. The mass is next worked into a state of fine division. All operations are conducted in a dark room.—Chlorid emulsion, in photog., an emulsion consisting of silver chlorid suspended in gelatin: largely used in the preparation of lanternsides. It is not so rapid in action as the bromide emulsion.—Chloriodobromide emulsion, in photog., finely divided silver chlorid, bromide, and iodide suspended in gelatin.—Chlorobromide emulsion, in photog., finely divided silver chlorid and bromide suspended in gelatin.—Col-

enamel-prism

lodiobromide emulsion, in photog., finely divided silver bromide held in suspension in collodion. Used in the preparation of sensitive surfaces on glass or paper.—
Collodiobromochlorid emulsion, in photog., finely divided silver bromide and silver chlorid held in suspension in collodion: nsed in the preparation of sensitive surfaces on glass or paper.—Collodiochlorid emulsion, in photog., an emulsion consisting of silver chlorid in a finely divided state held in suspension in collodion. Two varieties are made: one needing development when used, the other serving for 'printing-out.—Collodion-albumin emulsion, in photog., an emulsion consisting of collodion to which a small quantity of albumin has been added, together with zinc bromide and silver nitrate, to render it sensitive to light.—Collodion emulsion, in photog.;

(a) Washed, a collodion sensitized by the use of zinc bromide, silver nitrate, and nitric acid, and allowed to evaporate. The pellicle is washed with water, then with alcohol, and is afterward emulsified with ether and alcohol. (b) Unwashed, a collodion containing finely divided silver bromide held in suspension.—Gelatin emulsion, finely divided esilver bromide held in suspension in gelatin.—Gelatino-chlorid emulsion, in photog., finely divided silver chlorid emulsion, in photog., finely divided silver chlorid emulsion.—Kerosene-soap emulsion, an emulsion of kerosene and silver intrate is added the image is printed out by the action of light.—Kerosene-soap emulsion, an emulsion of kerosene emulsion. See kerosene-soap *emulsion.—Kerosene-soap emulsion, an emulsion of kerosene emulsion when except in boiling water and immediately added to the total that in the soap, used as a standard insecticide. The best formuls is kerosene emulsion. See kerosene-soap *emulsion. See kerosene-soap *emu

forcing air down a tube and allowing it to escape at the mouth of a vertical discharge-pipe. As the air rises it carries water along

emu-tree (6'mū-tre), n. Same as *emu-bush. emydosaurian (em'i-dō-sâ'ri-an), a. and n. I. a. Relating to or having the characters of the Emydosauria.

II. n. A member of the order Emydosauria: a crocodilian.

en., enc. Abbreviations of encyclopedia.
enable, v. t.—Enabling act, an act or a statute which removes a restriction or disability and empowers a person or a corporation to do what he or it could not do.

enaction (e-nak'shon), n. [enact + -ion.] The act of enacting or the state of having been enacted or made law; enactment.

enactory (e-nakt'o-ri), a. [enact + -ory.] Of
the nature of an enactment or of enactments; relating to enactments: as, bills enactory and declaratory.

enaena (ā-uā-ā'nā), n. [Hawaiian *enaena.] A composite plant, Gnaphalium luteo-album, widely distributed over the warmer parts of the earth, with heads of brownish flowers. See Jersey livelong, under livelong². [Hawaii.] enalid (en'a-lid), n. [NL. Enalus, also Enhalus (L. C. Richard) (see def.) ($\langle Gr. \dot{\epsilon}v, in, + \dot{\epsilon}\lambda\zeta,$ sea), $+ -\dot{\epsilon}d^2$.] A plant with the ecological character of the genus Enhalus, family Vallisness See sea organ.

neriaces. See sea-grass.
enamel, n. 8. The firm white substance which snamel, n. 8. The firm white substance which covers the bony scales of some ganoid fishes.

—Bilston enamel, painted ename on copper produced at Bilston, Staffordshire, England, in the latter half of the eighteenth century: usually consisting of small objects such as snuff-boxes, patch-boxes, and trinkets. Compare Battersea enamel, under enamel.—Cluny enamel, pottery decorated with colored enamels by the method practised at Cluny and Longwy, France, and at other places. Outlines of the designs are first applied to the surface of the ware in black or dark color containing iron, which repels the enamels. The spaces between are then filled in with relief enamel colors, which, after firing, resemble cloisonné enameling, appearing as convex drops, raised in the center and thin at the edges. Also called Longwy enamel.—Stanniferous enamel, in ceram., a thick, opaque glaze, of milky whiteness, containing oxid of tin; tin enamel. It resembles white-lead paint. This enamel is used on majolica and delf.—Tin enamel. Same as tanniferous *enamel.*

enamel-cell (e-nam'el-sel), n. One of the cells which are concerned in producing the enamel in the embryonic tooth; an adamantoblast or ameloblast.

enamelionate.

enameling-furnace (e-nam'el-ing-fer'nās), n.

A furnace used for vitrifying the enamel coating on metal, glass, or biscuit. The work is placed in a muffle, which consists of an arched chamber in the midst of a small furnace.

enameling-lamp (e-nam'el-ing-lamp), n. A glass-blower's lamp with a blowpipe for performing some of the more delicate surface

ornamentation on glass.
enamel-prism (e-nam'el-prizm), n. One of the microscopic rods, set side by side in close con-

enamel-pulp (e-nam'el-pulp), n. The central portion of the enamel-organ lying between the incloses the superior part of the dental papilla. enanthem (en⁷an-them), n. Same as enan-

enanthematous (en-an-them'a-tus), a. Relating to or affected with an enanthema.

ing to or affected with an enanthema.

enanthylic, a. Same as αnanthylic.

enantiobiosis (e-nan'ti-ō-bī-ō'sis), n. [NL., <
Gr. ἐναντίος, opposite, + βίωσις, living.] The
living together of organisms which mutually
impede each other's development.

Enantioliparis (ē-nan'ti-ō-lip'a-ris), n. [NL.,

Gr. ἐναντίος, opposite, + NL. Liparis.] A

Gr. ἐναντίος, opposite, + NL. Liparis.] A

denus of snail-fishes of the family Liparidæ, found in the Antarctic Ocean.

Found in the Antarctic Ocean.
enantiomorph (e-nan'ti-ō-môrf'), n. [Gr. εναντίος, opposite, + μορφή, form.] Noting the stereomeric isomer of a compound containing one or more asymmetric carbon atoms: thus.

patnia, or disease of the brain.

word is also used of crystals.

enantiomorphism (e-nan'ti-ō-môr'fizm), n.

1. The property or condition of being enantiomorphous. Specifically — 2. In crystal., the relation of similarity of form between crystals which are not superposable, so that one of two crystals differs from the other crystals differs from t its own image in a mirror. See enantiomor-

enantiomorphously (e-nan'ti-ō-môr'fus-li), In an enantiomorphous manner: as, enantiomorphously related crystals

enantiotropic (e-nan'ti-ō-trop'ik), a. [Gr. εναντίος, opposite, + -τροπος, ζ τρέπειν, turn.] In phys. chem., capable of transformation in opposite directions.

Sulphur is enantiotropic: if rhombic sulphur, which is stable below 96° C. is kept at a temperature above 96° C. but below its melting point, it is transformed into monocilnic sulphur; and if monocilnic sulphur, which is stable at temperatures between 96° C. and its melting point, is kept below 96° C. its transformed into rhombic sulphur. H. C. Jones, Prin. Inorganic Chem., p. 172.

enantiotropy (e-nan-ti-ot'rō-pi), n. The state or condition of being enantiotropic. A. Findlay, The Phase Rule, p. 42.

Enargea (en-är-jō'ä), n. [NL. (Banks, 1788), ζ Gr. ἐνάργεια, clearness, distinctness, ζ ἐναργής, clear, distinct.] A genus of plants of the family Liliacæs. See Luzuriaga.

enarkyochrome (en-är ki-ō-krōm), n. [Gr. kr, in, + $\dot{a}\rho\kappa\nu_{c}$, a net, + $\chi\rho\dot{\omega}\mu a$, color.] In neurol., a nerve-cell in which fine threads of chromatic substance connect the nodal points in the nuclear network or reticulum.

scent is reckoned from father to children. Giddings, Prin. of Sociol., p. 167.

en axe (on äks), [F.] In or upon the axis: used in architecture. Thus, an entrance-door or a fireplace may be on the principal axis of the room, and is then said to be en axe.

en barbette (on bär-bet'). [F.] In barbette; so as to fire over the parapet. See barbette. encarditis (en-kär-dī'tis), n. Same as endocar-

encash (en-kash'), v. t. $[en-1 + cash^{-1}]$, after F.

encash (en-kash'), v. t. [en-1 + cash1, after F. encaisser.] 1. To turn (a note, draft, or check) into cash; cash.—2. To convert into cash; ebtain in the form of cash; realize in cash. encellalgia, encellalgia (en-sē-li-al'ji-ā), n. [NL. encælialgia, ⟨ Gr. ε')κοίλα, the intestures, + άλγος, pain.] Pain located in any of the abdominal viscera.

encelitis, encœlitis (en-sē-lī'tis), n. [NL. en-cælitis, < Gr. ἐγκοϊλια, the intestines, + -itis.] Inflammation of one or more of the abdominal

encephalin (en-sef'a-lin), n. [Gr. ἐγκέφ brain, + -in².] A derivative of cerebrin. [Gr. ἐγκέφαλος,

encephalodialysis (en-sef a lo-di-al'i-sis), n. [NL., ζ Gr. εγκίφαλος, brain, + διάλυσις, dissolution.] Softening of the brain.

encephalolith (en-sef'a-lô-lith), n. [Gr. $\dot{\epsilon}_{\gamma}\kappa\dot{\epsilon}_{\gamma}$ $\phi a\lambda o c$, brain, $+\lambda i\theta o c$, stone.] A concretion within the brain-substance.

a se encephalomatacua.

sincephalomatacua.

s encephalomeningocele (en-sef'a-lō-mō-ning'-

encephalomeric (en-sef'a-lō-mer'ik), a. Of or relating to an encephalomere or brain-seg-

encephalometric (en-sef'a-lō-met'rik), a. [Gr. ἐγκέφαλος, brain, + μέτρον, measure, + -ic.] In anat., relating to measurements of the brain. anat., relating to measurements of the brain.
 encephalomyelitis (en-sef'a-lō-mī-e-lī'tis), n. [NL.. < Gr. εγκέφαλος, brain, + μυελός, marrow, + -itis.] Inflammation of both the brain and the spinal cord.

encephalopathic (en-sef-a-lop'a-thik), a. Of, pertaining to, or of the nature of encephalo-pathia, or disease of the brain.

encephaloscope (en-sef'a-lō-skōp), n. [Gr. εγκέφαλος, brain, + σκοπείν, view.] A tubular device resembling a speculum, with a reflecting mirror or electric light attachment: used for inspecting the brain in operations on the cranium.

the cranium.

encephaloscopy (en-sef'a-los'kō-pi), n. [encephaloscope + -y³.] Examination (not necessarily visual) of the brain.

enchannel (en-chan'el), v. t.; pret. and pp. enchanneled or enchannelled, ppr. enchanneling or enchanneling. [en-¹ + channel.] To confine within its proper channel.

Enchanter's plant, the common vervain, Verbena officinalis.

Enchodontidæ (eng-kō-don'ti-dē), n. pl. [NL., \(Enchodus \) (-odont-) + -idæ.] A family of extinct teleost fishes whose rapacious habit is indicated by their powerful jaws and teeth. The species were without scales, but bore a series of dorsal and lateral bony scutes. They are found only in Cretaceous rocks.

Buchodus (eng'kō-dus), n. [NL., < Gr. εγχος, a spear, + οδοίς (οδοντ-), a tooth.] The typical genus of the Enchodontidæ.

enchondrosis (en-kon-dro'sis), n.; pl. enchondroses (-sēz). [NL., $\langle Gr, \varepsilon v, \text{ in, } + \chi \delta v \delta \rho o c$, cartilage, + -osis.] An outgrowth from cartilage; also, a tumor composed of cartilage,

or chondroma.
enchyma (eng'ki-mä), n. [NI.., ζ Gr. εγχυμα,
in enchyma tous.] A liquid elab-

in the nuclear network or reticulum.

enate (ē'nāt), n. [L. enatus, pp. of enasci, be born, < e, out, + nasci, be born. Cf. agnate, cognate.] A relative on the mother's side.

enatic (ē-nat'ik), a. [enate + -ic.] Pertaining to or characteristic of a clan in which descent is reckoned from mother to children: opposed to agnatic, which designates clans in which descent is reckoned from father to children. Giddings, Prin. of Sociol., p. 167.

en axe (oň äks), [F.] In or upon the axis: used in architecture. Thus, an entrance-door or a packet. Pachydrilus, and several other genera found in fresh and salt water and in damp earth. Enchytreus (eng-ki-tre'us), n. [NL., $\langle Gr. ev, in, + \chi i\tau \rho a$, an earthen pot: see chytra.] The typical genus of the family Enchytræidæ. Henle, 1837.

Henle, 1837.

encinillo (en-thē-nēl'yō), n. [Sp., dim. of encina, oak. It resembles certain European species of oak.] In Porto Rico, an indigenous shrub of the spurge family, Drypetes

oncliticism (en-klit'i-sizm), n. [enclitic + -ism.] In gram., the tendency of a symbolic word to lose its accent in a stronger adjacent (like an enclitic) word. J. Earle, Philol. Eng. encliticism (en-klit'i-sizm), n.

Tongue, ¶ 254.
encœlialgia, encœlitis, n. See *encelialgia,

tact, of which the enamel of the teeth is encephalomalacosis (en-sef'a-l\(\bar{0}\)-mal-a-k\(\bar{0}'\)-m

military adventurers.

encorbelment (en-kor'bl-ment), n. Corbeling (in the general sense of the projection of one mass or surface beyond the substructure) and the construction of it in masonry.

encranial (en-krā'ni-al), a. [Gr. ἐν, in, + κρανίω, skull, + -al¹.] Same as intracranial.

Encrinal limestone. See *limestone.

Encrinasteriæ (eng 'kri-nas-tē'ri-ē), n. pl.

[NL., ⟨ Encrinus, + Gr. ἀστήρ, a star.] A subclass of the Asteroidea or starfishes. They are of paleovice aga and characterized by the alternate are of paleozoic age and characterized by the alternate meeting in the middle of the ambulacral groove of the slightly inclined ossicles and by the position of the madreporite on the oral side of the disk.

Encrinite limestone. See *limestone. encrinoid (eng'kri-noid), a. Pertaining to or having the characters of the pelmatozoan order Encrinoidea.

encurage, v. t. A simplified spelling of en-

courage.

encyclopedize, encyclopædize 'en-sī'klō-pēdīz'), v. t.; pret. and pp. encyclopedized,
-pædized, ppr. encyclopedizing, -pædizing. [encyclopedia + -ize.] To treat, describe, or
arrange as in an encyclopedia, or with encyclopedic fullness, accuracy, and system: as,
to encyclopedize knowledge.

end, n. 10. One length of a piece of woven woolen or cotton goods. In dyeing, 'goods given four ends' means that the piece is passed through the coloring-liquor four times.

11. In mining, that one of two vertical sets of joints in coal which shows the rougher surface. [Eng.] Geikie, Text-book of Geol., p. face. [Eng.] Geikie, Text-book of Geol., p. 660.—Both ends against the middle, asystem of dealing at faro with prepared cards, so that if the end of the layout wins the middle shall lose, or vice versa.—Change of end, in cricket, the shifting of a bowler from one wicket to the other.—End-on tube. See *wtuke.—Law of heterogony of ends, in Wundt's psychology and ethics, the principle that "manifestations of will, over the whole range of man's free voluntary actions, are always of such a character that the effects of the actions extend more on less widely beyond the original motives of volition, so that new motives are originated for future actions, and again, in their turn, produce new effects." W. Wundt (trans.), Ethics, I. 330.—Open-end straight.

endangiitis (en-dan-ji-i'tis), n. [NL., < endan-gium + -itis.] Inflammation of the lining mem-brane of a lymphatic or blood-vessel.

endangium (en-dan-jī'um),n.; pl. endangia (-ä). [NL., ζ (ir. ἐνόον, within, + ἀγγεῖον, vessel.] Same as intima.

endaortic (en-dā-ôr'tik), a. [NL. *endaorta (Gr. ἐνδον, within, + ἀορτή, aorta) + -ic.] Referring to the interior or the liuing membrane of the aorta.

brane of the aorta.
endaortitis (end-ā-ôr-tī'tis), n. [NL., < *endaorta + -itis.] Inflammation of the lining membrane of the aorta.
endarterial (end-ār-tē'ri-al), a. [Gr. ἐνδον, within, + ἀρτηρία, artery, +-al.] Relating to the interior of an artery.
endarteritic (end"är-tē-rit'ik), a. Relating to or affected with endarteritis.

Endarteritis deformans of Virchow
Same as target

Endarteritis deformans of Virchow. Same as *arteritis deformans.—Endarteritis obliterans, endarteritis of the smaller vessels, causing occlusion.—Endarteritis proliferans, a chronic degenerative process marked by an overgrowth of fibrous tissue in the inner layers of the arteries.

end-brush (end'brush), n. The terminal ramification of a motor nerve-fiber in the granular sole of a Doyère's elevation on the side of a muscle-fiber

muscie-noer.

end-bud (end'bud), n. An organ consisting of a number of sensory cells, each bearing sensory hairs, compacted into a bud-like mass. Such organs are scattered over the surface of the body of fishes, but in mammals are confined to the mouth cavity and serve as organs of taste.

Allied to the sense organs of the lateral line are structures known as end buds.

J. S. Kingsley, Vert. Zool., p. 68

**encelitis.*

encoffinment (en-kof'in-meut), n. [en-+coffin + -ment.] The act of placing a corpse in a coffin; coffining.

encoil (en-koil'), v. t. [en-1 + coil1.] To wrap or hold captive in, or as in, a coil. P. J. phys., the correction (end'ko-rek'shon). n. In wrap or hold captive in, or as in, a coil. P. J. phys., the correction to be applied in the determination of the thermal, electrical, or magnetic conductivity of a rod or of the magnetic flux within a coil or of the capacity of a column condenser, on account of the

effect of the ends of the rod or cylinder upon the quantity to be computed.

endecanaphthene (en-dek-a-naf'thēn), n.
[Prop. hendeca-; < Gr. ἐνόεκα, eleven, + naph-thene.] A colorless, liquid hydrocarbon, C₁₁H₂₂, found in Bakú petroleum. It boils at 179-181° C.

endeiolite (en-di'ō-līt), n. [Gr. ἐνόεια, want, lack, + λίθος, stone. Analysis showed a large loss, assumed to be silica.] A rare mineral from southern Greenland, of uncertain composition but containing niobium, zirconium, cerium, iron, calcium, sodium, and probably silicon: it is allied to pyrochlore and occurs in chocolate-brown octahedrons.

endemia (en-de'mi-ä), n. An endemic disease. endemic, a., 2. (b) In phytogeog., properly, confined to a particular region, whether indigenous or not: sometimes confused with indigenous. Originally used (A. P. De Candolle, 1820) of genera whose species are all grouped in one region; later, also of species whose distribution is similarly limited. Compare *polydemic, *pandemic, and sporadic.

endemio-epidemic (en-dē'mi-ō-ep-i-dem'ik), a. Noting an endemic disease when it suddenly assumes increased virulence and attacks

endemiological (en-dē'mi-ō-loj'i-kai), a. Pertaining or relating to endemiology.

endermically (en-de'mi-kal-i), adv. In med., by the endermic method of administering certain medicines, that is, by direct application to the skin.

end-game (end'gām), n. In chess, the third or last stage of a game, arising after the forces on both sides have been sufficiently diminished to make the pawns the paramount issue. other stages are the opening and the middle

endite (en'dit), n. [Gr. èvéov, within, + -ite².]
One of the processes on the inner or mesial border of the leaf-like abdominal appendages of the branchiopod Crustacea.

endive, n.—Sea-endive, any seaweed of the genus Haliseris, translating the genus name.

end-measure (end'mezh-ür), n. A measure of length which is defined by the distance between certain points in the surfaces of the ends of a bar, and not by the distance between lines engraved on the bar. Nature, Aug. 7, 1902, p. 350. end-moraine (end'mō-rān'), n. A terminal moraine

end-motion (end'mo'shon), n. Axial motion; the motion of a part of a machine along the line of its shaft, as distinguished from its motion of rotation.

endoabdominal (en'dō-ab-dom'i-nal), a. [Gr. broon, within, + L. abdomen, abdomen, + -all.]
Situated or occurring in the abdomen.

endobiotic (en'dō-bī-ot'ik), a. [Gr. èvôov, within, + $\beta i\omega\sigma\iota\varsigma$, way of living: see biotic.] Living as a parasite within the tissue of the host, as Chrysophlyctis endobiotica in potato

Endobranchiata (en-dō-brang-ki-ā'tā), n. pl. [NL., \langle Gr. \dot{v} bov, within, $+\beta\rho\dot{\alpha}\gamma\chi u$, gills: see branchiate.] A group of regular Echinoidea, having the mouth and anus at opposite poles, the anus surrounded by the apical system of plates when they are present, and no external gills. It includes the orders Bothriocidaroida, Cystocidaroida, Cidaroida, Melonitoida, and Plesiocidaroida. Compare *Ectobranchiata.

endocannibalism (en-dō-kan'i-bal-izm), n. [Gr. ἐνδον, within, + E. cannibalism.] Cannibalism within the family; the custom of eating parents and relatives. Keane, Man Past and Present, p. 79.

Endocardial murmur. See *murmur.

endocarditis, n.—Infectious or ulcerative endocarditis, a septic form, marked by ulceration of the valves,
leading to loss of substance and permanent impairment of
function.—Plastic endocarditis, a form of endocarditis
marked by a fibrinous exudate which causes adhesions of
the valves to the neighboring parts.

endocellular (en-dō-sel'ū-lār), a. [Gr. ἐνδον, within, + L. cellula, cell, + -ar³.] Within a

within, τ L. cettaat, cen, τ -aro.] Within a cell; intracellular.

Endoceras (en-dos'e-ras), n. [NL., < Gr. ενδον, within, τ κέρας, horn.] A genus of Silurian nautiloid cephalopods of the family Endoceratide, characterized by the development of the andocera inclusions. the endocones inclosing a central canal, the endosiphuncle, and by the projection of the funnels from one septum apically toward the

Endoceratida (en "dō-se-rat'i-dä), n. pl. [NL, < Endoceras (-cerat-) + -ida.] "A subdivision

of the order Nautiloidea of the tetrabranchiate Cephalopoda, characterized by large tubular siphuncles and a complete isolation, by the funnels, of the interior of the siphuncle from the interior of the cameræ.

endoceratite (en-dō-ser'a-tīt), n. [As Endoceras (-at-) + -ite².] A member of the genus Endoceras.

endoceratitic (en do-ser-a-tit'ik), a. [endoceratite + -ic.] Having an endosiphon, as cephalopods.

endochylous (en-dō-kī'lus), a. [Gr. ἐνδον, within, $+ \lambda v \delta c$, juice, moisture, $+ \delta u s$. In bot., placed inside the chlorenchyma: said of aqueous tissue which serves as a defense against physiological dryness, as in Cactaceæ and most other stem succulents. A. F. W. Schimper.

endoclinal, a. 2. In geol., pertaining to or of the nature of an endocline.

Finally he proved that the complicated tectonics of the Silurian tableland, its endless overfolds, its endoclinal and exoclinal structures, can be unravelled by means of the graptolite zones.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 625.

endocline (en'dō-klīn), n. In geol., a fan-fold

of anticlinal type.

endocale (en' dō-sēl), n. [Gr. ἐνόον, within,

+ κοίλος. hollow.] The cavity in the endoderm; the archenteron.

endocolitis (en'dō-kō-lī'tis), n. [NL., < Gr. ενδον, within, + κόλον, colon, + -itis.] Inflammation of the lining membrane of the colon.

endocomplement (en-dō-kom'plē-ment), n. [Gr. ēvðov, within, + E. complement.] A complement which occurs in the body of a cell, in contradistinction to complements which occur

free in the serum.

endoconal (en-dō-kōn'al), a. [endocone +-al¹.]

Relating to an endocone.

endocorpuscular (en'dō-kôr-pus'kū-lär), a. [Gr. ἐνδον, within, + NL. corpusculum, corpuscle, + -ar³.] Within a corpuscle, especially a blood corpuscle.

endocrane (en'dō-krān), n. Same as endocrane

cranium.

endocranium, n. 2. The lining membrane of

endocranium, n. 2. The iming membrane of the skull; the dura mater.
endocrystallic (en'dō-kris-tal'ik), a. [Gr. ἐνδον, within, +κρίσσαλλος, crystal, +-ic.] In petrog., a term used by J. D. Dana (1894) to describe that form of metamorphism which may be referred to the effects of pressure in modifying the structure of crystals, as in the production of secondary twinning or in fracturing them.

secondary twinning, or in fracturing them.
endocystitis (en'dō-sis-tī'tis), n. [NL., < Gr. ἐνδον, within, + κέστις, bladder, + -itis.] Inflammation of the mucous membrane of the urinary bladder or gall-bladder.

urinary bladder or gall-bladder.

endoderm, n.—Secondary endoderm, in embryol., a name for the endoderm cells which form the wall of the mesenteron or mid-gut in certain animals such as the insects, which have a primary endoderm in the form of vitellophags, or cells which are early set free into the yolk and ald in its assimilation by the growing embryo. endodontitis (en*dō-don-ti*tis), n. [NL., < Gr. ενδον, within, + ὁδοῦς (ὁδοντ-), tooth, + -itis.]
Inflammation of the membrane which incloses the pulp cavity of a tooth

endoectothrix (en-dō-ek'tō-thriks), n. [Gr. $\ell \nu dov$, within, $+ \ell \nu t \tau \delta c$, without, $+ \ell \rho \ell \xi$, hair.] That form of the fungus causing tinea or ringworm which produces its mycelium and spores both on the exterior and on the interior of the affected hairs.

The spores in this variety are arranged in chains with short jointed mycelium here and there; these elements being in more or less profusion either in or outside the shaft or they may occupy both localities—endo-ectothriz.

Buck, Med. Handbook, VII. 781.

endoenzyme (en-dō-en'zīm), n. [Gr. ērdov, within, + enzyme.] An intracellular ferment; a ferment which exercises its peculiar function within the cell.

endogamic (en-do-gam'ik), a. Same as endog-

amous.—Endogamic mating. See *mating. endogamy, n. 2. In bot., the fusion or coalescence of two or more female gametes.

endogastric (en-dō-gas'trik), a. [Gr. ἐνδον, within, + γαστήρ, stomach, + -ic.] Situated within the abdomen; coiled posteriorly, as the shell of Spirula. Compare *exogastric. Encyc. Brit., XXX. 795.

endogenesis (en-dō-jen'e-sis), n. [NL., < Gr. èrdov, within, + γένεσις, origin, production.]
The production of or the giving rise to structures from within: opposed to *ectogenesis.
endogenetic, a. 2. Formed directly from solutions, as a rock, whether from silicate solutions (ignorus, magmas), equals solutions.

tions (igneous magmas), aqueous solutions,

or gaseous solutions (sublimation), including those formed through organic agencies. bau, 1904.

Endogenetic rocks may also be called nonclastic, since they are never composed of fragments of older rocks, as are the clastic rocks, though they include regenerated rocks, or those in which the material of the older rocks has gone back to the original state of fusion or solution, from which it is then redeposited in a chemical way.

Amer. Geol., April, 1904, p. 229.

endogenous, a. 3. In geol., formed within a mass of rock or even within the earth itself: especially employed to describe the effects, in contact-metamorphism, produced in the intrusive rock itself, as distinguished from those in the walls. The common endogenous results are a dense or even felsitic or glassy texture due to the relatively quick chill.

quick chill.

endogeny (en-doj'e-ni), n. [Gr. ἐνδον, within, + -γενεια, (-γενης, -produced.] 1. Same as *endogenesis.—2. In sporozoans, sporulation taking place while the cyst is within the host. Compare *exogeny.—3. Same as endogany.

endoglobular (en'dō-glob'ū-lär), a. [Gr. ἐνδον, within, + L. globulus, globule, + -ar³.] Situated or occurring within a blood-globule, especially an erythrocyte. Jour. Exper. Med., March 25, 1901, p. 473.

endograph (en'dog-nath), n. [Gr. ἐνδον, within.

March 25, 1901, p. 473.
endognath (en'dog-nath), n. [Gr. ἐνδον, within, + γνάθος, jaw.] The inner branch of a gnathite or mouth-appendage in crustaceans. Proc. Zool. Soc. London, 1899, p. 705.
endognathal (en-dog'na-thal), a. [Gr. ἐνδον, within, + γνάθος, jaw, + -al.] Within the jaw.
endognathion (en-dog-nā'thi-on), n.; pl. endognathia (-ā). [NL.. ⟨Gr. ἐνδον, within, + γνάθος, jaw.] Same as intermaxilla.

yrátoc, jaw.] Same as intermaxilla.
endolabium (en-dō-lā'bi-um), n.; pl. endolabia
(-š). [NL., < Gr. ἐνδον, within, + L. labium,
lip.] The tongue, lingua, or hypopharynx of
an insect. It is placed inside the mouth and
is attached to the labium.
endolemma (en-dō-lem'ā), n.; pl. endolemmata
(-a-tā). [NL., < Gr. ἐνδον, within, + λέμμα,
scale.] In histol., a structureless membrane
lying beneath the exolemma and inclosing the
axis-cylinder in the tail of certain spermatozos axis-cylinder in the tail of certain spermatozoa. endomesoderm (en-dō-mes'ō-dèrm), n. [Gr. $\ell\nu\delta\sigma\nu$, within, + $\mu\ell\sigma\sigma\varsigma$, middle, + $\delta\ell\rho\mu\alpha$, skin.] In embryol., that portion of an embryo not yet differentiated into endoderm and mesoderm proper. Same as *mesentoderm.

endometritis, n.—Exfoliative endometritis, in-fianmation of the mucous lining of the uterus with the casting off of the superficial portion of this membrane. Membranous endometritis, a form of infianmation in which there is a fibrinous exudate which forms a false

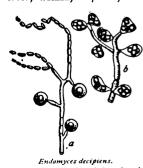
endometry (en-dom'e-tri). n. [Gr. čvôov, within, + -μετρια, $\langle μέτρον, measure. \rangle$ The determination of the capacity of a cavity, especially that of the cranium.

endomorphic, a. Specifically—2. In petrog., having the character of those phases of contact-metamorphism which are developed within the intrusive rock. See *endomorphism. endomorphism (en-dō-môr/fizm), n. [Gr. ἐνδον, within, + μορφή, form, + -ism.] In petrog., changes brought about within the mass of an interior in the second se

intrusive igneous rock by contact with the inintrusive igneous rock by contact with the in-truded rock. The commonest modifications are in the crystallization of the intrusive rock, which is usually more finely grained, sometimes glassy, and often more porphyritic near the contact. Less often there are changes in the composition of the intrusive rock, resulting in some cases from differentiation within the igneous magma. In rare instances there has been a diffusion of material from the surrounding rock into the intruded rock. Also called endomorphic contact-metamorphism.

Stout, on the analogy of endophasia, for 'in-ternal song,' that is, for the men-tal processes tal processes which constitute melodic imagery and which may prompt to melo-dic expression. Baldwin, Dict. of Philos. and Psychol., I. 564.

Endomyces (endom'i-sēz), n. [NL. (Reess, 1870), Gr.



a, mycellum bearing chains of coni-dia and chlamydospores, macrified 120 times; b, portion of mycellum bearing asct, magnified 150 times. (Drawn from Engler and Prantl's "Pfanzenfamilien.")

cetaceæ, having a loose mycelium bearing naked 4-spored asci at the ends of short, simple branches. So called from the fact that some of the species grow within the tissues of their host. E. deci-piens is a parasite of Armillaria mellea. According to Ludwig, certain species are concerned in producing the alime-flux of trees.

Endomycetacese (en-dō-mī-sē-tā'sē-ē), n. pl. .., (Endomyces (Endomycet-), + family of ascomycetous fungi named from the genus Endomyces. The asci are naked, that is, are not inclosed in an ascocarp, but are produced at the sides end of the hyphes.

endomyocarditis (en'dō-mī-ō-kār-dī'tis), [NL., \langle Gr. $\dot{\epsilon}\nu\dot{\sigma}o\nu$, within, + $\mu\bar{\nu}\varsigma$, muscle, + $\kappa a\rho\delta ia$, heart.] Inflammation which involves both the lining membrane and the muscular substance of the heart.

substance of the heart.
endonomic (en-dō-nom'ik), a. [Gr. ἐνδον, within, + νόμος, custom, law.] Concerning or pertaining to the sort of selection which is due to the aptitude of a race for dealing with its environment.

This form of selection, determined by the aptitudes and habitudes of the species in dealing with the environment, I call endonomic selection.

T. Gutick, in Amer. Nat., Aug., 1904, p. 496.

endonuclear (en-dō-nū'klō-ār), a. [Gr. &voov, within. + L. nucleus, a nucleus, + -ar3.] within, + L. nucleus, a nucleus, + -ars.] Situated or occurring within the nucleus of the cell: opposed to *ectonuclear.

cndopelvic (en-dō-pel'vik), a. [Gr. ἐνδον, within, + L. pelvis, basin (pelvis), +-ic.] Situated or occurring within the pelvis.
endopericardial (en'dō-per-i-kār'di-al), a. [Gr. ἐνδον, within, + περικάρδιον, pericardium, +-al.] Relating to both the endocardium and the pericardium.

and the pericardium. endophasia (en-dō-fā'si-ā), n. and the pericardinal and the period and stitute imagery of spoken words and which may prompt to verbal expression. Baldwin, Dict. of Philos. and Psychol., I. 564.

endophasic (en-do-fā'sik), a. [endophasia + -ic.] Pertaining to endophasia or internal speech.

A person may be gifted with an excellent visual imagination of objects or words, and may yet use in his processes of ideation only the auditive images of words. He makes use in this case of a cerebral mechanism that connects the working of the intellectual centers with the sympathetic action of the endophasic center.

Amer. Inventor, May 1, 1904, p. 206.

endophragma (en-dō-frag'mā), n. [NL.] Same and opning (en-do-trag ma), n. [NLI.] Dealle as endophragm.—Endophragmal system, in some crustaceans, a kind of internal skeleton consisting of a segmental series of calcifled plates, projections of the ventral and lateral regions of the thoracic exceleton into the interior of the body, so arranged as to form a row of lateral chambers in which the muscles of the limbs lie, and a sternal canal which contains the thoracic portion of the pargons system.

nervous system.

Endophyllaces (en-dō-fi-lā'sō-ō), n. pl. [NL., < Endophyllum + -acese.] A small family of rust-fungi, of the order Uredinales, named from the genus Endophyllum: characterized by having the teleutospores produced in a chain-like series.

chain-like series.

Endophyllum (en-dō-fil'um), n. [NL. (Léveillé, 1825), \langle Gr. ℓ voov, within, $+\phi i\lambda \lambda ov$, leaf.]

A genus of rust-fungi of the order Uredinales.

They produce only teleutospores which form in chains and are surrounded by an secidium-like peridium, more or less buried in the tissue of the host, whence the name.

E. Semperwivi is parasitic on the leaves of Sempervivum.

E. Sempervivi is parasitic on the leaves of Sempervirum.
endoplastron (en-dō-plas' tron), n. [NL.]
Same as entoplastron.
endoplutonism (en-dō-plö'tō-nizm), n. [endopluton-ic + -ism.] In petrol., the theory which assumes the cooling of a molten earth.
endopluton-ic + -ist.] One who advocates the theory of an originally molten earth.
endopod (en'dō-pod), n. Same as endopodite.
endoproct (en'dō-prokt), n. One of the Endoprocta.

Frocta.

Endopterygota (en'dop-ter-i-gō'tä), n. pl. endosiphuncular (en'dō-sī-fung' kū-lär), a. [NL., ⟨Gr. ἐνόν, within, + πτερυγωτός, winged.] Situated within the siphuncle.

A superorder of insects whose wings, in the endosmosic (en-dos-mō'sik), a. An erroneous early stages, are developed within the body. It form for endosmotic.

includes the Coleoptera, Diptera, Lepidoptera, endosmotic equivalent. See osmotic *equiva-termosity form for endosmotic equivalent.

two, within, $+\mu i\kappa n g$, fungus.] A genus of endopterygotic (en'dop-ter-i-gō'tik), a. Per-Ascomycetes, the type of the family Endomy-taining to, or characteristic of, the Endopteryanta.

> endopterygotism (en'dop-ter-i-gô'tizm), n. The development of wings in the early stages within the body, as with the Endopterygota.

Within the body, as with the *Entopic gyous*.

We have no evidence that any Endopterygota existed amongst Paleozoic insects, so that the phenomena of endopterygotism are comparatively recent.

*Encyc. Brit., XXIX. 502.

endopterygotous (en "dop-ter-i-gō' tus), a. Pertaining to or having the characteristics of the Endopterygota.

canal.

end-organ (end'ôr'gan), n. In physiol., any specialized structure which forms the terminus of a path of nervous conduction: usually ap-plied to the terminal organs at the periphery of the body.

The sensation which we isolate in the present experiment is the sensation whose peripheral end-organ is striped muscle, and whose stimulus is muscular contraction.

E. B. Tüchener, Exper. Psychol., I. ii. 144.

endosarcode (en -dō -sār 'kōd), n. [Gr. ενδον, within, + σαρκώδης, σαρκοειδής, fleshy: see sar-code.] Same as endoplasm or endosarc.

endoscopy (en-dos'kō-pi), n. [Gr. ἐνδον, within, + -σκοπια, ζ σκοπεϊν, view.] Inspection of the interior of any cavity or canal of the body.

Therapeutic Gazette, Jan., 1903, p. 59.

Bndosepsis (en-dō-sep'sis), n. [NL., ζ Gr. hadou within the state of the september of the sept

[NL., < Gr. ion.] Sepsis ένδον, within, + σήψις, putrefaction.] Sepsis excited by a poison formed within the organism; autotoxemia.

endosipho (en-dō-si'fō), n. [NL., < Gr. ἐνδον, within, + σίφων, L. sipho, a pipe: see siphon.] In the extinct nautiloid cephalopods of the

family Endoceratide, the contents of the ectosipho of the siphuncle as a whole.

endosipho-blade (en-dō-si'fō-blād), n. [endosipho + blade.] In some of the extinct nautiloid cephalopods, as the Endoceratida, a membrane supporting the endosiphuncle and extending to the certainly

memorane supporting the endosiphuncie and extending to the ectosipho.

endosiphocoleon (en'dō-sī-fō-kol'ē-on), n.; pl. endosiphocolea (-a). [NL., < Gr. ενδον, within, + σίφων, pipe, + κολεός, sheath.] In some of the Silurian nautiloid cephalopods, as Endoceras, a flat, broad, conchiolinous tube extending ing from the posterior end of the visceral sac (inclosed in the endosiphocone) toward the

apex endosiphocone (en-dō-sī'fō-kōn), n. [NL., ζ Gr. ἐνδον, within, + σίφων, pipe, + κῶνος, cone.] In paleon., the posterior conical continuation

In pateon., the posterior conical continuation of the endosiphocylinder of the siphuncle of certain Paleozoic Nautiloidea (Endoceratidæ). endosiphocylinder (en'dō-sī-fō-sil'in-dèr), n. [Gr. ἐνδον, within, + σίφων, a siphon, + κίλινορος, a cylinder.] In some of the extinct nautiloid cephalopods (Endoceratida), a calcareous cylinder lining the anterior and wider part of the girburgular tiph siphuncular tube.

endosiphofunicle (en'dō-sī-fō-fū'ni-kl), n.
[NL., endosipho + L. funiculus, a little rope.]
In certain extinct nautiloid cephalopods (Piloceras), one of the supporting cords which extend from the endosiphuncular structures to the ectosipho.

endosipho-sheath (en-dō-sī'fō-shēth), n. [NL. endosipho + E. sheath.] In some of the Silurian cephalopods (Endoceratida), the membranous wall of the endosiphocone which becomes

wan of the endosiphocone which becomes hardened by deposition of lime carbonate. endosiphotube (en-dō-sī'fō-tūb), n. [Gr. &vdov, within, + oloov, pipe, + L. tubus, tube.] See *endosiphuncle.

endosiphuncle (en-do-si'fung-kl), n. [Gr. èvoov, within, + NL. siphunculus, dim. of L. sipho, pipe.] An axial tube in the fossil nautiloid Cephalopoda, passing through the center of the siphuncle in forms with endosiphuncular organic deposits. Same as prosiphon, endosiphon, and *endosiphotube.

endopterygote (en-dop-ter'i-gōt), a. and n. Endosphæraceæ (en 'dō -sfē -rā 'sē -ē), n. pl.
I. a. Of or belonging to the superorder Endopdopterygota.

II. n. An insect of the superorder Endopterygota.

Endosphæraceæ (en 'dō -sfē -rā 'sē -ē), n. pl.
[NL., ⟨ Gr. ἐνδον, within, + Sphæraceæ.] A
subfamily of the Protococcaceæ, (which see).
Endospora (en-dos'pō-rā), n. pl. [Gr. ἐνδον,
within, + σπορά, seed (spore).] A group of

Sporozoa in which the spore-formation goes on during the growth of the trophozoite, and the spore mother-cells or pansporoblasts are cut off in the interior of the body. It includes the Myzosporidia, Sarcosporidia, and the Haplosporidia. Compare *Ectospora. Mesnil. endosternitic (en'dō-ster-nit'ik), a. Of or per-

endostermitic (en do-ster-int ik), d. Of or pertaining to an endosternite.
endosternum (en-dō-ster'num), n. [NL., < Gr. ενδον, within, + στέρνον, breast-bone: see sternum.] Same as entosternum.
endostitis (en-dos-ti'tis), n. [NL., < endosteum + -tis.] Inflammation of the endosteum.

endotheliolysin (en-dō-thē-li-ol'i-sin), n. [endothelium + lysin.] A lysin, belonging to the class of cytotoxins, which causes the destruction of vascular endothelial cells, leading to the extravasation of blood. Also termed hemorrhagi**n.**

endotheliolytic (en-do-the'li-o-lit'ik), a. Of or pertaining to an endotheliolysin; noting the action of an endotheliolysin.

The agglutinative hemolytic and endotheliolytic action of the blood serum. Jour. Med. Research, Oct., 1904, p. 359.

endotheliotoxin (en-dō-thē 'li-ō-tok 'sin). n. [endothelium + toxin.] The antibody which results on immunization with endothelial cells.

Also endotheliolysin.
endotherm (en'dō-therm), n. [Gr. $\dot{\epsilon}\nu\delta\sigma\nu$, within, $+\theta \epsilon\rho\mu\eta$, heat.] In chem., a compound substance in the formation of which from its constance

stance in the formation of which from its constituents energy is absorbed, and in its decomposition energy (usually heat) is evolved.

Endothiodon (en-dō-thi'ō-don), n. [Gr. ἐνδοθι, within, + ἀδοίς (ἀδοντ-) tooth.] A genus of anomodont reptiles, comprising large animals from the Karoo formation of South Africa, the extensive distribution of the state of characterized by their palatal teeth, elongated muzzle, and terminal nares overhung by great

endothiodont (en-dō-thī'ō-dont), a. Related enquenion (en-qo-tnr o-qont), a. Kelated to or having the characters of Endothiodon. endothrix (en'dō-thriks), n. [Gr. ἐνδον, within, + θρίξ, hair.] That form of the fungus causing times or ringworm which produces its mycelium and spores within the shaft of the affected hair.

hairs.

endotoxin (en-dō-tok'sin), n. [Gr. &voov, within, + E. toxin.] A toxic substance set free during the process of bacteriolysis by means of immune sera against which the animal body does not appear to be capable of producing an antitoxin.

These specific toxins are only liberated after
or during the destruction of the micro-

endotrachea (en-dō-trā-kō'ā), n.; pl. endotra-cheæ (-ē). [NL., ⟨Gr. ἐνδον, within, + τραχεία, trachea.] The inner layer of the trucheæ of insects. It consists of a membrane, part of which is thickened in such a way as to form chitinous transverse bands or a spiral strengthening which serves to hold the tube open. A. S. Packard, Text-book of Entom., pp. 432, 448.

endetrypsin (en-dō-trip'sin), n. [Gr. ἐνδον, within, + E. trypsin.] An intracellular proteolytic ferment having the general character of trypsin.

endotryptase (en-dō-trip'tās), n. [Gr. ἐνδον, within, + E. tryptase.] An intracellular proteolytic ferment which has been found in yeast and which is capable of digesting and destroying zymase. Nature, Aug. 27, 1903, p. 385.

p. 385.
endovasculitis (en-dō-vas-kū-lī'tis), n. [NL., ⟨Gr. ἐνδον, within, + L. vasculum, vessel, +
-itis.] Same as *endangiitis.
Endozoa (en-dō-zō'š), n. [NL., ⟨Gr. ἐνδον,
within, +ζφον, animal.] Same as Entozoa.
endozoic (en-dō-zō'ik), a. Same as entozoic.
end-point (end-point'), n. 1. In analyt. chem.,
the point at which a chemical reaction is completed without excess of either reagent. The the point at which a chemical reaction is completed without excess of either reagent. The end-point is commonly determined by means of an indicator: for instance, when the amount of an alkali is to be determined by measuring the amount of acid required to neutralize it, litmus may be the indicator, and the end-point is known by the change of color of the litmus.

2. In function-theory, of an interval or path from x_0 to x, either of the points x_0 , x. Also called end-value, of the path.

end-port (end'port), n. In mach.: (a) The opening at either end of the face of the valveopening at either end of the face of the valve-seat of a steam-engine, or the traverse of the valve thereon, through which steam is admit-ted alternately to the crank-end and to the head-end of the cylinder. (b) In gas-engines, an opening through the wall of the cylinder which is uncovered by the travel of the piston into a it reaches the end of its stroke. Such just as it reaches the end of its stroke.

end-ports release the exhaust gases at the end of the stroke, particularly in the two-phase cycle type of engine.

end-product (end'prod-ukt), n. The substance finally produced as a result of a series of chemical reactions.

end-reaction (end-re-ak'shon), n. In chem. reaction easily recognized by the senses, as by a change of color, and which takes place only when some other reaction has been completed, thus serving to indicate that this latter is at an end. Thus, if a little yellow potassium chromate is added to a solution of sodium chlorid, and then a solution of silver nitrate is gradually dropped in, as soon as the precipitation of the chlorin as silver chlorid is complete a permanent red color makes its appearance, due to the formation of silver chromate.

end-rib (end'rib). In organ-building, the board forming one end of a wind-chest.

end-stopped, end-stopt (end'stopt), a. Having a break or pause at the end of the line: applied to poetry.

At first Shakspere has his breaks and pauses at the end of the line—the verse is 'end-stopt'; gradually he more and more found pleasure in carrying on the sense from one line to another without a pause at the end of the line—the verse is 'run on,' and the breaks and pauses occur with great frequency in some part of the line other than the end.

Doublen, Shakspere Primer, p. 39.

the end. Dowden, Shakspere Primer, p. 39.

end-thrust (end'thrust), n. The push exerted through the axis of a shaft in transmitting power, or in resisting the action of weights. In marine engines the propeller tends to force the shaft inboard by a force equal to that by which the boat is propelled; in driving through bevel gears the pressure is oblique to the teeth and causes end-thrust on both shafts; in vertical shafts, the weight of machinery (and perhaps the load) forces the shaft downward. The end-thrust is resisted by some form of thrust-bearing or by a ball bearing.

end-value (end'val'ū), n. 1. In the calculus, an upper or a lower limit. Thus in $\int_a^b f(x) dx$, the numbers a and b are the end-values of x. 2. In function-theory. Same as *end-point, 2.

end-wool (end'wul), n. Parts of a fleece of wool which are of little or no value.

energesis (en-èr-jē'sis), n. [NL., < Gr, everyeëv, be in action, show energy: see energy.] In veg. physiol., a term proposed by Professor Charles R. Barnes "to designate the disruptive processes by which energy is released." It has heretofore been included in respiration. See respiration, 4.

It will at least do no harm to propose that the terms aerobic and anaerobic energesis be considered, to which fermentative energesis may be added if necessary.

C. R. Barnes, in Science, Feb. 17, 1906, p. 252.

energetic, a. 2. In phys., of or pertaining to

energy or to the science of energetics. It is used to find equations of motion from energetic ata.

Nature, Jan. 29, 1903, p. 297.

energid (en'er-jid), n. [Gr. ἐνεργός, at work (see energy), + id².] In biol., the cell-nucleus together with the cytoplasm which it influences or dominates: almost synonymous with cell, except that it does not include such structures

as the wall of the plant-cell. Sachs, 1892.

energism (en'er-jizm), n. [G. and NL. energismus; as energ-y + -ism.] Any theory of ethics which makes the summum bonum to consist, not in the excitement of particular feelings, but in a particular state of mind feelings, but in a particular state of mind considered as an activity. The term originated with F. Paulsen, and is employed by Thilly and other of Faulsen's disciples. The distinction upon which the definition turns is not between an external fact and an internal fact, nor between the state of mind of society and that of the moral agent himself, but is rather partly between a state which modifies all others and a possibly transient state, and partly between a state of mind regarded as a seeming, that is, as a sort of sign, possibly deceptive, of another state of mind. Perfectionism seems to be nearly coextensive with the principal kind of energism. Energopoda (en-er-gop'o-dā), n. vl. [NL., ζ Gr. ενερός, active, + πούς (πού-), foot.] A superfamily of dipterous insects, in the classification of Brauer, containing the families Asildæ, Dolichopodidæ, Empidæ, Lonchopteridæ, and (doubtully) Phocidæ.

energy, n.—Angular energy, the kinetic energy of

(doubt-ully) Phocidæ.

Snergy, n.—Angular energy, the kinetic energy of rotation; the product of the moment of inertia of a rotating body into one half of its angular velocity.—Apparent energy, in elect. Same as apparent *power.—Available energy, in thermodynam., that part of the energy of a system which can be employed for mechanical purposes. J. W. Gibbs.—Bound energy, in thermodynam., the change of total energy, in an isothermal process, minus the change of free energy occurring in that process.—Condensational energy, energy stored in a medium as the result of work done in condensing or compressing it.—Curve of energy. See *curve.—Degradation of energy. See *curve.—Degradation of energy. See *curve.—Degradation of energy. The doctrine that in the processes of nature there is a tendency for energy to be converted into unavailable forms, so that while the total energy of the

universe remains constant in amount the proportion of it that is available for the production of work is continually diminishing. See correlation of energies.— Electrochemical energy, in phys. chem., either electrical energy when it performs chemical work, or chemical energy when it performs chemical work, or chemical energy when it is manifested as electrical energy.— Energy electromotive force. See **electromotive.*— Energy electromotive force. See **electromotive.*— Energy syntatoe, that one of the thermodynamic surfaces which has for its equation \$U=f(vn)\$ where \$U\$ is the energy of the system, \$v\$ to volume, and \$\eta\$ its entropy.— Equation of energy. See **equation.— Factors of energy, in phys., two factors such that one defines the direction in which energy shall be transferred in the case of a given body, while their product defines the whole quantity of energy possessed by the body. The first factor is called the *intensity-factor*, the second the *crpacity-factor*. If a small vessel of water does not inform us as to the direction in which energy shall be transferred. If, however, we know the temperature of the two masses of water does not inform us as to the direction in which energy shall be transferred. If, however, we know the temperature of the two masses of water, we know the temperature of the two masses of water does not inform us as to the direction in which the transferred. If, however, we know the temperature of the two masses of water does not inform us as to the direction in which the transferred. If, however, we know the temperature of the two masses of water, we know the temperature of the two masses of water, we know the temperature of the two masses of water does not inform us as to the direction in which the condition in which the transferred. If, however, we know the temperature of the two masses of water does not inform us as to the direction in which the condition in which the transferred. If, however, we know the temperature of the two masses of water, we know the same characteristi direction in which the transfer will take place. In this case the intensity-factor depends on temperature, and the capacity-factor on the mass of the water. For volume-energy, as of steam or compressed air, the intensity-factor depends on the pressure and the capacity-factor on the volume of the steam or air.—Free energy, in thermodynam, a name given by Helmholtz to that part of the intrinsic energy of a thermodynamic system whose diminution determines the maximum work which the system can perform upon bodies external to it. The remaining part of the total energy of the system, which cannot be transformed into external work, Helmholtz called bound energy.

From a theoretical point of view, it would be preferable if we would not base our calculation on the thermochemical value of the heat of reaction, but on Helmholtz's "free energy" of the reaction.

Electrochem. Industry, June, 1904, p. 213.

Intrinsic energy, the internal energy of a body or system, due to its configuration, position and motion, or to the motion of its parts, as measured by the work it is capable of doing without the introduction of energy from other bodies.—Law, principle, or theory of specific nervous energy, in neurol., the doctrine that every sensory nerve is specific in function, so that, however stimulated or connected, it can, or could, mediate only such sensations as it gives rise to under normal conditions.

In opposition to the principle of indifference of function, it is generally held, at the present time, that the law of epecific energy, as it is termed, is an especially valuable asset of modern nerve and sense physiology. Nevertheless, the history of the law shows a gradual regression.

W. Wundt (trans.), Physiol. Psychol., I. 830.

gression. W. Wundt (trans.), Physiol. Psychol., I. 830.

Law of equipartition of energy, the Boltzmann-Maxwell law for the partition of energy in a gas; the law that in a gas the distribution of energy will be such that every mode of vibration of its particles is equally favored.—

Radial energy. Same as radiant energy. [Rare.]—

Strain-energy method. See **strain!.— Thermal energy that form of energy which manifests itself as heat; the lower form of energy into which the higher forms (kinetic energy, potential energy, etc.) tend to degenerate, and which is only in part recoverable into more available forms.—Traction energy. Same as tractice **efort.—Translatory energy, kinetic energy due to the motion of translation of a body or particle.

Radial Energy (energy energy, kinetic energy due to the motion of translation of a body or particle. energy-meter (en'ér-ji-mē'tér), n. An apparatus for measuring and usually also for re-

cording the passage of power or energy through it. It records both the quantity of force and the time through which this force has been exerted: used in the sale of electric current to consumers and to determine expenditure of mechanical energy.

on accommon expenditure or mechanical energy.

enface (en-fas'), v. t.; pret. and pp. enfaced,
ppr. enfacing. [cn-1 + face (after endorse).]

To write, print, or stamp some mark or form
of words on or across the face of (a note, of words on or across the face of (a note, bond, certificate, map, or the like).—Rnfaced paper, the name given to the bonds or certificates of certain India loans: so called because they are marked on the top, bottom, and left margins by a broad band impressed upon them from an enchased copperplate. Bithell, Counting-house Dict.

enfacement (en-fas'ment), n. [enface + -ment.]

The mark or form of words written, printed, or stamped on or across the face of a bond or note, etc.: such as "interest payable in London," or the like.

enfilade. n. Milit.. (b) An infantry or artil-

enfilade, n. Milit., (b) An infantry or artillery fire which sweeps a line of works or men from flank to flank.

enfranchise, v. t. 5. The feudal law, to free from the obligations of feudal tenure, as to

convert a copyhold estate into a freehold.

ngage, v. t. 9. In construction, to fasten or let into a wall for support, as to secure a column to a wall. See engaged column, under engage, v. t. column.

engagement ring. See *ring1. engarb (en-gärb'), v. t. [en-1 + garb.]

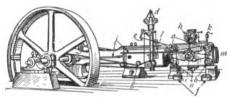
dress; attire; garb.
engastration (en-gas-trā' shon), n. [Gr. $\dot{\epsilon}\nu$, in, $+ \gamma a\sigma\tau \rho \rho$ ($\gamma a\sigma\tau \rho$ -), belly, + -ation.] The placing of a fowl, as a stuffing, inside another fowl.

N. E. D.

engenderment (en-jen'der-ment), n. [engender + -ment.] The act of engendering, pro-

creating, or reproducing. engin, n. and v. t. A simplified spelling of

engine
engine, n.—Aëro-steam engine, an engine in which the motor energy is derived both from hot air and from steam, admitted together to the cylinder. Its theory is that the hot steam will impart heat and therefore greater tension to the air, or that the hot air will raise the steamtension, and that the mixture will be less liable to lost from condensation in the cylinder than steam alone. It has not proved to be of practical advantage. The name is also applied, less correctly, to engines in which the crank-shaft is driven by two cylinders, of which one is supplied with steam from a boiler and the other with hot air from a heating-chamber.—Balanced engine, an engine so constructed as to be free from unbalanced forces which would make it shake or rock.—Balance-valve (which see).—Camel-back engine, as meas *camel-back* engine, a steam-engine provided with a balance-valve (which see).—Camel-back engine, as used repeatedly, being alternately heated, allowed to expand doing work, cooled and compressed, heated, etc.; an engine operating on the Carnot, Joule, or Ericsson cycle.—Coal-dust engine, an internal-combustion engine which uses coal-dust as a fuel. The coal-dust is blown on to a hot plate and vaporized by heat in a chamber filled with compressed air.—Condensing engine, a steam-engine in which the steam, after working in the cylinder, is exhausted into a chamber in which a pressure less than that of the atmosphere prevails. This condition can continue only by continually condensing the steam to water, either by a jet of water directly or by contact with a water-cooled metal surface. The vacuum is maintained by pumping out the water and air or by placing the condensing chamber over \$2\$ feet in the air with its discharge-pipe sealed by water at its foot so as to cause and maintain a vacuum above the water-column. A condensing-engine will be smaller than a non-condensing engine of the same power as respects its cylinder-volume. It is theoretically more efficient thermally, since it rejects its fluid at a lower t discharge of condensed steam and warmed injection-water gives the boiler a supply of pre-heated feed-water.—Corliss engine, a four-valve engine having cylindrical rock-



Corliss Engine.

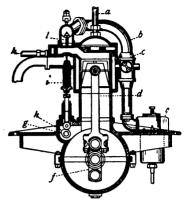
Corliss Engine.

a, steam inlet-valves; \(\theta\), exhaust outlet-valves; \(\epsilon\), wrist-plate actuating the four valves; \(\theta\), governor controlling point of release or trip of valves \(\theta\). To from governor to tripping-latches or levers; \(\theta\), dash-pots acting as air-springs to close a quickly and by compression of air prevent shock in closure; \(\theta\), coller resting on governor driving-belt and by its weight-fpring the arms and balls up in the governor-belt breaks or runs-off; \(\theta\), hand-control throtted-valve in the pipe from boller; \(\theta\), oil-pump to force lubricant at intervals into cylinder and valve casings; \(\theta\), dash-pot to diminish oscillation of the governor-balls, or the "hunting" of the governor up and down its spindle; \(m\), over or head of the steam-cylinder; \(m\), outlet for exhaust-pipe.

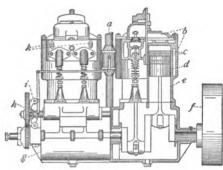
ins spindle; m, cover or head of the steam-cylinder; m, outlet for exhaust-pipe.

ing-valves to open and close the ports alternately. The inlet and exhaust-valve being separate, the latter are opened to their full extent at each stroke, while the former are opened only so much as the governor permita. All the valves are actuated from a disk or wrist-plate which receives motion from the eccentric, though the inlet-valves are disconnected from this plate by a trip and closed by a dash-pot. The advantages of the Corliss engine are the small clearance spaces, the large port areas, and the sharp cut-off; the latter easily variable by the governor through a wide range as the load varies, while the point of release of exhaust and the point of closure which causes compression are constant. The engine was promoted by George H. Corliss of Providence, Rhode Island.—Coupled engine. (a) A duplex or twin engine, two cylinders acting through their mechanism on one crank-pin or on one revolving shaft. (b) A locomotive which has two or more pairs of driving-wheels counled together by side or parallel rods.—Diagonal engine, an engine so set that the direction of the piston's travel is neither horizontal nor vertical; an inclined engine.—Explosion engine, internal-combustion engine: so named because early forms of the internal-combustion motor used mixtures of gas and air which were explosive and detonated when set on fire. The modern engine, with compression, does not detonate, but a true ignition takes place at constant volume, and little or no noise is audible aside from that due to the power. When the ignition takes place outside the cylinder, and without doing work against the piston, the free expansion of the same mixture is noisy, because the air receives the impact of the expanding gases.—Fan engine, an engine which drives a fan or rotary blower, usually directly connected on the common revolving shaft.—Hot-water engine. Same as fireless locomotive. See locomotive. Thydro-oil engine, an internal-combustion engine in which water is atomized by the air which enters to furnish oxygen for combustion, and a complete mechanical mixture of water and oil-vapor is made. On ignition the water-vapor becomes steam, tending to keep down the temperature and pressure of the mixture and to absorb heat during expansion. The presence of the water-vapor diminishes the volume of fuel-vapor in a given cylinder, and diminishes the danger of pre-ignition on compression. The principle is specially adapted to the use of crude petroleum as fuel, since the retarded combustion and lower temperatures mitigate mechanical difficulties from the varying rolatility of the elements in unrefined oil.—Inside-connected engine, a locomotive in which the driving mechanism is so constructed that the cranks are formed in the driving axles of the front pair of wheels and therefore come within the frames. The cylinders are also between the frames, under the smoke-box. This type was much used in Europe and was followed in early American practice, but the greater convenience and accessibility for

adjustment and repair of the outside-connected type soon made this latter form standard in the United States.—
Internal-combustion engine, any engine in which the pressure for driving the piston is obtained by burning



a, water-outlet; b, vapor-pipe; c, throttle-valve; d, connecting-rod; c, carbureter; f, crank-shaft; g, cam-shaft; h, cam; i, exhaust-valve; f, water-inlet; f, induction-valve.

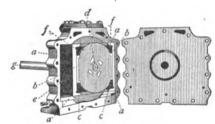


Internal-combustion Engine (side view).

a, inlet-pipe for fuel mixture; b, water-Jacket; c, piston-rings; d, piston; c, cylinder; f, fly-wheel; g, base-chamber; h, half-speed wheel; i, governor-gear; h, holes for sparking-plugs.

or exploding a mixture of oxygen and fuel in the cylinder of the engine, as in a gas., gasolene., or oll-engine. See *motor and *cycle.—Inverted-cylinder engine, a vertical engine having an inverted cylinder. From its use, also called the steam-hammer pattern. Most marine screw-engines are now built in this way.—Liquid-fuel engine, an internal-combustion engine which uses a liquid, such as gasolene, for fuel, as distinguished from an engine which uses gasolene, for fuel, as distinguished from an engine which uses gas or a solid for fuel.—Multicylinder engine, an engine having more than two steam-cylinders.—Nigger engine, an engine intended for rough and heavy work out of doors or in exposed places where little care can be taken of it. It is usually cheaply made, and without thishor polished surfaces except where unavoidable.—Outside-connected engine, in which the cylinders are outside of the frames, and their pistons are connected by rods, also outside the frames, to pins outside of the driving-wheels.—Quadrant engine, a form of steam-engine mechanism in which the piston was rectangular in shape and was pivoted on one edge which coincided with the axis of a geometric cylinder. The opposite edge was free to move through an arc of such cylinder, which was usually a quadrant or 90°. The other two edges fitted the two heads steam-tight, and the piston oscillated through 90° as the steam was admitted alternately on its opposite faces. The motion was transmitted through connecting-rods from the axis by means of vibrating arms which worked like half-beams of a beam-engine.—Quarter-orank engine, an engine in which the angle between the cranks, which work in pairs, is 90°, or a quarter of the complete circle. Locomotives are made with their cranks quartered, so as to have one cylinder always at its most advantageous crank-angle when the other is at or near its dead-center. Blowing or compressing engines are often similarly designed, with one cylinder always at its most other horizontal and with the two connecting-rods o or exploding a mixture of oxygen and fuel in the cylinder of the engine, as in a gas, gasolone, and the cylinder

piece receiving its compression in a pass when being passed back over the top of the middle roll. For heavy and massive sections, such as an ingot or bloom, the lifting of the piece requires a mechanical lifting table, but to install this diminishes the labor cost while increasing only the first cost and repair-account. The reversing engine will be more approved when the rolls are of large diameter. In England such reversing engines were often geared to the rolls, perhaps three to one, and were reversed by a Stephenson or Joy link-motion operated by a steam or hydraulic cylinder or by hand. To diminish the weight of the fly-wheel and its living force, which would retard quick-reversal, the engine was often of two-cylinder design, simple or compound, with cranks quartering, or at 90 degrees apart.—Rotative engine, a term commonly used in specifications to distinguish the ordinary engine with connecting-rod and crank from an engine in which the reciprocating movement is not converted into circular motion, as in pumps of the direct-acting type.—Saddle-tank engine. Same as saddle-tank locomotive.—Saries-expansion engine, a compound or multiple-expansion engine in which the steam expands in steps or stages in a series of cylinders.—Side-beam engine, a form of beam- or lever-engine in which the working-beam is placed at the side of the cylinder. This form of engine was once used widely for side-wheel war-vessels, but it is now out of use.—Simple engine, a form of engine in which the process of expanding the working fluid is completed in one cylinder, instead of in two or more as occurs in the compound engine.—Single-acting-acting-acting-solar engine, as pherical engine, any engine which has a spherical form, as Hero's engine; as pecifically, the Tower spherical engine, any engine which has a spherical form, as Hero's engine; as pecifically, the Tower spherical engine, which consists of a pair of quarter-spheres hinged to a disk along diameters at right angles with each other, and inclosed in a hollow sphere which the

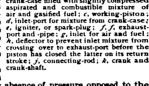


Square Engine.

a, exterior casing of the steam-cylinder; θ , θ , first piston, sliding horizontally in casing α ; c, c, second piston, sliding vertically in piston θ ; d, crank-pin, receiving motion from the combined effort θ and c; c, space receiving steam to impel θ ; f, space receiving steam to impe

of the piston is equal to the diameter of the cylinder. (b) A form of engine in which the crank is driven by the pressure on two rectangular pistons, the second of which traverses in a suitable recess in the first. This double motion enables the pistons to follow the angular displacement of the crank without the use of connectingrods, and gives a square section to the case i closing the two pistons.— Sulphur-dioxid engine, an engine in which the vapor of sulphur-dioxid (SO₂) is used in place of the vapor of water. This is done for the purpose of utilizing the low boiling-temperature of SO₂ and perhaps its smaller cylinder-condensation at the temperatures at which it is operated. But the material has to be purchased or manufactured, and its odor is objectionable, while no economy in its use has been demonstrated.—Surgical engine, an apparatus similar to the dental engine, used by surgeons in certain operations on bone.—Tangye engine, an engine having a bed-plate of the design first proposed by C. T. Porter, of the United States, and adopted in England by Tangye Brothers. The cylinder is overhung at the back end of the bed to allow of free expansion by heat, and the front part curves downward in front of the cylinder to carry the guides and give free play to the sway of the connecting-rod. The bed-plate thus consists of two parts only, and the metal is disposed so as to give rigidity and mass and present a pleasing effect to the eye by its lines.—Thermodynamic engine, an engine which derives its motive power from rise in temperature or increase and dininution of intrinsic or heat energy in the medium which it employs: applied to hot-air and gas-engines, often to distinguish them from steam-engines, although by strict definition the last belong also in the same class.—Three-cylinder engine, an engine with three cylinders, each taking hold upon a crank which is set at an angle of 120° from the other two. Such an engine has no dead-center and gives a very uniform turning effort: much used with capstans and winch

Many small gas-engines are built on this plan, as by it each cylinder gives an impulse to the crank for each revolution of the latter, while in the four-cycle engine two revolutions take place for each impulse. In the form shown, the working piston acts as a valve and no others are required. The piston uncovers the exhaust outlet at the end of the stroke before it uncovers the inlet portleading from the compactible. leading from the com-bustible mixture. The return of the



covers the inter port leading from the combustible mixture. The return of the piston compresses the charge, and the igniter fires it. See internal-combustion *motor. - Vacuum-engins, an engine in which the power in the cylinder results from the presence, on the negative side of the cylinder, of a tension of vapor less than that of the atmosphere, while on the positive or pressure above the atmosphere, while on the atmosphere, while on the atmosphere alone, is exerted. Hence the power comes from the vacuum or absence of pressure opposed to the motion of the piston. Very low pressure condensing steam-engines would be of this class, but modern engines have always the positive pressure much above the atmosphere. The Newcomen atmospheric engine was of this type. — Vibrating-piston engine, an engine whose rectangular piston is free to move around afixed hinge-joint on one of its sides, so that the piston moves in its casing as a door swings upon its hinges. It is no longer used. See quadrant *engine. — Waste-heat engine, an engine which utilizes as a source of heat the discharge of a primary motor. In such engines at earling heresure may be used to operate a second smaller engine with a lower pressure-range. — Wollaston's engine, an experimental apparatus designed to fillustrate the expansive force of steam.

Wollaston's Engine.

engine-cycle (en'jin-sī'kl), n. The various phases attending one complete revolution of the crank of an engine, including admission, expansion, exhaust, and compression. In some engines, particularly gas-engines, two revolutions are sometimes needed for a complete cycle. See *cycle.

engines, particularly gas-engines, two revolutions are sometimes needed for a complete cycle. See *cycle.

engineer, n.— Gadet engineer, formerly the title of a student at the United States Naval Academy who entered the corps of engineer officers of the navy: now abolished.—Chemical Engineer, a degree given to graduates of a technical or engineering school for special knowledge of the scientific laws and the rules of practice concerned with the manufacture of chemical products. Abbreviated Ch. E.—Civil engineer, (a) See engineer, 1. (b) The title of an officer of the corps of civil engineers of the United States Navy. See *corps2.—Forest Engineer, a degree given for a course in the study of forestry. Abbreviated F. E.—Hydrographic engineer. (a) An engineer skilled in hydrography; a hydrographer. (b) An official grade of governmental engineering officers in some countries, as in France.—Sanitary engineer, an engineer skilled in the relation (and application) of the principles of public sanitation to engineering works and public improvements; one who is competent to design, construct, and operate public works as aids to public sanitation.—Topographic engineer, an engineer skilled in topographic surveying and mapping; a topographer.—Traveling engineer, an expert locomotive engineer sent out by railroad companies to inspect the locomotives and to instruct engine-drivers and firemen in their duties.

to instruct engine-drivers and firemen in their duties.

engineering, n.—Agricultural engineering, a department of manufacturing in which the productive processes are chemical reactions, or depend upon the laws of chemistry,—Dynamic engineering. See engineering.—Dynamic engineering, the science and the art of producing and maintaining a farming plant, including the laying out of the farm, fencing, drainage, irrigation, the construction of buildings, and the provision of machinery, also the construction and care of roads.—Sanitary engineering, that division of civil engineering which deals with the relation (and application) of the principles of public sanitation to engineering works and public improvements.—Steam engineering, that department of engineering which deals with the generation and distribution of energy by means of steam-power.—Topographical engineering. Same as topographical surreging (which see, under surreging).

engine-frame (en'jin-fram), n. The structure engine-frame (en'jin-fram), n. The structure

which connects, or ties together, the various parts of an engine. It is usually a heavy iron casting connecting the cylinder to the shaft-journals and supporting the weight of practically all the parts of the engine. engine-pit (en'jin-pit), n. A cleaning-pit; a pit made between the rails of a railroad-track

to allow room for getting underneath a loco-motive to clean or repair it. The pits are usu-ally as wide as the distance between the tracks

permits, and about 3 feet deep.
engine-stop (en'jin-stop), n. A device for closing, either automatically or by hand, the steaming, either automatically or by hand, the steam-valve of an engine in case of accident. One form consists of a falling weight with an electrical release which may be operated automatically, if the engine runs too fast, from the breakage or loss of the governor-belt, or may be operated from any one of a number of stations in case of an accident in a remote part of the works.

engine-telegraph (en'jin-tel'ē-graf), n. An apparatus used in large steam-vessels to send signals from the bridge or other station of the executive officers to the engine-room. One dial is placed at the transmitting and another at the receiving

executive officers to the engine-room. One dial is placed at the transmitting and another at the receiving end. A pointer on each dial is actuated by an operating handle at the other instrument. The connection between them is made by chains and wires, or is electric or pneumatic. The right-hand half of the dial is for orders ahead, and the left hand for orders astern. The usual arrangement is to place the order 'Stop' in the center, and others are 'Stand by,' Quarter-speed, 'Half-speed,' 'Full-speed' (ahead or astern as the case may be). The telegraph is also connected with a bell-sounding device.

englacial (en-glā'shial), a. [en- + glacial.] Being within a glacier: used, in geol., with reference to detritus carried within the ice of a glacier or ice-sheet: as, englacial drift.

a glacier or ice-sheet: as, englacial drift.

The water which descended into the ice from its surface through crevasses, or through smaller cracks or pores, had a various course. It is possible that it was sometimes concentrated into streams which had longer or shorter courses within the ice itself. On one of the Alaskan glaciers at the present time, an englacial stream appears at the surface of the ice, issuing from an ice tunnel, pursues a superglacial course for a short distance, and plunges again beneath an ice arch and pursues for an undetermined distance an englacial course.

R. D. Salisbury, Geol. Surv. of New Jersey, 1891, p. 87.

Englander, n.—Little Englander, in recent English politics, an opponent of colonial extension or of territorial aggrandizement.

politics, an opposite torial aggrandizement.

Englerophoenix (eng'ler-ō-fē'niks), n. [NL. (Kuntze, 1891), G. Engler (Adolph Engler, director of the Berlin Botanical Garden) +

Maximiliana.

English, I. a.—English cholera. See *cholera.—English schools of painting. See *painting.—English yellow. See *yellow.

II. n.—Reverse English, in billiards, a stroke which twists the cue-ball on the side opposite to the direction in which it should go after taking the first cushion

englobe (en-glob'), v. t.; pret. and pp. englobed, ppr. englobing. [en-+ globe.] 1. To inclose as in a globe: as, "youthful energy englobed within the bosom of the young." See inglobe. 1thin the bosom of the young." See ingioue.

2. Specifically, to absorb or take within the substance of a white blood-globule, amœba, or other single-celled body.

Red blood corpuscles are often englobed by this meebs (in ameebic dysentery), as are also micrococci and acilli.

Encyc. Brit., XXXI. 536.

englobement (en-glob'ment), n.
-ment.] The process of englobing. [englobe +

It is difficult to explain this difference except on the ground that the englobement of parasites in the liver is more active at certain periods of the cycle, or occurs intermittently, and that the destruction of englobed parasites may be completed very rapidly, i. e. within a few hours.

**Jour. Exper. Med., Feb. 5, 1002, p. 155.

englyn (en'glin), n. [Also englin, < W. englyn, pl. englynion.] In Welsh poetry, a stanza (now always a quatrain) of a certain metrical structure. N. E. D.

engouement, engoûment (än-gö-mon'), n. [F. (engouer, be choked in gorging.] Infatuation; an unreasoning fondness.

The young lady . . . had never received kindness except from this old spinster and her brother and father: and she repaid Miss Crawley's engoument by artless sweetness and friendship.

Thackeray, Vanity Fair, xxxiv.

An abbreviation of engraving. engraver, n. 2. A tool used in engraving; a triangular rod of steel, of different widths, with a plow-shaped point, pushed forward to make a furrow on the surface of wood or metal that is being engraved.

engraver-beetle (en-grā ver-bē'tl), n. Any beetle of the family Scolytidæ. Also called

offire views, n. The taking of impressions from raised or incised seals has always been practised by civilized people. The goldsmiths of the Middle Ages and Renaissance in Europe used engraving in the decoration of their work, and were accustomed to take impressions.

sions from their designs. Such impressions have been traced to the twelfth century. Among the earliest examples of engraving, properly so called, on metal are about three hundred prints in the dotted style (manière criblée) in which black spots are relieved against white and white spots against black, which date from about 1450 A.D. The practice of engraving was encouraged by the use of niello in the decoration of metals. (See niello.) Undoubtedly frequent impressions were taken from niello designs. For making plates to print upon paper, copper and later stel were substituted for other metals. Engraving on copper was extensively practised by the great artists of the Renaissance, as Pollajuolo, Mantegna, Botticelli, and Marcantonio Raimondi in Italy, and Martin Schongauer and Albert Dürer in Germany. In France engraving on copper found its first development in the illustration of books, as in the architectural series of Jacques I. Androuet Du Cerceau. In the seventeenth century the largest development of engraving on metal occurred about the powerful personalities of Rembrandt and Rubens. The influence of Rubens, especially, brought about the culmination of the art. After this period, engraving on copper and steel became universal throughout modern civilization. The special contribution of England to the art of engraving on metal was the development of mezzotint, which was, however, invented in Holland in the middle of the seventeenth century. Wood-engraving was brought to perfection by the large school of German artists of the Renaissance grouped about the court of the Emperor Maximilian I. The chief of them was Albert Dürer who may still be considered the greatest master of the art. From Germany the art of wood-engraving was carried into Italy, and practised with a peculiar charm by the painters of the quattrocento and cinque-cento. The father of the modern art of wood-engraving was carried into Italy, and practised with a peculiar charm by the painters of the engraver book. The principles of Bewick have been

the hills. J. S. Blackie.

engroove (en-gröv), v. t.; pret. and pp. engrooved, ppr. engrooving. [en-1 + groove.] 1.

To fit into a groove. Tennyson. — 2. To Channel: as, "a narrow glen, engrooved with sliding water," R. D. Blackmore.

Enhanced line. See *line2.
enhancive (en-han'siv), a. [enhance + -ive.]

That tends or serves to enhance, heighten, or
intensify: that imparts added force: as, an en-

intensify; that imparts added force: as, an en-Also enhanhancive sentence, or expression.

enhemospore (en-hem'ō-spōr), n. [Gr. $\dot{\epsilon}\nu$, in, $+ai\mu a$, blood, $+\sigma\pi op\dot{a}$, seed (spore).] In the division of the malarial parasite within a red blood-corpuscle, one of the nucleated segments into which the protoplasmic body of the parasite separates. On the breaking up of the corpuscle the segments are set free and then in-

vade fresh corpuscles.
enhydritic (en-hī-drit'ik), a. [enhydrite + -ic.]

Of or pertaining to an enhydrite.

enjewel (en-jö'el), v. t.; pret. and pp. enjeweled, enjewelled, ppr. enjeweling, enjewelling. [en-1 + jewel.] To bejewel.

To lone lake that smiles, In its dream of deep rest, At the many star-isles That enjewel its breast.

At the many star-isles

That enjewed its breast.

Poe, Al Aaraaf, it.

en l'air (on lar). [F.] In the air; unsupported: said of the flank of a line of battle which does not rest on an impassable obstacle. enlarge, v. t. 8. To cause (a horse) to spread his legs wider apart, so as to prevent him from interfering.

To enlarge your horse you should prick him with both heels, or aid him with the calves of your legs, and beary our hand outwards.

To enlarge your horse you should prick him with both heals, or aid him with the calves of your legs, and beary our hand outwards.

To enlarge your horse you should prick him with both heels, or aid him with the calves of your legs, and beary our hand outwards.

To enlarge your horse you should prick him with both heels, or aid him with the calves of your legs, and beary our horse you should prick him with both heels, or aid him with the calves of your legs, and beary our horse you should prick him with both heels, or aid him with the calves of your legs, and beary our horse you should prick him with both heels, or aid him with the calves of your legs, and beary our horse.

To enlarge your horse you should prick him with both heels, or aid him with the calves of your legs, and beary our horse you should prick him with both heels, or aid him with the calves of your legs, and beary our horse.

To enlarge your horse you should prick him with both heels, or aid him with the calves of your legs, and bear your hand outwards.

T. Wallis, Farrier's Dict.

To enlarge an estate, to give to the tenant of a particular estate another estate in the same property superior to that already held.—To enlarge the pocket. See **pocket.

enlife (en-lif'), v. t.; pret. and pp. enlifed, ppr. enlifing. [en-1 + life.] To impart life to; enliven.

Ven.

. . . As if they knew
What music slept enchanted in each stem,
Till Pan should choose some happy one of them,
And with wise lips enlife it through and through.

Lowell, Invita Minerva, st. 5.

enneacontahedral (en"ē-a-kon-ta-hē'dral), a. [enneacontahedron + -al.] Having 90 faces. enneacontahedron (en"ē-a-kon-ta-hē'dron), n.

[Gr. *ἐννεάκοντα, assumed form for the actual ένενήκοντα, ninety, + έδρα, seat, base. [A polyhedron of 90 faces.

enneacteric (en'ē-a-e-ter'ik), a. [Gr. ἐνναἐτηρος, nine years old, ζ ἐννέα, nine, + ἐτος, a year.] Containing or consisting of nine years: as, an enneaeteric period. Grote.

Enneagynia (en'ē-a-jin'i-ā), n. pl. [NL.. < Gr. εννέα, nine, + γινή, femāle (style).] In the Linnæan artificial system of botanical classification, an order in any of the first thirteen classes characterized by having flowers with

enneaphyllous (en-ē-af'i-lus), a. [Gr. ἐννέα, nine, + φύλλον, leaf, + -ous.] Having nine leaflets: said of a compound leaf.

Enneapla (en'e-ap'lā), n. [Gr. $\dot{e}\nu\nu\ell a$, nine, + $-\pi\lambda o o o$ (neut. pl. $-\pi\lambda a$), fold. Cf. Hexapla.] An edition of the Old Testament ascribed to Ori-

edition of the Old Testament ascribed to Origen, containing nine versions of the Scriptures in parallel columns. Only a single reference is found to the work and there is doubt as to its existence.

ennearctic (en-ē-ārk'tik), a. [Gr. ἐν, in, + Ε. Nearctic.] Confined to the Nearctic region.

ennomocion (e-nom'ō-klōn), n.; pl. eunomoclones (-klō'nēz). [Gr. ἐννομος, lawful, regular, + κλών, a twig.] In the terminology of the spicular elements of the sponges, a four-rayed spicule, in which one arm is shortened and inflated.

Enochic (ē-nok'ik), a. [Enoch + -ic.] Of or pertaining to the patriarch Enoch, the seventh from Adam, whose alleged prophecies (as recorded in the apocryphal Book of Enoch) are supposedly quoted in the Epistle of Jude, verse 14.— Enochic literature, the literature that has grown up around the apocryphal Book of Enoch, mentioned by the early Christian fathers and later writers, but first made definitely known in Europe through three copies of an Ethiopic version of it brought from Abyssinia by Bruce, the African traveler (1730-94), and translated into English in 1821 Bruce, the Afri English in 1821.

enol (en'ol), n. [Appar. for *henol, < Gr. eig (év-), one, +-ol.] One of several compounds containing the unsaturated alcoholic group -CH:COH-. These compounds pass more or less readily into the isomeric or tautomeric group -CH₂.CO-, which is called the ketone form.

enolic (e-nol'ik), a. Of or pertaining to an

enophite (en'o-fit), n. [Gr. &v, in, + E. ophite (serpentine).] An uncertain alteration-product from the chrysolite rocks of Krems, Bohemia. It is intermediate in composition between the

chlorites and serpentine. Enophrys (e-nof'ris), n. [NL., \langle Gr. $\dot{\epsilon}\nu$, in, όφρες, brow.] A genus of sculpins of the



Enophrys bison (From Bull. 47, U. S. Nat. Museum.)

North Pacific, characterized by the long unbranched preopercular spine. E. bison is the buffalo-sculpin of the Puget Sound region.

enophthalmia (en-of-thal mi-ä), n. [NL.] A more correct form for enophthalmus.

or left en prise.

enroll, v. i. 4. In law, to engross; to prepare in proper legal form; also, specifically, to make a legislative bill ready for the consideration of the Executive.—Enrolled bill. See *bill3. ens. An abbreviation of ensign.

Ens legis (L., a being of the law), in law, a thing created by law, as a corporation.

ensanguin, v. t. A simplified spelling of en-

ensellure (an-se-lür'), n. [F., < enseller, saddle, < en, in, + selle, saddle: see sell'2.] In anthrop., a strongly marked curve of the dorsolumbo-sacral region. Deniker, Races of Man.

ensemble, n.—Grand ensemble, in statistical mechanics, an ensemble of systems, in which the various systems are composed of particles of various kinds and in which the systems differ both in phase and in the number of particles which they contain.

A grand ensemble is therefore composed of a multitude of petit ensembles. J. W. Gibbs, Statistical Mech., p. 190. Microcanonical ensemble, an ensemble of systems, in statistical equilibrium, such that all the systems have the

In a microcanonical ensemble of systems the energy (E) is constant, but the kinetic energy (E₀) and the potential energy (E₈) vary in the different systems.

J. W. Gibbs, Statistical Mech., p. 116.

Petit ensemble, an ensemble of systems in which the systems differ only in phase. J. W. Gibbs.—Time ensemble, the "ensemble of phases through which a single system passes in the course of time." J. W. Gibbs, Statistical Mech., p. 169.

II. a. In music, same as concerted: as, an analysis processes.

ensilist (en-si'list), n. [ensile + -ist.] One who constructs or uses silos for the storing of

En-Soph (en-sof), n. [Heb., the infinite, lit. 'no end.'] In cabalistic doctrine, the Deity, prior to the creation of the universe, from which the ten attributes forming the Adam Kadmon emanated. See *Sephiroth, *Adam

enspell (en-spel'), v. t. [en-1 + spell'1.] To cast a spell upon; charm; fascinate; enchant. enstatitic (en-stā-tit'ik), a. [enstatite + -ic.]
Pertaining to, resembling, or containing en-

statite. ent., entom. Abbreviations of entomology ent., entom. Addreviations of entomology. entacmasous (en-tak-mē'us), a. [Gr. ἐντός, within, + ἀκμαὶος, adj., ⟨ἀκμή, point: see acme.] In actinians, having the tentacles of the inner longer than those of the outer cycles. Trans. Linnean Soc. London, Zool., Oct., 1902, p. 299. entacoustic (en-ta-kös'tik), a. [Gr. ἐντός, within, + ἀκουστικός, of hearing.] Relating to or originating within the organ of hearing. entailable (en-tā'la-bl), a. [entail + -able.]

or originating within the organ of hearing.

entailable (en-tā'la-bl), a. [entail + -able.]

Capable of being left in fee-tail; also, often used with reference to any property that is capable of being left by will.

Ental valve. See *valve.

entapophysial (en-ta-po-fiz'i-al), a. Of or pertaining to an entapophysis. See *enta-po-physics.

entapophysis (en-ta-pot'i-sis), n. [Gr. ἐντός, within, + ἀπόφυσις, apophysis.] An internal apophysis; an apophysis that projects internally, as with many arthropods.

nally, as with many arthropods. The wall of the cosphageal portion of the foregut [in spiders]... is supplied with a well-developed post-cerebral sucking-apparatus lying on the upperside of the entesternite and worked by powerful lateral muscles which attach it to this plate, and by a dorsal muscle which passes from its chitinous dorsal wall through the sortie space of the "stomach" to the median entapophysis of the carapace.

Proc. Zool. Soc. London, 1902, p. 185.

of larvæ in the intestine, and the morbid state resulting therefrom.

enteropexy (en'te-rō-pek'si), n. [Gr. &vrepov, intestine, $+\pi\bar{\gamma}\xi u$, attachment.] In surg., an operation for the attachment of a portion of the intestine to the anterior abdominal wall.

enterophthisis (en'te-rof'thi-sis), n. [NL., <

entarthrotic (en-tär-throt'ik), a. [Gr. ἐντός, within, + ἀρθρον, joint, + -ot-ic.] Same as interarticular.

entepicondylar (en-tep-i-kon'di-lär), a. [Gr. $\dot{\epsilon}\nu\tau\dot{\epsilon}\varsigma$, within, $+\dot{\epsilon}\pi\dot{\epsilon}$, upon, $+\dot{\kappa}\dot{\nu}\dot{\nu}\dot{\nu}\varsigma$, condyle, $+-ar^{2}$.] 1. On the inner side of the humerus and above the condyle: as, the entepicondylar foramen, a foramen so situated, found in the humeri of many mammals and very characteristic of the cats.—2. Relating to the internal epicondyle or entepicondyle.

entepicondyle (en-tep-i-kon'dil), n. [Gr. $\dot{\epsilon}\nu\tau\delta\varsigma$, of some or all of the other abdomina within, $+\dot{\epsilon}\pi\dot{\epsilon}$, upon, $+\kappa\delta\nu\delta\nu\lambda\rho\varsigma$, condyle.] The due to want of tone in the abdomin process or projection just above the inner Also called $Gl\acute{e}nard^*s$ disease. condyle of the humerus; the internal epicon-enterorrhexis (en'te-rō-rek'sis), n.

intestine, $+ \kappa \lambda \nu \sigma \mu \delta \zeta$, a drench, $< \kappa \lambda \delta \zeta \varepsilon \nu \nu$, incompletely stated: as, an enthymematic syldrench.] Same as *enteroclysis. enterocole, n. 2. A body-cavity or colon entiris (en-ti'ris), n. [NL., < Gr. $\dot{\epsilon} \nu \tau \delta \zeta$, withwhich arises as a diverticulum from the digestive cavity of the embryo. Parker and Hasvell, Zoology, I. 359. entity, n. 3. An individual fact or conception,

Enterocelic pouch. See *pouch.
enterocelostomy (en' te-rō-kō-los'tō-mi), n.
[Gr. εντερον, intestine, + κόλον, colon, + στόμα,
mouth.] In surg., the establishment of an artificial communication between the colon and some portion of the small intestine.

enterocyst (en'te-ro-sist), n. [Gr. ἐντερον, in- entoblast, n. 2. In embryol., one of the testine, + κύστις, bladder (cyst).] Cystic tu- blastomeres or segments of the egg which

mor of the intestine.

entero-enterostomy (en'te-rō-en-te-ros'tō-mi), n. [Gr. ἐντερον, intestine, + ἐντερον, in-entobronchium (en-tō-brong'ki-um), n.; pl. testine, + στόμα, mouth.] The operative formation of a permanent communication between two originally non-continuous portions of the intestine.

Med. Record, Feb. 28, 1903, distation of the bronchus. р. 352.

enterograph (en'te-rō-graf), n. [Gr. εντερον, intestine, + γράφειν, write.] A medical instrument for recording the peristaltic movements of the intestines.

enterohematin (en'te-rō-hem'a-tin), n. [Gr. $\ell \nu \tau \epsilon \rho \sigma \nu$, intestine, $+ a l \mu a (\tau -)$, blood, $+ -i n^2$.] A red pigment found in the so-called livers of certain invertebrates.

enteroid (en'te-roid), a. [Gr. εντερον, intestine, + eloos, form.] Shaped like a bowel or intes-

enteromere (en'te-rō-mēr), n. [Gr. $\ell \nu \tau \epsilon \rho \sigma \nu$, intestine, $+ \mu \ell \rho \sigma \rho$, part.] A segment of the intestinal tract in the embryo.

enteromylasis (en'te-rō-mi-i-ā'sis), n. [NL., ζ Gr. εντερον, intestine, + μνία, fly.] Presence of larvæ in the intestine, and the morbid state

Gr. εντερον, intestine, + φθίσις, consumption: see phthisis.] Intestinal tuberculosis. enteroplegia (en'te-rō-plē'ji-#), n. [NL., < Gr. εντερον, intestine, + πληγή, stroke.] Paralysis of the muscular coat of the intestine. enteropneust (en'te-rop-nüst), n. In zoöl., a worm-like animal belonging to the group Enteropneusta.

enteroptosis (en-te-rop-tō'sis), n. [NL., ζ Gr. εντερον, intestine, + πτῶσις, falling.] Prolapse or sinking down of the intestines, and usually of some or all of the other abdominal viscers due to want of tone in the abdominal wall.

Also called Glénard's disease.

Gr. $\ell \nu r \epsilon \rho \rho \nu$, intestine, + $\ell \rho \bar{\eta} \xi \iota \varsigma$, rupture.] Rupture of the intestine.

enterosepsis (en'te-rō-sep'sis), n. [NL., ζ Gr. ἐντερον, intestine, + σῆψις, putrefaction.] Blood-poisoning by absorption of toxic materials formed within the intestine.

enterospasm (en'te-rō-spazm), n. [Gr. ἐντερον, intestine, + σπασμός, spasm.] Spasmodic colic. enterostomy (en-te-ros'tō-mi), n. [Gr. ἐντερον, intestine, + στόμα, mouth.] Formation, by a surgical operation, of a permanent opening into the intestine. Same as enterotomy, 2.

enterotome (en-ter'ō-tōm), n. [Gr. ἐντερον, intestine, + -τομος, ⟨ ταμείν, cut.] A portion of the embryo of vertebrates containing those structures which later develop into the diges-

enterozoic (en'te-rô-zô'ik), a. Of or pertaining to the Enterozoa.

Enthelminthes (en-thel-min'thēz), n. pl. [NL.]
Same as Enthelmintha.

entheomania (en'the-ō-mā'ni-ā), n. [NL., ζ Gr. ἐνθεος, inspired, frenzied, + μανία, madness.] Religious frenzy.

ness.j religious frenzy.

enthlasis (en'thla-sis), n. [Gr. ἐνθλασις, a dent caused by pressure, ⟨ ἐνθλαν, dent by pressure, ⟨ ἐν, in, + θλαν, crush.] A comminuted depressed fracture of the skull.

enthymematic (en-thi-mē-mat'ik), a. In logic, of the nature of or containing an enthymeme;

entity, n. 3. An individual fact or conception, having in itself all that is needed to constitute a characteristic whole.

Palpable enlargement of the pylorus, in infants a few weeks old, has now come to be recognized as a definite clinical and pathological entity.

Therapeutic Gazette, Feb. 15, 1908, p. 141.

entocalcaneal (en-tō-kal-kā'nō-al), a. [Gr. broc, within, + NL. calcaneum + -al.] Situated on the inner side of the calcaneum or heel-bone: specifically applied by Owen to the innermost of the ridges or projections on the posterior face of the proximal end of the tarsometatarsus of a bird.

tarsometatarsus of a bird.
entochoroidea (en-tō-kō-roi'dō-ā), n. [NL., $\langle Gr. \dot{\epsilon}\nu\tau\delta_{\zeta}$, within, + NL. choroidea.] The posterior layer of the choroid.
entocnemial (en-tok-nō'mi-al), a. [Gr. $\dot{\epsilon}\nu\tau\delta_{\zeta}$, within, + $\kappa\nu\eta\mu\eta$, tibia, + -al.] Situated on the inner side of the tibia.

tine.
enterokinase (en'te-rō-kin'ās), n. [Gr. ἐντερον, intestine, + E. kinase.] A kinase found in the intestinal mucous membrane, which renders the pancreatic trypsin physiologically active. Similar bodies probably occur elsewhere in the mammalian organism, and have also been noted in bacteria and in snake-venom.

Gr. ἐντερον.

**MILLIN,
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**Trans. Linnean Soc. London, Zool., Oct., 1902,

entocœlic (en-tō-sē'lik), a. Same as enterocœlic.

entocondylar (en-tō-kon'di-lār), a. [Gr. εντός, within, + κόνουλος, condyle, + -ar³.] Relating to the entocondyle, or inner articular face of such a bone as a femur: contrasted with *ectocondylar.—Entocondylar cavity, the cavity or depression receiving the entocondyle, as in the targometatarsus of a bird.

metatarsus of a birti. entocondyloid (en-tō-kon'di-loid), a. [ento-condyl-ar + -oid.] Relating to the inner side

or portion of a condyle, or such an articula-tion as that of the distal end of the humerus. entoconid (en-tō-kon'id), n. [Gr. $\epsilon \nu r \phi_{\gamma}$, within, + $\kappa \tilde{\omega} \nu \phi_{\gamma}$, cone, + $-id^2$.] The posterointernal cusp of a lower molar. See cut under *tooth.

entocornea (en-tō-kôr'nē-ā), n. [NL., < Gr. evrós, within, + NL. cornea, cornea.] Same as membrane of Demours or Descemet (which see, under membrane).

see, under membrane).
entocranial (en-tō-krā'ni-al), a. [Gr. ἐντός, within, + κρανίον, cranium, + -al.] Same as endocranial.

L. O. Howard, in Yearbook, U. S. Dept. Agr., 1901, p. 400.
Entomosporium (en'tō-mos-pō'ri-um), n. [NL. endocranial.]
(Léveillé, 1858), ⟨Gr. ἐντομον, insect, + σπορά, seed (spore).]

entocyst (en'tō-sist), n. Same as endocyst.
entoglossum (en-tō-glos'um), n.; pl. entoglossa (-ā). [NL., < Gr. ἐντός, within, + γλῶσσα, tougue.] The foremost bone of the hyoid apparatus of a bird, lying in the substance of the tongue: really composed of a pair of bones properly known as ceratohyals.

Entognathi (en-tog'na-thi), n. pl. [NL., ζ Gr. εντός, within, + γνάθος, jaw.] A proposed group of thysanurous insects including the Campodeidæ, the Japygidæ, and the various families of Collembola.

entohyal (en.tō-hi'al), n. [Gr. ἐντός, within, + hyal(oid).] One of a chain of median bones in the lower part of the gill-arches in fishes: same as basibranchial. Starks, Synonymy of the Fish Skeleton, p. 518.

Entoloma (en-tō-lō'mā), n. [NL. (Quélet, 1882), ⟨Gr. ἐντός, within, + λῶμα, fringe.] A genus of agaries having reddish or pinkish angular spores, a somewhat fleshy stem and pileus, and no volva or annulus. The species are widely distributed, occurring in fields and woodlands.

**Entomacrodus* (en-tō-mak'rō-dus), n. [NL., ⟨Gr. ἐντομος, cut in, + ἀκρος, at the extremity, + ὁδοἰς (ὁδοντ-), tooth.] A genus of small blennies of the tropics, differing from Salarias in the presence of the long canines. entomeric (en-tō-mer'ik), a. Pertaining to or

of the nature of an entomere.

entomesoblast (en-tō-mes ō-blast), n. [Gr. εντός, within, + μέσος, middle, + βλαστός, germ.]
A layer or cluster of embryonic cells which

A layer of cluster of embryonic cens which have not yet been differentiated into entoblast and mesoblast proper.

entometatarse (en-tō-met'a-tārs), n. [Gr. ἐντός, within, + Ε. metatarsus.] The internal face of the tarsometatarsus of a bird. Owen. (Rare.

Entomidæ (en-tom'i-dē), n. pl. [NL., < Entomis + -idæ.] A Paleozoic family of ostracode crustaceans, characterized by short, strongly convex, subequal bivalve tests with a depression near the middle of the dorsal region.

region.
entomion (en-tō'mi-on), n.; pl. entomia (-ä).
[NL., < Gr. ἐντός, within, + ωμος, shoulder.]
In craniom., the anterior point of the mastoid angle of the parietal bone. Von Török.
Entomis (en'tō-mis), n. [NL., < Gr. ἐντομίς, a gash, < ἐντομός, cut in.] The typical genus of the family Entomidæ.

Entomoconchidæ (en'tō-mō-kong'ki-dō), n. pl. [NL., < Entomoconchus + -idæ.] A family of Carboniferous ostracode crustaceans, characterized by subglobose, somewhat inequivalve shells, with a truncate front edge and a slit on the central portion of the margin.

on the central portion of the margin.

Entomoconchus (en'tō-mō-kong'kus), n. [NL., ⟨ Gr. ἐντομος, cut in, + κόγχη, a shell.] The typical genus of the family Entomoconchidæ.

Entomophila (en-tō-mof'i-lä), n. pl. [NL., ⟨ Gr. ἐντομον, insect, + φίλος, loving.] A group of hymenopterous insects (according to Ashmod's elegification) having the hymonycium mead's classification) having the hypopygium entire, the pronotum not extending back to the tegulæ, and the tarsi slender. It includes the families Crabronidæ, Pemphredonidæ, Bembecidæ, Larridæ, Trypoxylonidæ, Philanthidæ, Nyssonidæ, Sphecidæ, and Ampulicidæ.

entomophilous, a. 2. In phytogeog., parasitic on insects: said of a class of fungi. Pound and Clements.

Entomophthoracese (en'tō-mof-thō-rā'sē-ē), n. pl. [NL., < Entomorphthora + -aceæ.] A family of phycomycetous fungi named from the genus Entomorphthora. See Entomorph-

(en to-mof-tho-ra' entomophthoraceous Belonging or pertaining to the

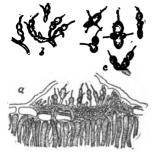
shius), a. Belonging or pertaining to the Entomophthoraceæ.

Entomophthorales (en'tō-mof-thō-rā'lēz), n. pl. [NL., < Entomophthora + -ales.] An

order of entomogenous fungi containing the single family Entomophthoraces. See Entomophthorese.

Entomophthorinese (en'tō-mof-thō-rin'ē-ē), n.
pl. [NL.] Same as *Entomophthorales.
entomophthorous (en-tō-mof'thō-rus), a. Pertaining to or caused by a fungus of the genus Entomophthora.

A view of grasshoppers dead or dying from entomoph-orous disease.



Entemosporium macuasum.

a, section of leaf, through a disease-spot, showing a fruit pustule of the fungus containing spores in different stages of development; b, young spores, showing method of development and attachment to the mycelium; c, mature spores, all highly magnified. (Drawn from Report of U. S. D. A.)

A genus of parasitic fungi of the order Sphæropsidales, having black flattened pycnidia without ostiola. Out Ostiola.

The spores usually become four-celled and furnished with slender appendages. E. maculatum causes the leaf-blight of the pear and quince. pear and quince. See leaf-*blight. entomosteg-ous (en-tō-mos'tē-gus), a. Belonging to the *Entomos-*tega, a divia divi-

sion of Foraminifera; characterized by having the cells subdivided by transverse partitions. entomostomatous (en'tō-mos-tō'ma-tus), a. Belonging to the Entomostomata, siphonobran-chiate gastropods which have the lip of the shell notched.

entophthalmia (en-tof-thal'mi-ä), n. [NL., ζ Gr. ἐντός, within, + ὑφθαλμία, ophthalmia.] Inflammation of the inner structures of the eveball.

entopic (en-top'ik), a. [Gr. ἐντοπος, in or of a place, ⟨ ἐν, in, + τόπος, place.] Being or occurring in the proper place: as, entopic gestation.

entoplasm (en'tō-plazm), n. [Gr. ἐντός, within, + πλάσμα, anything formed.] Same as ondo-

entoplastral (en-tō-plas'tral), a. [entoplas-tr-on + -all.] Relating to the entoplastron, the bone in the plastron of a turtle that corre-sponds to the interclavicle of other reptiles.

entoptoscope (en-top'tō-skōp), n. [Gr. ἐντός, Entotrophi (en-tot'rō-fi), n. pl. [NL., ⟨ Gr. within, + ὁπτ(κός), of seeing (see optic), + ἐντός, within, + τροφός, feeder, nurse: see σκοπεῖν, view.] An instrument employed in testing the transparency of the media of the eye. A beam of light enters the eye through a minute to or harmonic characteristics of the Entotrophous. eye. A beam of light enters the eye through a minute hole in an opaque diaphragm, and any opacities in the lens or humors of the eye are projected as distinct shadows on the retina.

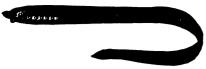
entoretina (en-tō-ret'i-nā), n.; pl. entoretinæ (-nē). [NL., <Gr. ἐντός, within, + NL. retina.] The inner layer of the retina.

entorganism (ent-ôr'gan-izm), n. [Gr. $i\nu\tau\delta\varsigma$, within, + E. organism.] An internal parasite. entosclerite (en- $t\bar{\phi}$ -sklē'rīt), n. [Gr. $i\nu\tau\delta\varsigma$, within, + $\sigma\kappa\lambda\eta\rho\delta\varsigma$, hard, + $-ite^2$.] A sclerite that is entirely internal, having no external portion, as the prophragma or mesophragma of an insect. Proc. Zool. Soc. London, 1902,

entoseptum (en-tō-sep'tum), n.; pl. entosepta (-tā). [NL., < Gr. ἐντός, within, + L. septum, sæptum, a partition.] In corals, a septum developed within an entocœle. Compare *ezoseptum developed within an entocœle. Annals and Mag. Nat. Hist., Feb., 1903, p. 147.

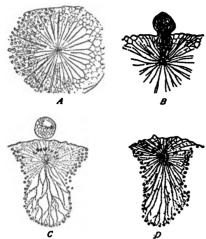
entosolenian (en'tō-sō-lē'ni-an), a. [Gr. ἐντός, within, + σωλήν, a channel, pipe.] Having an internal neck or tube, as the foraminifer Lagena globosa. Compare *ectosolenian. Smith-sonian Rep. (Nat. Mus.), 1897, p. 306.

Entosphenus (en-tō-sfē'nus), n. [NL., < Gr. εντός, within, + σφήν, wedge.] A genus of lampreys running in the rivers from California northward on the Pacific slope. E. tridentatus is the common large lamprey of the Pacific



Entosphenus tridentatus. (From Bull. 47, U. S. Nat. Museum.)

entosphere (en'tō-sfēr), n. [Gr. ἐντός, within, + σφαῖρα, a bail.] In cytol., the inner or medullary zone of the centrosphere of the cell. Ziegler, 1899.



Centrosome and aster in the polar mitoses of Ursio. (Lillie).

A, aster of the first polar figure, central granule (centrosome surrounded by medullary (entosphere) and cortical (ectosphere cones; B, late anaphase of second polar mitosis, radial entosphere bounded by continuous membrane; C, D, prophases o second mitosis, formation of central spindle within and from the substance of the old entosphere. (From Wilson's "The Cell.")

entostosis (en-tos-tō'sis), n. [NL., ζ Gr. ἐντός, within, + ὀστ(ἐον), bone, + -osis.] Same as enostosis or endostosis.

entotentacle (en-tō-ten'ta-kl), n. [Gr. ἐντός, within, + NL. tentaculum, tentacle.] One of the radially arranged tentacles which arise later than the exotentacles and from the en-

to celes of a coral polyp.

entothorax (en-tō-thō raks), n. [Gr. $\ell\nu\tau\delta\varsigma$, within, + $\theta\omega\rho\alpha\xi$, thorax.] A chitinous process, probably an elaborate inward fold of the integument, which projects upward in a forked manner from the sternum. Also called apo-

rophi or Entognathi.

entotympanic (en 'tō-tim-pan'ik), a. [Gr. έντος, within, + τύμπανον, drum: see tympanum.] Situated or occurring within the drum of the ear.

entozoal (en-tō-zō'al), a. [entozo-on + -all.] Caused by the presence of Entozoa: as, an entozoal disease.

entozodi disease.

entozodlogically (en'tō-zō-ō-loj'i-kal-i), adv.
From the point of view of an entozoölogist,
or regarding entozoölogy.

entrain¹, v. t. 2. To carry along mechanically by the flow of another fluid at high velocity.

locity. Thus water may be carried through a pipe with steam at such a rate that it cannot be precipitated and attach itself to the walls of the pipe, but must move with the steam into the engine-cylinder or other vessel into which the pipe delivers. Sci. Amer. Sup., Dec. 27, 1000 p. 9555

entrain² (en-tran'), v. [en-1 + train¹.] I. trans. To put aboard a train.

I doubt very much whether, in Russia, a whole army corps was ever entrained or embarked, secretly and noiselessly, in the latter half of a single night; but in Japan this has been done again and again.

George Kennan, in Outlook, June 18, 1904, p. 402.

somen nep. (Nat. Mus.), 1897, p. 306.

entosphenal (en-tō-sfē'nal), n. [Gr. ἐντός, within, + σφήν, a wedge, + -all.] A bone in fishes anterior to the bones above the myodome: same as basisphenoid. Starks, Synonymy of the Fish Skeleton, p. 512.

Entosphenus (en-tō-sfē'nus) π. (All sintrans) George Kennan, in Outlook, June 18, 1904, p. 402.

II. intrans. To go aboard a train. entrainer (en-trān'ér), n. A device for saturating a current of gas or steam with liquid: usually a hollow or pocket for collecting a liquid in such a way that it will be picked up by a passing current of gas or steam. urating a current of gas or steam with liquid:

by a passing current of gas or steam.

entrainment (en-train'ment), n. The act of entraining; specifically, the catching up and conveying away by live steam of minute drops of water from a boiler or of particles of sugar from an evaporating-pan or other vessel from which steam is expected. which steam is exhausted.

movement in producing a sound; the 'attack' + -atic. The proper form is enzymic.] Reor on-glide. Scripture, Exper. Phonetics, p. lating to an enzym or ferment; enzymic. 429.—8. In music of a concerted sort, the enzymation (en-zi-mā'shon), n. [enzym + point at which or the effect with which any -ation.] The process of affecting with an entrance1. one of the parts begins, especially when not of entrance, same as *entrance-pupil and interfusion *deisk (which see). Jour. Roy. Micros. Soc., June, 1904, enzymic (en-zim'ik), a. Relating to or of the

entrance-cone (en'trans-kon), n. In em-bryol., the conical pro-trusion of the surface protoplasm of the egg at the point of entrance of the spermatozoon.

(en '-In a entrance-pupil trans-pu"pil), n. In a lens system, the circular space corresponding in size and position to the image which is formed of the stop by that portion of the system which lies between the stop and the object.

See interfusion *disk.
entrancing (en-trans'ing), p. a. That entrances or transports
with delight or won-

der: as, entrancing music; an entrancing tale. entrechat (on-tr-shā'), n. [F., < It. intrecciata (sc. capriola), a complicated caper, pp. of intrecciare, complicate, < in, in, + treccia, plait, tress.] A leap in ballet-dancing, during which the performer strikes his heels together several times.

"Mr. Edgeworth excelled me so much" [said the stranger], "that I sat down upon the ground, and burst out a crying; he could actually complete an entrechat of ten distinct beats, which I could not accomplish."

Edgeworth, Memoirs, II. vi.

entrée, n. 5. An old dance resembling the polonaise, or the music for it.

polonaise, or the music for it.

Entropy leakage, a lowering of the value of the entropy factor in the expansion of a heat-medium, and a consequent lowering of the intrinsic energy of the medium, without a corresponding useful expenditure of mechanical energy to overcome a resistance. The heat-energy of the medium is dissipated without doing work, as the water is wasted which leaks from a mill-dam.—Principle of the increase of entropy, the principle (due to Clausius) that, owing to the inequalities of temperature between different points, the entropy of the universe continually tends to increase.—Unit of entropy, the *claus (which see).

tinually tends to increase.—Unit of entropy, the *ciaus (which see).

**Entry sign, in **music.* (a) In a canon that is but partly written out, a mark indicating the point at which the imitating part is to begin. (b) A sign from a conductor to a singer or player to begin. (b) A sign from a conductor to a singer or player to begin. Table of double entry, a table having two arguments, as for example, a multiplication table. It may or may not be arranged so that one argument is entered at the top and the other at the side. As long as the quantities in the table vary with two independent quantities, or appellations, to be entered, it remains a table of double entry, however arranged. Tables of triple, quadruple, etc., entry would be possible; but they are little used, since any table of N + 1 arguments can be replaced by N tables of double entry, though a larger number will often be convenient. A table of double entry cannot be reduced to a table of single entry.—Writ of entry, in common law, a writ which lies in favor of one having a right of entry to recover possession of lands wrongfully withheld.

entry-clerk (en'tri-klerk), n. A clerk whose

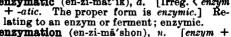
entry-clerk (en'tri-klerk), n. A clerk whose business is to make entries in the proper book or books; in common usage, a clerk in a mer-cantile establishment who keeps a book of original entry in which all purchases and sales are recorded in the order of their occurrence. entry-word (en'tri-werd), n. The word under which a book is listed or entered in a catalogue.

logue. **Entyloma** (en-ti-lō'mä), n. [NL. (De Bary, 1874), \langle Gr. $\dot{\epsilon}\nu\tau\nu\lambda\delta\upsilon\sigma\theta a$, to grow hard, \langle $\dot{\epsilon}\nu$, in, $+\tau\dot{\epsilon}\lambda\sigma$, a callus.] A genus of parasitic fungi of the order *Ustilaginales*. The mycellum is intercellular and not gelatinous as in most smut-fungl. The spores are intercalary or terminal, usually forming groups in the tissue of the host, but not separating from it. Some of the species produce gall-like swellings, and many bear simple conidia. About 70 species have been described. *E. Physalidis* is common on species of *Physalis*. **enucleate**, v. t. 3. In *cytol*., to deprive (the cell) of its nucleus; to denucleate. **enuf**, a., n., adv., and interj. A simplified spelling of *enough*.

ing of enough.

Env. Ext. An abbreviation of Envoy Extraor-

dinary.
enzoöty (en-zō'ō-ti), n. [Gr. έν, in, + (epi)zoöty. A contagious disease of animals, such as infectious abortion of cattle, confined to small localized regions. A contagious disease of animals, such



enzym.—Oxidizing enzymation, the so-called to-bacco *fermentation (which see). Also oxidizing enzymosis.

nature of an enzym

enzymol (en'zi-mol), n. [enzym + -ol.] A proteid ferment used in place of hydrogen peroxid as a wash for the ulcerated surface of the pharynx.

enzymology (en-zi-mol'ō-ji), n. [MGr. ἐνζυμος, leavened (see enzym), + -λογια, < λέγειν, speak.]

The study of enzyms.

enzymosis (en-zi-mō'sis), n. [enzym + -osis.]

Fermentation by non-organized ferments.

Fermentation by non-organized ferments. Roberts.

Entrance-cone in Sea-urchin's Egg. (Magnifect.)

A. sperm-head before entrance; n. nucleus; m, middle plece and part of the fixed liming. B. C. sperm-head immediately after entrance. showing entrance-cone; D. rotation of the sperm-aster about the middle plece, centrosome at focus of the rays. The changes faured occupy about eight minutes. (From Wilson's "The Cell.")

Fermentation by non-organized ferments. Roberts.

E. O. A game of chance, in which the appropriation of the stakes is determined by the falling of a ball into one of several niches marked E or O respectively. N. E. D.

90- (ē'ō). [Gr. ηως, dawn: see eocene, etc.] In petrog., specifically, a prefix used before the names of rocks, chiefly volcanic, to indicate that they were erupted in geologically ancient time as distinguished from Tertiary or recent time. Its use was snower.

ancient time as distinguished from Tertiary or recent time. Its use was suggested by 0. Nordenskjöld in 1893. The resulting terms are eobasalt, eodacite, eorhyolite, etc.

Eocardidæ (ē-ō-kār'di-dē), n. pl. [NL. Eocardia, the type genus, +-idæ.] A family of small fossil rodent mammals, containing species of the genera Helomys, Phanomys, Palæocarida, etc., from the Santa Cruz formation (Miocene) of Petgonia.

the genera Helomys, Phanomys, Patæccarida, etc., from the Santa Cruz formation (Miocene) of Patagonia. Ameghino, 1891. **Eocicada** (ē'ō-si-kā'dā), n. [NL., < Gr. ἡως, the dawn, + L. cicada, cicada.] A genus of the Cicadidæ or harvest-flies occurring in the Jurassic lithographic slates of Bavaria. **eodemotic** (ē'ō-dē-mot'ik), a. [Gr. ἡως, dawn, + demotic,] Pertaining to the dawn of demotic (civil as contrastedwith tribal) organization of society.

of society.

On comparing the method classes with the periods and culture-grades, it is found that archaic trephining was chiefly prehistoric and exclusively eodemotic, but that neoteric trephining persists, at least vestigially, among backward representatives of civilized peoples.

*Rep. Bur. Amer. Ethnol., 1894-96, p. 18.

echistoric (ē'ō-his-tor'ik), a. Pertaining to the dawn of history: as, echistoric times; echis-

conc man.

colation (ē-ō-lā'shon), n. [L. Eolus, the wind-god, + ation.] In geol., the process of earth-sculpture by wind; the scouring of exposed formations by wind-driven dust and sand, the

formations by wind-driven dust and sand, the chiseling of cliffs and modeling of beaches by wind-driven waves, and the modification of existing features by transportation and deposition of rock material by wind.

colith ($\hat{e}'\hat{\phi}$ -lith) n. [$\hat{G}r$. $\dot{\eta}\dot{\omega}_{\gamma}$, dawn, $+\lambda i\theta_{0\zeta}$, a stone.] A rudely chipped flint implement (or what appears to be such) regarded, from its workmanship, as older than the paleoliths. Eoliths are found in the oldest Quaternary deposits of Europe. Keane, Ethnology, p. 74. colithic (\hat{e} - \hat{o} -lith' ik). a. Pertaining to or characteristics.

Eoliths are found in the oldest quaternary deposits of Europe. Keane, Ethnology, p. 74. colithic (ē-ē-lith'ik), a. Pertaining to or characterized by the presence of coliths. colotropic (ē'ē-lē-trop'ik), a. [colotrop-y + -ic.] Characterized by colotropy; having a different structure in different directions: opdifferent structure in different directions: opposed to isotropic. An eolotropic medium shows different elastic properties according to the direction of the stress, and, when transparent, exhibits double refraction. eolotropy $(\bar{e} - \bar{\phi} - lot' r \bar{\phi} - pi)$, n. [Gr. $ai\delta \lambda o_{\bar{e}}$, changeable, shifting, $+ -r\rho\sigma n_{\bar{e}}$, $\langle \tau \rho \ell \pi e \nu, turn.$] Difference of structure in different directions. Doubly refracting crystals are eolotropic, and isotropic bodies, when twisted or subjected to longitudinal or shearing stress show a temporary eolotropy. ing stress, show a temporary colotropy.

Bodies . . . whose electro-magnetic properties merge ato those of isotropic non-conductors as the *colotropy* dispepears.

H. Hertz (trans.), Electric Waves, p. 203.

appears. H. Hertz (trans.), Electric Waves, p. 203.

6001, n. 3. The largest division of geologic time: used by J. D. Dana especially in dividing the archæan into astral and archæozoic eons.

6001al, 2001al (ē-ō'ni-al), a. Same as conian.

6001al, 2001al, 2001al, a. Same as conian.

6001al, a. Same as conian.

6

observer. The screen and trumpets are mounted on a short vertical mast free to be turned so that the edge of the screen can point in any direction. When the observer receives by trial the most intense vibration of the air, then both mouthpieces and the screen between them are pointed to the source of sound. Used in thick weather or at night

Eoplacophora (ĕ'ō-pla-kof'ō-rā), n. pl. [Gr. ἡάς, dawn, + πλάξ (πλάκ-), plate, + -φορος, ζ φερείν, bear.] A suborder of Eoplacophora φερευν, Dear. J A suborder of the polyplacophorous chitons. It is characterized by having the tegu-mentum coextensive with the articula-mentum, or the latter projecting in smooth insertion-plates, and by having posterior gills. One of its two families is Paleozoic, the other Tertiary and recent.

Eopsetta (ē-op-set'ä), n. [NL., Eopsetta (ē-op-set'ā), n. [NL., (Gr. ἡός, dawn, + ὑῆττα, aflat-fish.] A genus of flounders closely allied to Hippoglosso-ides, found on the coast of Cali-fornia. E. jordani, the single known species, is frequently sold as English sole. eorhyolite (ē-ō-rī'ō-līt), n. [co-+ rhyolite.] In petrog., a geo-logically ancient rhyolite. See *eo-.

a, collecting-cone for sound vibra-tions: b, screen to

closely allied to Hippoglossoides, found on the coast of California. E. jordani, the single
known species, is frequently
sold as English sole.

corhyolite (ē-ō-rī'ō-līt), n. [cologically ancient rhyolite. See
logically ancient rhyolite. See
logica

Eosebastes (ê' \bar{o} -sē-bas'tēz), n. [NL., \langle Gr. $\dot{\rho}\dot{\omega}$, dawn, + $\dot{S}cbastes$.] A subgenus of the genus Sebastodes, including the red rockfishes of the coast of California.

of the coast of California.

Bosin B, BN, or BW, a coal-tar color of the xanthene type, the sodium salt of dibrom-dinitro-fluorescein. It is applied like cosin, but gives bluer pinks. Also called cosin scarlet.—Bosin J. Same as *erythrosin.—Bosin B or BB, a coal-tar color of the xanthene type, the potassium salt of the ethyl ether of tetrabrom-fluorescein. It is insoluble in cold water, but readily soluble in alcohol, and for this reason it is often called spirit-soluble cosin. Its application is the same as that of cosin.—Bosin scarlet. Same as *cosin B, BN, or BW.—Eosin 10B. Same as phiczin.—Methyl cosin. Same as erythrin, 1.

eosinophil, a. II. n. A leucocyte which stains only with the acid dyes, such as eosin. Also called acidophil and oxyphil.

eosinophilia (e'o·sin-o·fil'i-ä), n. [eosin + Gr. -φίλια, < φίλειν, love.] The presence in the blood of eosinophil leucocytes in markedly increased numbers. R. C. Cabot, Clinical Exam. of the Blood, p. 116.

eosinophilic (ē'ō-sin-ō-fil'ik), a. Same as

eosinophilous (ē'ō-si-nof'i-lus), a. [eosinophil

+ -ous.] Staining readily and intensely in eosin; of or pertaining to an eosinophil.

eosium (ē-ō'si-um), n. [NL., irreg. < Gr. ήως, dawn (aurora), + -ium.] A name suggested by Berthelot for the recently discovered atmospheric gas krypton.

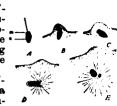
eosolate (\bar{e} - \bar{o}' $\bar{e}\bar{o}$ - \bar{l} at), n. [$eos(in) + -ol + -atc^1$.] A salt of sulpho-acids of the aliphatic creosote

A salt of sulpho-acids of the aliphatic creosote esters. Calcium cosolate is a gray, gritty powder, with slightly pungent ethereal odor and somewhat acrid leathery taste: used in diabetic affections. Silver cosolate is used in gonorrhea, and quinine cosolate in malaria. Botrochus (ö-ot'rō-kus), n. [NL., < Gr. //w/s, dawn, + Nl.. Trochus, a genus of gastropods.] A genus of platypodous Mollusca, characterized by turbinate, widely umbilicate shells which have flat whorls and conceave base, and which have flat whorls and concave base, and which sometimes carry agglutinated foreign particles. The genus was described from Silurian rocks.

epacme (ep-ak'mē), n. [Gr. $\dot{\epsilon}\pi i$, upon, $+ \dot{a}\kappa\mu\dot{\eta}$, acme.] A stage in the ancestral or phylogenetic history of a group of organisms, such as a family or a genus or a species, before the perfection of development, or acme, is reached. Jour. Roy. Micros. Soc., Oct., 1903, p. 616. [Rare.]

epagomenic (ep a-go-men'ik), a. Same as epagomenal.

epanorin (ep-a-nō'rin), n. [NL. epanora (see def.) + -in².] A yellow compound contained



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Epanorthidæ (ep-a-nôr'thi-dē), n. pl. [NL. (Ameghino, 1889), < Epanorthis, the type genus, + -idæ.] A family of mammals, comprising small species, known from fragmentary remains in the Santa Cruz formation (Miocene) of Patagonia, and placed with the diprotodont marsupials.

epanorthotic (ep'an-ôr-thot'ik), a. Of the nature of or characterized by epanorthosis; given to epanorthosis.

separchate (ep'ärkāt), n. [eparch + -ate³.] Same as eparchy. Schaff.

eparchial (ep-ärk'i-a), a. Of or pertaining to an eparchy. Schaff.

eparcuale (ep-är-kū-ā'lē), n.; pl. eparcualia (-li-ā). [Gr. ἐπί, upon, + L. arcus, arch.] The independent ossification from which the neural spine is developed; the supradorsal of Gadow.

eparitoi (e-par'i-toi), n. pl. [Gr. ἐπάριτοι or ἐπαρίται.] A picked body of hoplites created in Arcadia, in ancient Greece, after the foundation of Megalopolis in 370 B. C. They probably tion of Megalopolis in 370 B. C. They probably formed a considerable troop.

Epaxial actinophores. See *actinophore.

epeirogenetic, epeirogenic. Same as *epiro-

epembryonic (ep-em-bri-on'ik), a. [Gr. ἐπί, upon, + embryonic.] Of or pertaining to stages in the life of an organism later than the

stages in the life of an organism later than the embryonic stages. Hyatt, Biol. Lect., 1899, p. 132. [Rare.] **éperlan** (ā-pār-loh'), n. [F., OF. esperlanc, esperlan, esperlen, etc., < MLG. sperlink = E. sparling¹.] The European smelt, Osmerus eperlanus, found along the shores of northern Europe, and esteemed as a food-fish.

Europe, and esteemed as a food-fish.

eph-. See cpi-.

Ephes. Abbreviations of Ephesians.

Ephebaces (ef-ē-bā'sē-ē), n. pl. [NL., < Ephebe
+ -aces.] A family of gymnocarpous lichens
named from the genus Ephebe.

ephebarch (ef'ē-bārk), n. [Gr. ἐψήβαρχος, <
ἔφηβος, a boy, + ἀρχός, leader.] In Gr. antiq.,
an overseer of youth: a kind of magistrate
whose precise duties are not now known.

ephebastic (ef-ē-bas'tik), a. Of or pertaining
to ephebasty: having characters which belong to the mature growth-stage of a colony.

ephebasty (ef'ē-bas-ti), n. [Gr. ἔφηβος, mature,
+ ἀστν, city.] In paleon, the condition of
having attained mature growth, as a colony of
corals; the stage of mature growth.

having attained mature growth, as a colony of corals; the stage of mature growth. Ephebe² (e-fe⁷be), n. [NL. (Fries, 1825), \langle Gr. $\dot{\epsilon}\pi\dot{\iota}$, upon, $+\dot{\eta}\beta\eta$, youth, \rangle pubescence, in allusion to the pubescent thallus.] A genus of lichens having the thallus small and branched and composed chiefly of the algal element. The apothecia are small and round. The species are few and occur on wet rocks and earth. and earth.

Ephebeitic (e-fē-bē-it'ik), a. [ephebeitis + -ic.] Of or pertaining to ephebeitis. [Rare.]

Many of the phenomena are those of over-accentuation of processes normal at puberty, which I have for years called *ephebeitic*. G. S. Hall, Adolescence, I. 308.

ephebeitis (e-fē-bē-ī'tis), n. [NL., < Gr. ἐφηβεία, man's estate, + -itis (implying inflammation).] The fever of maturing youth.

When the youth takes the helm of his own being, he navigates a choppy sea. . . . He must strive, fight, and storm his way up, if he would break into the kingdom of man. . . . Many an impulse seeks expression, . . . which will never be heard of later. Its function is to stimulate the next higher power. . . . Never is it so true that nothing human is alien from each individual, as in this fever of ephebeitis.

G. S. Hall, Adolescence, II. 89.

ephebiate (e-fe'bi-āt), n. [Gr. $\dot{\epsilon}\phi\eta\beta\dot{\epsilon}ia$, man's vex in the estate, + -ate³.] In Gr. antiq., the period of of birds; adolescence in boys or the period of ephebic ephor, n. education.

431 in the lichen Lecanora epanora. It crystallizes ephebic, a. 2. Of or pertaining to the adult ephoric (e-for'ik), a. [ephor + -ic.] Same as in needles, melting at 131-132° C. stage of individual development or ontogeny, ephoral.

Epanorthidæ (ep-a-nôr'thi-dē), n. pl. [NL. as contrasted with the adolescent and the (Ameghino, 1889), $\langle Epanorthis$, the type genus, senile stages.

Ephraimite (ē'fra-im-īt), n. 1. In Old Test. hist., a member of the tribe of Ephraim, one

[The] ephebic stages give the differentials elaborated in the ontogeny at the acme of the evolution of the stock. Hyatt, Biol. Lect., 1899, 132.

The ephebic stages begin with the assumption of characters of lowest taxonomic rank (varietal).

Amer. Jour. Sci., Jan., 1903, p. 12.

ephebolic (ef-ē-bol'ik), a. [Gr. $\epsilon \phi \eta \beta \sigma \varsigma$, youth, + $\beta o \lambda \eta$, a throw, cast (ef. metabolic, etc.).] Same as *ephebic, 2.

enhectic (e-fek'tik), a. and n. [Gr. ἐφεκτικός, able to hold back, < ἐπέχειν, hold back, < ἐπί, to, unto, + ἐχειν, hold.] I. a. Holding the judgment in check.

II. n. One who suspends judgment.

All these men were called Pyrrhoneans from their master; and also doubters, and sceptics, and ephectics, or suspenders of their judgment, and investigators, from their principles. And their philosophy was called investigatory from their investigating or seeking the truth on all sides; and sceptical from their being always doubting (σκέπτομαι), and never finding; and ephectic, from the disposition which they encouraged after investigation, I mean the suspending of their judgment, epoche; and doubting, because they asserted that the dogmatic philosophers only doubted, and that they did the same.

Diogenes Lacritus (trans.), Lives of the Philosophers. [p. 405.

Here too the *Eparitoi* must have had their quarters; and it was their duty, in case of an hostile assault, to defend the southern circuit of the walls.

J. B. Bury, in Jour. Hellenic Studies, XVIII. 18.

in the leaves of Ephedra distachya and other species of Ephedra. It is mydriatic. ephedrismos (ef-ē-dris'mos), n. [Gr. ἐφεδρισμός, lit. 'sitting or riding upon (another's back),' $\langle εφεδρίζειν$, sit or ride upon another's back, $\langle εφεδρίζειν$, sitting upon, $\langle επί$, upon, + εδρα, a seat.] A Greek game in which a stone was set up at a given distance and balls were thrown at it. The player who falled to hit the stone was blindfolded and made to carry the victor to the stone.

This is also the case with the group illustrating the oft-repeated theme of the *Ephedrismos* or Encotyle.

M. B. Huish, Greek Terra-cotta Statuettes, p. 123.

ephelkustic (ef-el-kös'tik), α. [Gr. ἐφελκυστικός, attracted, drawn after, ζ ἐφέλκυσς, power of attraction, ζ ἐφέλκειν, draw after, attract, ζ ἐπί, upon, + ἔλκειν, draw.] In Gr. gram., attracted or appended: applied to the letter ν (n) when, for the sake of euphonious utterance, it is appended to a word ending in a vowel and followed by another beginning with

ephemeranthy (e-fem'e-ran-thi), n. [Gr. ἐφήμερος, of the day, fleeting, + ἀνθος, flower.] In
bot. the phenomenon of lasting only one day
or less: referring to flowers or, chiefly, their
corollas. F. E. Clements.

corollas. F. E. Clements.

Ephemerida (ef-ē-mer'i-dē), n. pl. [NL.] The Ephemeridæ considered as of ordinal rank.

ephemeromorphic (e-fem' e-rō-môr'fik), a. [Gr. ἐφήμερος, of the day, + μορφή, form.] Of or pertaining to the ephemeromorphs; of or pertaining to a form of organic life that is transitory and unstable—in particular, a form of life which, being definitely neither plant nor animal, has no permanent place in nature; ephemeromorphous. [Rare.]

ephemeromorphous. [Rare.] **Ephemeroptera** (e-fen-e-rop'tē-rē), n. pl. [NL., ζ Gr. ἐφήμερος, of the day, + πτερόν, wing.] In entom., the Ephemeridæ considered as an order.

ephete (ef'ēt), n. [Gr. ἐφέτης, a commander, a magistrate, (ἐφιέναι, send to, command, (ἐπί, genus of the family Epibulidæ. to, + ἰέναι, send.] In Gr. antiq., a criminal 1829. magistrate in Athens, especially one who tried Epibulidæ (ep-i-bū'li-dē), n. pl. cases of murder.

ephetic (e-fet'ik), a. [ephete + -ic.] Of or pertaining to the office of ephete.

ephippial, a. 2. Having or carrying a broodpouch: as, the ephippial females of certain crustaceans.

ephippic (e-fip'ik), a. [Gr. ἐφίππιον, a saddle-cloth (taken for 'saddle'), + -ic.] Saddle-shaped; specifically, having the ends of the vertebral centra concave in one plane and convex in the other, as are the cervical vertebræ of birds; heterocœlous. Wieland, 1899. sphor, n. 2. In modern Greece, an overseer

or superintendent of public works.

of the 12 tribes of Israel.—2. A nickname for pieces of 8 groschen struck at Berlin by Frederick the Great about 1759: so called from one

of the directors of the mint. ephydriad (e-fid'ri-ad), n. [Gr. $\dot{\epsilon}\phi\nu\delta\rho\mu\dot{a}c$ (-ad-), of the water (sc. $\nu\dot{\nu}\mu\phi\eta$, nymph), $\langle \dot{\epsilon}\pi\dot{\iota}$, upon, $+\dot{\nu}\delta\omega\rho$, water.] A water-nymph. L. Hunt. [Rare.

+ iδωρ, water.] A water-nymph. L. Hunt. [Rare.]

ephydrid (ef'i-drid), a. Of or belonging to the dipterous family Ephydridæ.
ephydrogamic (ef'i-drō-gam'ik), a. [Gr. ἐπί, upon, + iδωρ, water, + γάμος, marriage, + -ic.]
Hydrophilous, with the pollination occurring on the surface of the water.
ephyrula (ef-ir'ū-lā), n.; pl. ephyrulæ (-lō). [NL.] A young acraspedote medusa newly set free from the scyphistoma.
epial (ep'i-al), n. [F. épial (Geoffroy), < Gr. ἐπί, upon, + -al.] In ichth., the neural spine; the spine in which the neural arch ends. Starks, Synonymy of the Fish Skeleton, p. 524.
epialid, hepialid (ē-, hē-pi'a-lid), n. and a. I. n. A member of the family Epialidæ (Hepialidæ).

II. a. Of or belonging to the lepidopterous family Epialidæ (Hepialidæ).
epiandrium (ep-i-an'dri-um), n.; pl. epiandria (-ā). [NL., ⟨Gr. ἐπί, to, + ἀνήρ (ἀνδρ-), male.] In the Arachnida, the opening of the male genital organs.

genital organs.

genital organs.

Epibaterium (ep'i-bā-tē'ri-um), n. [NL. (Forster, 1776), in allusion to the climbing habit, ⟨Gr. ἐπιβατήριος, of or for elimbing, ⟨ ἐπιβαίνειν, go upon: see epibatus.] A genus of plants of the family Menispermaceæ. They are usually twining shrubs with axillary panicles of small flowers, but the leaves not peltate as in some related genera. There are about 30 species, widely distributed, chiefly in the tropical and subtropical regions of the Old World. One species, E. Carolinum (Cocculus Carolinus of Linneus), occurs in the southern United States, and another, E. diversifolium (Cocculus diversifolius of de Candolle), extends from Texas to Arizona and Mexico.

amihanthic (ep-i-ben'thik), a. [epibenthos +

epibenthic (ep-i-ben'thik), a. [epibenthos +
-ic.] Living upon or in the bottom of the continental shelf or littoral zone of the ocean; of
or pertaining to epibenthos. See *epibenthos, *benthos, *benthonic.

Everywhere, however, the *epibenthic* fauna is exposed to certain definite environmental conditions, as compared with a deeper fauna. *Encyc. Brit.*, XXXIII. 988.

epibenthos (ep-i-ben'thos), n. [NL., $\langle Gr. \, \epsilon \pi i, \, upon, + \beta \epsilon ubo, \, depth \, (see *benthos).$] The animals and plants that exist next to the benthos, or deep-sea fauna and flora—namely, those that live in the sea-bottom of the continental shelf or littoral zone, and those that are attached to its surface, and those that creep or run over its surface, considered collectively. See *benthos.

The fauna of this zone [continental shelf or littoral zone], generally very well characterized, may be distinguished as the epibenthos. Encyc. Brit., XXXIII 933.

cone, generally very well characterized, may be distinguished as the epibenthos. Encyc. Brit., XXXIII. 383. epiboulangerite (ep'i-bö-lan'jer-īt), n. [epi-+ boulangerite.] A lead sulphantimonate, Pb₃Sb₂S₃, occurring in dark bluish-gray to black masses. It is perhaps derived by alteration from boulangerite. epibranchial, n. 2. In ichth., one of the upper bones of the gill-arches. They lie just above the angle of each arch, between the superior pharyngeals (which they support) and the ceratobranchials below. epibranchials (ep'i-brang-ki-ā'le), n.; pl. epibranchialia (-li-ā). [NL., neut. of "epibranchialis, \langle Gr. $i\pi i$, upon, $+\beta \rho i \gamma x u$, gills: see branchial.] In ichth., the uppermost of the three pieces of the gill-branches (branchialia) in the gill-apparatus.

in the gill-apparatus.

Epibulia (ep-i-bū'li-ṣ), n. [NL.] The typical genus of the family Epibulidæ. Eschscholtz, 1829.

by the spiral ring protected by a corona of palpons, pneumatophore without periodic radial polygastric forms with a short, inflated, spirally convoluted stem, cormidia ordinate in a spiral ring protected by a corona of palpons, pneumatophore without perioystic radial pouches but with hypocystic villi. It includes the genera Epibulia and

epicheilous, a. See *epichilous.
epichilous (ep-i-ki'lus), a. [Gr. ἐπιχειλής, on or at the lips, ⟨ἐπί, upon, + χείλος, lip.] Of or pertaining to the lip or buccal segment: specifically applied to earthworms having the prostomium separated from the buccal segment than a complete groups. Also epicheilous ment by a complete groove. Also epicheilous. Proc. Zool. Soc. London, 1901, p. 199.

Epichloš (e-pik'lō-ō), n. [NL. (Tulasne, 1865), ⟨Gr. ἐπί, upon, + χλόη, grass, verdure.] A genus of parasitic fungi of the order Hypo-creales, having the perithecia embedded in a smooth, bright-colored, fleshy stroma which is at first covered with a conidial layer. The asci are cylindrical and contain 8 hyaline fillform spores. The species are mostly parasite on grasses, as the name indicates. E. typhina frequently attacks the cultivated grasses, Poa pratensis, blue grass, and Phleum pratense, timothy.

epichondrosis (ep'i-kon-drō'sis), n. [NL., ⟨Gr. ἐπί, upon, + χόνθρος, cartilage, + -osis.] A growth of cartilage upon the periosteum, such as that producing the antlers of a deer.

epichondrotic (ep'i-kon-drot'ik), a. [epichon-drosis (-ot-) +-ic.] Relating to a growth of cartilage upon the periosteum or perichondrotic growths.

Epichondrotic growths

Species of the order Hypo-creales, having upon a continental. (ep'i-kon-ti-nen'tal), a. [epi-t-continental.] In geol., resting upon a continental. (ep'i-kon-ti-nen'tal), a. [epi-t-continental.] In geol., resting upon a continental. (ep'i-kon-ti-nen'tal), a. [epi-t-continental.] In geol., resting upon a continental. (ep'i-kon-ti-nen'tal), a. [epi-t-continental.] In geol., resting upon a continental. (ep'i-kon-ti-nen'tal), a. [epi-t-continental.] In geol., resting upon a continental. (ep'i-kon-ti-nen'tal), a. [epi-t-continental.] In geol., resting upon a continental (ep'i-kon-ti-nen'tal), a. [epi-t-continental.] In geol., resting upon a continental. (ep'i-kon-ti-nen'tal), a. [epi-t-continental.] In geol., resting upon a continental (ep'i-kon-ti-nen'tal), a. [epi-t-continental.] In geol., resting upon a continental (ep'i-kon-ti-nen'tal), a. [epi-t-continental.] In geol., resting upon a continental (ep'i-kon-ti-nen'tal), a. [epi-t-continental.] In geol., la continental. (ep'i-kon-ti-nen'tal), a. [epi-t-continental.] In geol., resting upon a continental (ep'i-kon-tal-pin and salisbury, Geol., I. 11.

epichondrosis (ep'i-kon-drō'sis), n. [NL., ⟨ epi-t-kon'tal-pin a

Epichondrotic growths preponderate, with multiple and broadened bases.

Proc. Zool. Soc. London, [1902, I. 218.

epichordal, a. 2.

Noting a type of vertebree, found in some

Batrachia, in which the cartilaginous ele-ments from which the centra of the vertebrae are developed are sup-pressed on the ventral side of the notochord, as in Pipa, Bombina-tor, and Alytes.

The epichordal feature is not necessarily indicative of relationship.

H. Gadow, Amphibia and [Reptiles, p. 20.

epichorion (ep-i-kō'rion), n.; pl. epichoria
(-8). [Gr. ἐπἰ, upon,
+ χόριον, the membrane that incloses
the fetus.] In embryol., that portion of the uterine mucosa which folds over and incloses the egg in mammals.

One-half natural size.

a, cavity of uterus: b, decidua
vera: c, dorsal wall of uterus: d,
vagina: e, os uteri: f, cervix
uteri: g, villi projecting from
wall of blastodermic vesicle: h,
wall of blastodermic vesicle: f,
uterine glands: f, cavity of
ovum or blastodermic vesicle: f,
decidua serotina: f, epichorion: m, ventral wall of uterus.
(From Marshall's "Vertebrate
Embryology.") freckles, etc.

/, epichorion.
A longitudinal section of the human uterus with an ovum in situe estimated as about the thirteenth day. (After Kollman.) One-half natural size.

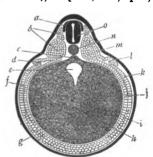
freckles, etc. epichysis (ep-i-ki'sis), n. [NL., $\langle Gr. i\pi' \chi v \sigma \iota c_i \rangle$, a pouring in, also a pitcher, $\langle i\pi\iota \chi e i v \rangle$, pour in, $\langle i\pi\iota i \rangle$, on, in, $+ \chi e i v$, pour.] In Gr. archæol., a pitcher for wine, etc.; a beaker. epiclastic (ep-i-klas'tik), a. [Gr. $i\pi\iota i \rangle$, upon, $+ \kappa \lambda a \sigma i c_i \rangle$ broken, + -ic.] In petrog., noting detrital, surficial rocks made up of fragments of preexisting rocks. Teall, 1887. epiclavicle (ep-i-klav'i-kl), n. 1. In ichth., same as supraclavicle (which see).—2. A bone of the shoulder-girdle of stegocephalian amphibians extending dorsally from the clavicle:

phibians extending dorsally from the clavicle; the clithrum.

epicnemial (ep-ik-nē'mi-al), a. [epicnemis + epicnemial (ep-ik-ne'mi-al), a. [epicnemis + -all.] Relating to the superior and anterior portion of the tibia.—Epicnemial process, the long, upwardly directed process on the superior part of the tibia, particularly pronounced in grebes and loons. epicnemis (ep-ik-ne'mis), n. [NL., ⟨έπί, upon, + κνημη, tibia.] A small sclerite sometimes

found at the base of the tibia in some Arachnida, which does not appear to have separate mo-

tion. epicœloma (ep-i-sē-lō'mā), n. [Gr. ἐπί, upon, Ͱ κοίλωμα (τ-), ε hollow, cavity: cæloma.] The portion of the coloma, or true body-cavitv. nearest the notochord the vertebrate embryo. Also epicælom.



m, epiceloma.

Transverse section across the middle of the length of a frog embryo. Magnified, a, dorsal root of spinal nerve; b, mesoblastic somite; c, subnotochordal rod; d, archinephric duct; e, intestinal region of mesenteron; f, splanchnocole; g, epibast; h, yolk-cells; f, mesoblast; f, splanchnopleuric layer of mesoblast; f, schanchnopleuric layer of mesoblast; d, archinephric duct; m, myocole or epicceloma; n, notochord; e, spinal cord. (From Marshall's "Vertebrate Embryology.")

epicrystalline (ep-i-kris'ta-lin), a. [epi-+crystalline.] In geol., noting a crystalline structure or character which is superimposed (as often in regional metamorphism) upon an older sedimentary one. Geikie, Text-book of Geol., p. 802.

epicurrent (ep'i-kur-ent), n. [Gr. ėni, upon, + L. currens, current.] A stream or current at the surface of the sea, such as the Gulf Stream. Haeckel (trans.), Planktonic Studies,

Stream. Haeckel (trans.), Planktonic Studies, p. 625.

epicycle, n. 2. (b) In mod. astron., sometimes used for the geocentric path of a planet, or its path relative to the earth regarded as fixed.

epicyclic, a. II. n. A curve which is the path of a point P describing uniformly a circular orbit relatively to a point Q which itself has a uniform circular motion about O. If the angular velocities have the same sign, the epicyclic is direct; if opposite, retrograde.

epidemicity (ep-i-dē-mis'i-ti), n. [epidemic + -ity.] The condition of being epidemic. Encyc. Brit., XXVII. 468.

epidemiographist (ep-i-dē-mi-og'ra-fist), n. A writer on the subject of epidemics. N. E. D. epidendral (ep-i-den'dral), a. [Gr. $\ell\pi\ell$, upon, + $d\ell\nu d\rho o\nu$, tree, + $-al^1$.] Growing on trees: applied chiefly to epiphytes: as, an epidendral

epidendric (ep-i-den'drik), a. Same as *epidendral.

epiderma (ep-i-der'mä), n.; pl. epidermata (-ma-tä). [NL., ζ Gr. ἐπί, upon, + δέρμα, skin.] A cutaneous excrescence, such as a

epidermatic (ep'i-der-mat'ik), a. Same as epi-

epidermatous (ep-i-der'ma-tus), a. Pertaining to or affecting the epidermis.

Epidermic globes. Same as epithelial pearls (which see, under pearl).—Epidermic medication. See epidermic method, under epidermic.

epidermin (ep-i-der'min), n. [epidermis + -in2.] An emollient consisting of equal parts of white wax, acacia, glycerin, and water, employed as a vehicle for exhibiting skin-medication.

epidermoid, a. II. n. A tumor composed of cells resembling those of, or derived from, the

epidermoidal (ep'i-der-moi'dal), a. Resembling the epidermis.

epidermolysis (ep'i-der-mol'i-sis), n. [Gr. $\dot{\epsilon}m\dot{\epsilon}c\rho\mu(ic)$, epidermis, $+\lambda\dot{\epsilon}uc$, loosening.] A loosening of the epidermis from the next underlying layer of the skin.

epidermoma (ep'i-der-mō'mā), n.; pl. epidermomata (-ma-tā). [Gr. ἐπιδερμ(ἰς), epidermis, + -oma.] A cutaneous excrescence or outgrowth, such as a wart.

epidermosis (ep'i-der-mō'sis), n.; pl. epider-moses (-sēs). [Gr. ἐπιδερμ(ίς), epidermis, +-osis.] A disease of the skin which affects chiefly the superficial layer, or epidermis.

epidiabase (ep-i-di'a-bas), n. [epi-+diabase.] In petrog., a diabase the augite in which has been changed to amphibole, uralite, or hornblende: applied to rocks previously called epidiorite. Issel, 1892.

epidiorite. Issel, 1892.
epidiascope (ep-i-dī'a-skōp), n. [Gr. ἐπί, upon, + διά, through, + σκοπεῖν, view.] An instrument for the optical projection of the images of opaque bodies on a screen by means of reflected or transmitted light. It consists of a lantern-box containing a powerful arc-light, a water-tank for removing heat-rays, and a series of mirrors beneath and above the objective. Nature, Feb. 19, 1903, p. 376. See cut at projecting-klantern.

epididymectomy (ep -i-did-i-mek'tō-mi), n. [NL. epididymis + Gr. ἐκτομή, excision.] Excision of the epididymis. Jour. Trop. Med.,

Jan. 15, 1903, p. 25. epididymite (ep-i-did'i-mit), n. [Gr. $i\pi i$, upon, + E. (eu)didymite.] A silicate of beryllium

and sodium, HNaBeSi3O8, occurring in coland sodium, HNaBeSigUg, occurring in colorless twinned orthorhombic crystals of tabular habit: found in southern Greenland. It has the same composition as eudidymite, but differs from it in crystallization.

epidotiferous (ep'i-dō-tif'e-rus), a. [cpidote + L. ferre, bear.] Containing epidote; epidote;

epidotization (ep'i-dō-tī-zā'shon), n. [epidote + -ize + -ation.] In petrog., that form of metamorphism which is accompanied by the formation of epidote, usually at the expense of the ferromagnesian minerals, but also from

of the ferromagnesian minerals, but also from the feldspars in some instances. epidural (epi-dū'ral), a. [epi-dural (mater) + all.] Situated upon the dura mater: as, the epidural space, an interval between the periosteum which lines the spinal canal and the dura mater of the spinal cord.

epifocal (ep-i-fō'kal), a. [epi-+ focal.] Lying about the focus; arranged with reference to the focus; near the focus; specifically, above the seismic center or focus of an earthquake.

When this material is volcanic it is almost invariably magnetic, and we perceive in its sudden rearrangement causes which should produce magnetic effects within an epifocal district.

Encyc. Brit., XXVII. 608.

epifolliculitis (ep'i-fo-lik-ū-lī'tis), π. [NL., ζ Gr. ἐπί, upon, + NL. folliculus, follicle, + -itis.] Inflammation of the hair-follicles of

the scalp. epigamic (ep-i-gam'ik), a. [Gr. $\xi\pi i$, upon, + $\gamma \alpha \mu o c$, marriage.] Relating to the mating of yauos, marriage.] Relating to the mating of animals: as, epigamic colors, those worn by males during the mating period and supposed to attract the females. E. B. Poulton, Colors of Animals, p. 338.—Epigamic character, any characteristic of color, markings, structure, or conduct which serves to attract or excite the other sex during the courtahip of animals, such as the song of birds, the drumming of the grouse, the plumage of the peacock, etc.—Epigamic coloring. See *coloring.

Epigastric angle, fold, fossa, zone. See *angle3, *fold1, *fossa, and abdominal regions, under abdominal.

enigenetic (ep!i-ië-net/ik), a. [migenesis, af-

epigenetic (ep'i-jē-net'ik), a. [epigenesis, after genetic.] 1. Of, pertaining to, or produced by epigenesis.

He criticises the ideas of progress and of the unity of history, and contends for an epigenetic as distinguished from an evolutionary view of the origins of civilisation.

Mind, XII. 629.

2. In phys. geog., a term applied to those rivers whose courses have been determined by the slope of a once overlying series of strata, now removed by erosion so as to disclose rock-structures of another arrangement; superposed; inherited.

epigenist (e-pij'e-nist), n. [epigen(y) + -ist.]
One who accepts the doctrine of epigenesis as opposed to evolution in the sense of preforma-

opposed to evolution in the sense of preformation: same as epigenesist.

epigenite (e-pij'e-nīt), n. [Gr. ἐπιγενής, growing after, +-ite².] A sulpharsenate of copper and iron occurring in steel-gray prismatic crystals: found near Wittichen, Baden.

epiglottitis (ep'i-glo-tī'tis), n. [NL., < epiglottis +-itis.] Inflammation of the epiglottis.

epignath (ep'ig-nath), n. [Gr. ἐπί, upon, + γνάθος, jaw.] In Isopoda, an epipodite usually consisting of one article affixed to the external margin of the protopodite or basal part of a maxilliped.

epigonal (e-pig'ō-nal), a. Characteristic of or

maximped.

epigonal (e-pig'ō-nal), a. Characteristic of or pertaining to an epigone. See epigone¹.

epigraf, n. and v. t. A simplified spelling of epigraph.

epigraph.

epigraph.

epigramme (ep-i-gram'), n. [F. épigramme: see epigram.] A small fillet of game, poultry, lamb, or other delicate meat prepared and served as an entrée.

epiguanine (ep-i-gwä'nin), n. One of the xanthin bases, CeH₇N₅O.

epigyne (ep'i-jin), n. [Gr. ἐπί, to, + γινή, female.] The female aperture or vulva in arachnids. Proc. Zool. Soc. London, 1900, p. 387.

epigynum (e-pij'i-num), n.; pl. epigyna (-nä).

[Ni., < Gr. ἐπί, to, + γινή, female.] In the Arachnida, the opening of the female genital organs; the epigyne. Trans. Linnean Soc. London, 2d ser., Zool., 1892, p. 297.

epigyny (e-pij'i-ni), n. [epigyn-ous + -y³.] In bot., the character of being epigynous; the growth of corolla and stamens on the top of the ovary.

Apart from this botanists are generally agreed that the

Apart from this, botanists are generally agreed that the concrescence of parts of the flower-whoris . . . is an indication of advance, as is also the concrescence that gives the condition of epigyny. Encyc. Briz., XXV. 440.



epilatory (ë-pil'a-tō-ri), n. [L. e, out, + pilus, hair, after depilatory.] Same as depilatory. epilemma (ep-i-lem's), n.; pl. epilemmata (-mats). [Gr. $\varepsilon\pi i$, upon, + $\lambda \varepsilon\mu\mu a$, scale.] The

fine, transparent sheath of a terminal nervefibril.

epilemmal (ep-i-lem'al), a. Of or pertaining to the epilemma. Jour. Exper. Med., March 25, 1901, p. 506.

epilepsy, n.—Cursive epilepsy, epilepsy in which the prodromes take the form of an impulse to run.

— Diurnal epilepsy, a form of epilepsy in which the attacks occur only or chiefly during the daytime.—Focal epilepsy. Same as cortical epilepsy.—Laryngeal epilepsy. Same as laryngeal *vertigo.—Nocturnal epilepsy, a form of epilepsy in which the paroxysms occur only at night, and usually during sleep.—Psychic epilepsy, a form of epilepsy attended with mental derangement.

ment.

Repileptic cry. See *cry.—Epileptic status a morbid condition marked by almost continuous epileptic seizures, the intervals between which are passed in a state of coma

and fever.

epileptoid, a. II. n. A person who is prone to have epileptic seizures.

epilobe, n. 2. In bot., a plant of the genus Epilobium. Also applied to Chamænerion angustifolium, the great willow-herb, long included in Epilobium.

epilog, n., and v. i. A simplified spelling of epilogy.

epilogismt, n. 2. Something added; an epi-

epilogist (e-pil'ō-jist), n. [epilogue + -ist.]
The writer or the speaker of an epilogue.

The epilogist says that missing sections of the tale will be lost unless he finds time to treat them; this is a confession that the pretended book of the Grail (assumed according to the usual medieval fiction) has no existence outside of his inner consciousness.

Jour. Amer. Folk-lore, Jan.-March, 1902, p. 56.

epimagmatic (ep-i-mag-mat'ik), a. [epi-+magmatic.] In petrog., noting those minerals in igneous rocks which have been formed since the solidification of the magma: not pyrogenetic. Such minerals are often called sec-

genetic. Such minerals are often called secondary minerals. See secondary, 4. epimere (ep'i-mēr), n. [Gr. $\varepsilon\pi i$, upon, + $\mu \epsilon \rho \sigma$, part, portion.] 1. In embryol., a portion of the mesodermal wall of the epicceloma

in the vertebrate embryo. See cut under *epicœloma.—2. In zoöl., same as epimeron.
epimorphosis (ep'i-môr-fô'sis), n. [Gr. ἐπί, upon, + μόρφωσις, forming, < μορφοῦν, v., form, < μορφή, form.] The regeneration of a piece or fragment of an organism by cell-proliferation at the cut or injured surfaces: a more eration at the cut or injured surfaces: a more common form of regeneration, distinguished from *morphallaxis.

epimyslum (ep-i-mi'si-um), n. [NL., erro-neously formed from Gr. $\dot{\epsilon}\pi\dot{i}$, upon, $+\mu\dot{\nu}\varsigma$ ($\mu\nu$ -), muscle.] The connective-tissue sheath of a

epimyth (ep'i-mith), n. [NL. epimythium, ζ Gr. ἐπιμίθων, ζ ἐπί, upon, + μίθος, fable. Com-pare affabulation.] The moral appended to a

pare affabulation.] The moral appended to a fable or story.

epimythium (ep-i-mith'i-um), n.; pl. epimythia (-\frac{1}{2}). [NL.] Same as *epimyth.

Such are the repetition in cursive of a fable . . . and of

an epimythium.

D. C. Hesseling, in Jour. Hellenic Studies, XIII. 296.

epinephridial (ep'i-nef-rid'i-al), a. [Gr. $\ell\pi i$, upon, + NL. nephridium + $-al^{1}$.] Of or pertaining to the spaces above the renal organ or nephridium. See the quotation under *perigonadial

genatura:
epinephrin (ep-i-nef'rin), n. [Gr. ἐπί, upon,
+ νεφρός, kidney, + -in².] 1. A term introduced by J. J. Abel to designate the active
blood-pressure raising principle of the adrenal
glands. See also *adrenalin.—2. The proprietary name of a preparation made from the suprarenal capsule, which possesses marked

suprarenal capsule, which possesses marked hemostatic properties.

epineural, a. 2. Lying upon or over a nerve.

Epineural canal, in some echinoderms, one c. the canals which run between the nervous system and the adjacent body epithelium.

Epinnula (e-pin'ū-lä), n. [NL., < L.ē-, out, + pinnula, dim. of pinna, fin.] A genus of seom-S.—28

epihypocycloidal
epihypocycloidal (ep'i-hī-pō-sī-kloi'dal), a.
[epi- + hypocycloidal.] In math., having a generating rolling curve of such a form that the portion of the profile without the primitive circle is epicycloidal, while that within it is hypocycloidal.
epilaryngeal (ep'i-lā-rin'jō-al), a. [Gr. ἐπί, upon, + νώτος, back.] Same as metanotum. Biol. Bulletin, May, 1904, p. 258.
epilaryngeal (ep'i-lā-rin'jō-al), a. [Gr. ἐπί, upon. + ἀρυγξ, larynx, + -e-al.] Above the (ἀνυχ-), nail.] The membrane which covers the nails of the fetus.

amoutleon (ep-i-op'ti-kon), n.; pl. epioptica

the nails of the fetus.

epiopticon (ep-i-op'ti-kon), n.; pl. epioptica (-kg). [NL., < Gr. ἐπί, upon, + ὁπτικός, optic.]

The second of the three ganglionic swellings in each of the optic ganglia of an insect. A. S. Packard, Text-book of Entom., pp. 253, 254.

epiostracum (ep-i-os'tra-kum), n. [NL., < Gr. ἐπί, upon, + ὁστρακον, shell.] The outer layer in the integument of Acarina. It consists of a single layer of cells, rounded or conical on the outer side and flat on the inner side. These cells form the papilles with which the soft parts of the body are often coated.

epiotic, n. 2. One of the outer or lateral pair of the supratemporal bones in the cranial roof of the supratemporal bones in the cranial roof of the stegocephalian Amphibia, regarded as bones of dermal origin.—3. In ichth., a lateral, posterior paired bone of the cranium, usually forming a blunt projection. It lies at the side of the supraccipital behind the parietal, and articulates below with the exoccipital. The upper limb of the post-temporal is attached to it.

poral is attached to it.

epiparasite (ep-i-par'a-sīt), n. [Gr. ἐπί, upon, + παράσιτος, parasite.] Same as ectoparasite.

epipastic (ep-i-pas'tik), a. and n. [F. ἐριραstique, ⟨ Gr. ἐπίπαστος, sprinkled over, ⟨ ἐπίπάσσειν, sprinkle over, ⟨ ἐπί, upon, + πάσσειν,
sprinkle.] I. a. Sprinkled over, as silk or
paper with cantharides or other blistering
agents, or with a powder.

II. n. A substance which causes a blister
when applied to the skin; blister-plaster; a
vesicatory.

vesicatory.

Ruinh. An abbreviation of Epiphany.

An abbreviation of Epiphany.

1. pl. epiph vesicatory. **Epiph.** An abbreviation of *Epiphany*. **epiphallus** (ep-i-fal'us), n.; pl. *epiphalli* (-i).

[NL., $\langle Gr. \epsilon \pi i, upon, + \phi a \lambda \lambda \delta c, phallus.] In some pulmonate gastropods, an enlargement of the vas deferens, which does not enter the penis directly, but is continued beyond the paper of that organ and frequently bears a long which due the flagellum.$ *Proc. Zool. Soc.*

blind duct, the flagellum. Proc. Zool. Soc. London, 1897, p. 447.

epiphenomenal (ep'i-fē-nom'e-nal), a. [epi-phenomenon + -all.] Pertaining to or of the

nature of an epiphenomenon.

The spiritual becomes the "epiphenomenal, a merely icidental phosphorescence, so to say, that regularly companies physical processes of a certain type and com-lexity. Brit., XXXI. 88.

From the standpoint of naturalism a world described in such terms is epiphenomenal.

J. Ward, Naturalism and Agnosticism, ii.

epiphenomenalism (ep'i-fē-nom'e-nal-izm), n. [epiphenomenal + -ism.] The doctrine that consciousness, or mind, is an added or secondary phenomenon (epiphenomenon); the doc-trine that consciousness is the incidental result of the phenomena of neural structure and of neural activity according to the laws of meneural activity according to the laws of mechanics. According to this view, freedom and responsibility are illusions or a routine, having no more real relation to conduct than has the sound of the bell to its toiling or the whistle of the engine to its movements. The aim of science is held to be the objective study of a material universe, into which our minds must not be thrust as part of the problem, which is complete and intelligible only when considered objectively and as separated from our minds by a chasm that is intellectually impassable. Sensible knowledge is held to consist of phenomena or appearances which are produced in our minds by a natural world that in itself is, and always must be, utterly unknown and unknowable; and as the human brain is part of the phenomenal world of appearances in our minds, critical epiphenomenalism resolves itself into the assertion that our minds are the by-products of appearances in our minds, produced by we know not what.

How does epiphenomenalism arise? By immediate inference from the fundamental thesis of parallelism, the denial of causal relations between mental and physical. If the volition is not the cause of its movement, then consciousness is inefficient. If the physical world is a closed circle, then the mind is a mere epiphenomenon on the roof of things but looking helplessly down. Everything goes on exactly as if it were not present. It is therefore, so to speak, a potential absentee. If it were an actual absentee, the world would be no different.

C. A. Strong, Why the Mind has a Body, p. 80.

epiphenomenalist (ep'i-fē-nom'e-nal-ist), n. [epiphenomenal + -ist.] One who holds consciousness to be an epiphenomenon. See *epiphenomenalism. C. A. Strong, Why the

epiphenomenatism. C. A. Strong, why the Mind has a Body, p. 83.

epiphenomenalistic (ep'i-fe-nom'e-nal-is'tik), a. Partaking of the character of epiphenomenalism. C. A. Strong, Why the Mind has a Body, p. 350.

broid fishes of the family Gempylidæ: found epiphenomenon, n. 2. A phenomenon which is secondary to another or others; a phenome-epinotum (ep-i-nō'tum), n.; pl. epinota (-tặ). non which is a sort of by-product in no wise affecting other phenomena. The term is used especially to describe consciousness as conceived by Dr. Shadworth Hodgson, who thinks that not only is consciousness without effect upon the brain, but that one idea is without effect upon other ideas.

idea is without effect upon other ideas.

The human soul Herbart conceived to be such a real, its various presentations and mental processes being but passing epiphenomena of its simple underlying existence. These epiphenomena he attributed to the interaction of the reals.

H. Nichols, Cosmology, § 121.

To say that consciousness is an aura or epiphenomenon of the organism, which itself is but a mechanical automaton, is to shirk the difficulty, not to face it.

J. Ward, Naturalism and Agnosticism, II. 87.

Specifically—3. In psychol. theory, a collateral product of a given set of conditions; a phenomenon which accompanies the effect of a given cause, but which itself has no place in the chain of cause and effect.

They [psychical changes] are called collateral products or "epiphenomena" to obviate the charge of materialism, and to conform to the interpretation of the conservation of energy that we have just discussed.

Encyc. Brit., XXXII. 68

4. In neurol., a supererogatory phenomenon; something added after the plan of the work is complete.

The cortex cerebri [is] the most important portion of the brain from a psychical point of view, though from the physiological standpoint it may seem rather an epiphenomenon or afterthought. Buck, Med. Handbook, II. 278.

Epiphenomenon hypothesis. See \neq epiphenomenalism. epiphonematical (ep'i-fō-nē-mat'i-kal), a. [epiphonema(t-) + -ic + -all.] Of the nature of an eninhonema.

epiphylly (ep'i-fil-i), n. [Gr. $\dot{\epsilon}\pi\dot{l}$, upon, $+\phi\dot{l}\lambda\lambda\partial\nu$, a leaf, $+-y^3$.] The occurrence of epiphytes upon leaves. Kearney, Contrib. National Herb., V. 436.

Herb., V. 436. epiphyma (ep-i-fi'ma), n.; pl. epiphymata (-na-tā). [NL., \langle Gr. $\dot{\epsilon}\pi\dot{i}$, upon, $+\dot{\phi}\bar{\nu}\mu a$, a growth.] Any disease of the skin. epiphyseolysis (ep-i-fi-sē-ol'i-sis), n. [NL., \langle Gr. $\dot{\epsilon}\pi\dot{i}\phi\nu a\zeta$, epiphysis, $+\dot{\lambda}\dot{\nu}a\zeta$, dissolution.] Separation of an epiphysis. epiphysitis (ep'i-fi-sī'tis), n. [NL., \langle epiphysis $+\dot{\nu}$ + $+\dot{\nu}$ is:] Inflammation of an epiphysis. eniphytes a. 1. Schimper classifies eniphytes as

epiphysitis (ep'i-fi-sī'tis), n. [NL., ⟨epiphysis + -itis.] Inflammation of an epiphysis. sepiphyte, n., 1. Schimper classifies epiphytes as follows: (a) proto-epiphytes, comprising the little-homogeneous species which are compelled to obtain nourishment from the surface of their support and directly from atmospheric sources; (b) hemi-epiphytes, which germinate and pass through their earliest stage on trees, but which later become connected with the ground by their roots; (c) nest-epiphytes, consisting of species which by appropriate devices collect large quantities of humus and water; (d) tank-epiphytes, in which the root system is developed only as an anchoring apparatus or is entirely suppressed, so that the whole process of nutrition is carried on by the activity of the leaves.
epiphytism (ep'i-fi-tizm), n. [epiphyte + -ism.]
The character or habit of being epiphytic.
epiphytotic (ep'i-fi-tot'ik), a. [Gr. eπi, upon, + φυτόν, plant, + -otic (as in epizootic).] In bot, noting an epidemic of a plant-disease.
epiphytous (ep'i-fi'tus), a. Same as epiphytic.
epiplankton (ep-i-plangk'ton), n. [NL., ⟨Gr. eπi, upon, + NL. plankton.] The animals and plants which float or swim at the surface or above the hundred-fathom line, considered collectively and in contrast with the dwellers in deeper water; the pelagic plankton (which see, under *nlankton).

in deeper water; the pelagic plankton (which see, under *plankton).

The epiplankton of the open sea is described as oceanie; it consists almost entirely of holoplanktonic forms and their larve.

Encyc. Brit., XXXIII. 936.

Limnitic epiplankton, the animals and plants which float or swim at or near the surface of fresh water.—
Nertic epiplankton, the floating or swimming animals and plants of the waters near the coast.— Oceanic epiplankton, the floating and swimming organisms of the high sea.

planktonic (ep'i-plangk-ton'ik), a. [epi-plankton + -ic.] Of or pertaining to epi-plankton; floating or swimming in the water at the surface or above the hundred-fathom line; pelagic. See *planktonic.

epiplasmic (ep-i-plaz'mik), a. [epiplasm + -ic.] Of or pertaining to the epiplasm.

epiplastral (ep-i-plas'tral), a. and n. [epiplastron + -all.] I. a. Of or pertaining to the epiplastron.

II. n. One of the pair of bones which lie behind the entoplastron bone of the plastron of the *Chelonia*, or turtles. Together these bones form the epiplastron. See the cuts under

Chelonia and plastron. See the cuts under Chelonia and plastron.

epipleur (ep'i-plör), n. [Gr. $\dot{\epsilon}\pi\dot{\iota}$, upon, + $\pi\lambda\epsilon\nu\rho\dot{\iota}$, the side.] A cavity in Amphioxus, surrounding the pharynx at the sides and below, into which the respiratory stream of

[Gr. επίπλου, omentum, + εντερον, intestine, + κήλη, a tumor.] Hernia of a loop of intestine and portions of the omentum.

epiplopexy (e-pip'lō-pek-si), n. [Gr. ἐπίπλοον, omentum, + πηξις, fastening.] Attachment, by a surgical operation, of the omentum to the anterior abdominal wall in order to cause anastomosis between the blood-vessels of the

two parts.

epipod (ep'i-pod), n. Same as epipodite.

epipodal (e-pip'ō-dal), a. Same as epipodial.

epipodium, n. 2. In some Echinoidea, a raised ring surrounding each pair of pores on each

ring surrounding each pair of pores on each primary ambulacral plate.

epipolize (e-pip'ô-liz), v. t.; pret. and pp. epipolized, ppr. epipolizing. [Gr. ἐπιπολή, a surface, + -ize.] To render fluorescent. See epipolized.

epipolized.
epipterygoid (ep-ip-ter'i-goid), a. and n. I.
a. Situated upon or above the pterygoid bone.
—Epipterygoid bone, a rod-shaped bone articulating with the pterygoid bone.

II. n. 1. In herpet., a cartilage-bone, developed in some reptiles, which abuts on the superior face of the pterygoid.—2. In ornith., a hook-like process developed on the inner edge of the pterygoid near its articulation

edge of the pterygoid near its articulation with the quadrate.

epipygium (ep-i-pij'i-um), n.; pl. epipygia (-ä).
[Gr. ἐπί, upon, + πυγή, the buttocks.] The last dorsal segment of an insect's abdomen:

last dorsal segment of an insect's abdomen: applied especially to the aculeate Hymenoptera. Proc. Zool. Soc. London, 1901, p. 236.

epirhizous (ep-i-ri'zus), a. [Gr. ἐπί, upon, + ρίζα, root.] Growing on roots.

epirogenic (e-pi-rō-jen'ik), a. [Gr. ἡπειρος, a continent, + -γενης, -producing.] Continent-making; in geol., pertaining to movements by which wide changes of level have occurred without special orogenic results; noting conwhich wide changes of level have occurred without special orogenic results; noting continent-making movements or the up-and-down movements or oscillations of continental areas. G. K. Gilbert, 1890.—Bpirogenic physiography, land-features controlled and limited largely by epirogenic disturbances which give rise to cycles of change: a term proposed by W. H. Hobbs, together with the contrasted term orogenic physiography, which emphasizes the importance of earlier structural features and orogenic disturbances in controlling surface-contour. Science, Oct. 23, 1903, pp. 538, 559.

epirogeny (ē-pī-roj'e-ni), n. [Also epeirogeny; ζ Gr. ήπειρος, the mainland, a continent, +-γενεια, ζ-γενης, produced.] The production of a continent; the appearance of a continent due to continental oscillation of level. See *diastro-phism. Geikie, Text-book of Geol., pp. 392, 1374.

epirotulian (ep'i-rō-tū'li-an), a. [Gr. ɛ̃πi, upon, + NL. rotula, patella, + -ian.] Situated or directed upon the patella or knee-cap: as, an epirotulian blow. Buck, Med. Handbook, III. 846.

846.
epirrhysa (ep-i-rī'sā), n. pl. [NL., irreg. pl. based on Gr. ἐπίρρυσις, a flowing in, 〈 ἐπιρρείν, flow in or upon, 〈 ἐπι, upon, + ρείν, flow.] In the sponges, the canals which carry water from the exterior of the body inward to the flagellate chambers; the inhalant canals: contrasted with aporrhysa, or exhalant canals, which are the conduits carrying water from the flagellate chambers inward to the paragastral cavity.

gastral cavity.

Epis., Episc. Abbreviations of Episcopal. episarcine (ep.i-sār'sin), n. [Gr. $\varepsilon m i$, upon, + $\sigma a \rho \xi$ ($\sigma a \rho \kappa$ -), flesh, + - $i n e^2$.] A basic substance, $C_4 H_6 ON_3(1)$, possibly belonging to the pyrim-

called some of the process emphasized by Boss under the name of nectenia, a reversion of a phylum to a modified form of the process emphasized by Boss under the name of nectenia, a reversion of a phylum to a modified embryonic condition.

Science, March 6, 1903, p. 381.

Epistemological parallelism. See *parallelism.

episclerotitis (ep-is-klê-rộ-ti'tis), n. [NL., ζ Gr. ἐπί, upon, + sclerot-ic + -itis.] Same as eniscleritis.

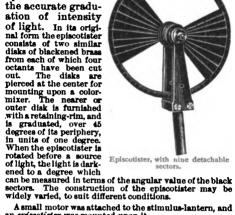
water passes through the gill-openings and from which it escapes through the atrial pore. epipleural, n. 2. Same as epipleura, 1. epiploenterocele (e-pip'[$\bar{\phi}$ -en'te-r $\bar{\phi}$ -sēl), n. [Gr. $\ell \pi i \pi \lambda o o v$, omentum, $\ell \nu \tau e \rho o v$, intestine, $\ell \kappa \eta \lambda \eta$, a tumor.] Hernia of a loop of intestine and portions of the omentum. epiplopexy (e-pip'[$\bar{\phi}$ -pek-si), n. [Gr. $\ell \pi i \pi \lambda o o v$, the stock of the original attachment. Attachment

Those Englishmen who, in the violence of their recoil from Presbyterianism and Congregationalism, have cherished proclivities in the direction of Episcopolatry."

Ch. Times, Dec. 22, 1882, p. 915.

episcotister (ep'is-kō-tis'tèr), n. [Gr. ἐπισκο-τίζειν, darken, ⟨ἐπί, upon, + σκοτίζειν, make dark,

ζοκότος, darkness.] In psychophys., an instrument devised by H. Aubert for the accurate gradu-ation of intensity



A small motor was attached to the stimulus-lantern, and an episcotister was mounted upon it.

J. W. Baird, Carnegle Inst. Pub., xxix. 60.

episematic (ep"i-sē-mat'ik), a. [Gr. $\ell\pi\ell$, upon, to, $+\sigma\tilde{\eta}\mu a$, mark: see sematic.] Serving as a special means of recognition: applied to characteristics or animals which, when displayed, serve as recognition-marks for the guidance of other individuals of the species.—Episematic coloring. See *coloring.

episioplasty (ep-i-sī'ō-plas-ti), n. [Gr. ἐπίσεων, the region of the pubes, + πλαστός, < πλάσσευν, form.] Operative restoration of a defect in the vulva.

episiotomy (ep'i-sī-ot'ō-mi), n. [Gr. ἐπίσειου, the region of the pubes, + -τομια, < ταμεῖν, cut.] In surg., incisions into the labia during childbirth, made to relieve dangerous stretching of the perineum.

epispadiac (ep-i-spā'di-ak), a. and n. I. a. Relating to or affected with epispadias.

II. n. One who has an epispadias.

epispadias (ep-i-spā'di-as), n. [NL., \langle Gr. $\hat{\epsilon}\pi i$, upon, $+ \sigma \pi a d \hat{\omega} \nu$, a rent.] Abnormal opening of the urethra upon the dorsum of the penis. epispinal (ep-i-spī'nal), a. [epi-+ spinal.]
Situated on or above the spinal cord.—Epispinal spaces, intervals between the spinal cord substance and the pia mater.

episplenitis (ep'i-splē-nī'tis), n. [NL., \langle Gr. $\tilde{\epsilon}\pi i$, upon, $+ \sigma\pi\lambda l p$, spleen, + -itis.] Inflammation of the peritoneal covering of the spleen. epistapedial (ep'i-stā-pē'di-al), α. [Gr. ἐπί, upon, + NL. stapedius (see stapes) + -al¹.] Lying upon or relating to the stapes: as, the epistapedial cartilage, a branch of cartilage running from the columella to the tympanum. epistasis, n. 2. An arrested or stationary condition in the ancestral history of a group of

organisms.

Epistasis is a modified form of the process emphasized by Boas under the name of neotenia, a reversion of a phylum to a modified embryonic condition.

Science, March 6, 1903, p. 381.

episternum, n. 6. In spatangoid sea-urchins, the third pair of plates on the ventral face of the posterior interradius.

episcopality (ē-pis-kō-pal'i-ti), n. [episcopal epistolite (e-pis'tō-līt), n. [So called in allu-t-ity.] 1. The essence of the episcopacy.—
2. The office of bishop.—3. The dignity or bearing of a bishop. \tilde{N} . E. D.
episcopation (ē-pis-kō-pā'shon), n. [NL.*episcopatio(n-), \langle LL. episcopari, be a bishop, \langle episcopatio(n-), \langle LL. episcopari, be a bishop, \langle episcopal office; the being made a bishop.

The act of consecrating to the episcopal office; the being made a bishop.

The ossence of the episcopacy.—
sion to its flat rectangular form and white color; \langle Gr. $\dot{\epsilon}\pi\iota\sigma\tauo\lambda\dot{\eta}$, letter, $+-ite^1$.] A rare mineral, consisting essentially of the silicate, niobate, and titanate of sodium with water, occurring in silver-white tabular crystals with pearly luster: found in southern Greenland.
epistoma, n. (d) The anterior part of the

cephalic doublure of the Trilobita, sometimes isolated by the sutures.

epistomian (ep-i-stô'mi-an), a. Of or pertaining to an epistoma.

ing to an epistoma.

epistroma (ep-i-strō'mā), a. [LGr. ἐπίστρωμα, trappings, ⟨Gr. ἐπιστορεννύναι, spread over, ⟨ἔπί, ονer, + στορεινύναι, spread.] À varied form of ornamentation of the echinoid test, which arises early during postlarval development, and which is due to the deposit of calcareous are the plates. substance on the plates.

epit. An abbreviation (a) of epitaph; (b) of epitom

epitactic (ep-i-tak'tik), a. [Gr. ἐπιτακτικός, < ἐπίταξις, command, injunction, < ἐπιτάσσειν, put upon as a duty, < ἐπί, upon, + τάσσειν, order, arrange.] Of the nature of an injunction or command.

The categorical form involves an *epitactic* meaning.

Whewell, Elem. of Morality, Preface, p. 16.

epitaf, n. and v. A simplified spelling of epitaph.
epithecal, a. 2. Situated on the outside of the
body, as the radial water-vessels of a starfish.

Compare *hypothecal.

Epithelial cancer. See *cancer.—Epithelial pearl or nest. Same as onion *body.

a. Relating to the epithelial cells of a gland or of its duct. Nature, April 24, 1902, p. 604. Epithelial cell, in shape.

epitheliolysin (ep-i-the-li-ol'i-sin), n. [epithe-lium + lysin.] A lysin which is the product of immunization with epithelial cells and is antagonistic toward them.

epitheliomuscular (ep-i-thē'li-ō-mus'kū-lār), a. Concerning or pertaining to epithelial cells with muscular processes.

epitheliotoxin (ep-i-thē/lī-ō-tok'sin), n. [epi-thēlium + toxin.] A cytotoxin produced by immunization with epithelial cells and toxic for the homologous cells.

opithelium, n.—Auditory epithelium. See *auditory.—Cubical epithelium, epithelium composed of cells having a more or less cubical shape. This variety grades into columnar epithelium.—Glandular epithelium, any epithelium consisting of glandular or secreting cells.—Sensory epithelium, an epithelium which gives rise to sensory cells, such as that which forms the essential layer of the organs of the special senses.

epithelization (ep-i-the-li-za'shon), n. [epi-thelium + -ize + -ation.] Conversion into epithelium.

Epithetosomatidæ (ep-i-thet 'ō-sō-mat'i-dē), n. pl. A family of gephyreans, peculiar in having a hollow proboseis whose lumen opens into the

body-cavity, and a series of pore-like openings which lead from the exterior to the same cavity. The typical and only genus is The

Epithetosoma.

epithyme (ep'i-thim), n.
[NL.epithymum.]Thelesser or thyme-dodder, Cuscuta Epithymum. See dodder1

(with cut).

epitokal (e-pit'ō-kal), a.

Of or pertaining to an epitoke; sexual: as, the epitokal region of the palolo.

Nature, April 21, 1904,

epitoke (ep'i-tōk), n. $\ell\pi i$, upon, $+\tau \delta \kappa o c$, birth, production.] The sexual portion of polychætous worms, as the palolo. See *atoke.

*atoke.

epitomatory (ē-pit'ō-matō-ri), a. [epitomate + -ory.] Of the nature of an epitome; epitomized.

epitomic (ep-i-ton'ik), a. [Gr. ἐπίτονος, stretched, ⟨ ἐπιτείνειν, stretch, | ἐπιτείνειν, stretch,] Stretched; overstrained.

G. Meredith.

epitoxoid (ep-i-tok'soid). A. Epithelesoma norepicsom. a, a, right and
left slits leading to the
pores; b, mouth; c, proboscis. B. The same animal opened dorsally. a,
pores; b, esophagus; c,
proboscis; d, brown tube.
A (From "Cambridge Natural History.")

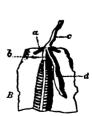
epitoxoid (ep-i-tok'soid),
n. [epi- + toxoid.] A
toxoid which has a less

marked affinity for the corresponding antitoxin

than has the toxin proper.

epitoxonoid (ep-i-tok'sō-noid), n. [cpi-+toxonoid.] A toxonoid which has the least toxonoid.] A toxonoid which has the affinity for the corresponding antitoxin.





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Epitrapezios (ep'i-tra-pē'zi-os), a. [Gr. $\ell\pi\iota$ - $\tau\rho\alpha\pi\ell(\rho\varsigma$, at table, $\langle \ell\pi\iota$, at, $+\tau\rho\alpha\pi\ell(a$, table.]

An epithet of Hercules; specifically, noting a
table-statue of Hercules seated, in bronze, table-statue of Hercules seated, in bronze, which was made by the Greek sculptor Lysippus and presented by him to Alexander the Great. It was afterward owned by Hannibal and by Sulla. In the time of Domitian it had passed to the collection of a Roman amateur poet named Vindex. It is described by Martial and Statius. A plaster cast in the Ecole dea Beaux Arts, Paris, taken from an original now lost is supposed to represent the statue.

epitrichial (ep-i-trik'i-al), a. [epitrichium + -al¹.] 1. Of or pertaining to the epitrichium. -all. If or pertaining to the epitrichium.
 Situated upon a hair or hairs. — Epitrichial layer, a layer of larger cells representing the most superficial layer of the epidermis in the human embryo of the third month.

epitympanic, a. 2. Situated upon or above the tympanum.—Epitympanic bone. See tympanic, n., 2.—Epitympanic space. Same as *attic2, 3. epitympanum (ep-i-tim'pa-num), n. [NL., ζ Gr. ἐπί, upon, + τύμπανον, a drum: see tympanum.] The attic of the tympanum.

epityphlitis (ep'i-ti-fli'tis), n. [NL., < *epityphlum (< Gr. ėni, upon, + ruslóc, blind: see
cæcum) + -itis.] Same as appendicitis.
epivertebral (ep-i-vėr'tē-bral), a. and n. [epi+ vertebral.] 1. a. Situated upon or above a

vertebra.

neural). Si II. n. Same as neural spine (which see, under Starks, Synonymy of the Fish Skele-

ton, p. 524.

epizoicide (ep-i-zō'i-sīd), n. [epizoa + L.-cida, ζ cædere, kill.] An agent which destroys external animal parasites.

epizygal (e-piz'i-gal), a. and n. [Gr. ἐπί, upon, + ζυγόν, a yoke, +-all.] I. a. Having reference to the upper pinnule-bearing of two arm-segto the upper pinnule-bearing of two arm-seg-ments in the Crinoidea, which meet transversely

in a rigid suture and form a syzygy, constituting physiologically but one segment.

II. n. An epizygal segment.

E-plan (ē-plan), n. In arch., a plan according to which three main structures of approximation. mately equal importance are connected, with usually a smaller one projecting into the court of honor between the main wings, the shape of the whole being like that of the letter E.

Compare *L-plan.

epoch, n. 5. In the mechanics of vibration, a term introduced into the equation for a simple

harmonic motion in cases where time is not harmonic motion in cases where time is not reckoned from the instant when the vibrating particle has reached its greatest positive elongation. The equation then becomes $x=a\cos(t\omega+e)$, in which e is the epoch. The epoch is the angle traversed by the point of reference in the interval between the era of reckoning and the instant of greatest elongation.— Chellean epoch. See **diluvian, **forestian.— Helvetian epoch, in geol., a name given by some glaciologists to the second interglacial epoch of Europe, represented by the lignites of Switzerland and Great Britain. It intervened between the Saxonian or second glacial epoch and the Polandian or third glacial epoch.— Interglacial epoch, in geol., one of the intervals of mild temperature in the glacial period, when the ice retired. These intervals are recognized by intercalations in the boulder-clay of stratified beds of sand, gravel, and clay, often containing plantremains or marine or fresh-water shells.— Mecklenburgian epoch [Mecklenburg in north Germany], in geol., a subdivision of the Pleistocene or glacial period, of northern Europe. It is equivalent to the fourth glacial epoch, and is evinced in the ground-moralnes and terminal moralnes of the last great Baltic glacier, which reach their southern limit in Mecklenburg.— Neudeckian epoch, [Neudeck in Prussia], in geol., a subdivision of the Pleistocene or glacial period of northern Europe. It is equivalent to the first interglacial epoch, and is represented by marine and fresh-water deposits between the boulder-clays of the southern Baltic coast-lands. It is preceded by the Mecklenburgian or fourth glacial epoch and followed by the Mecklenburgian or fourth glacial epoch and followed by the Mecklenburgian or fourth glacial epoch and followed by the Mecklenburgian or fourth glacial epoch and followed by the Saxonian or second glacial epoch.— Folandian epoch [Polandian epoch [Polandian epoch, in geol., a subdivision of the Pleistocene or glacial period of northern Europe. It is equivalent to the second interglacia reckoned from the instant when the vibrating particle has reached its greatest positive elontended to the low grounds of Saxony. It is preceded by the Norfolkian or first interglacial epoch and followed by the Helvetian or second interglacial epoch. — Scanian epoch [L. Scania, Scandinavia, Sweden], in geol., a subdivision of the Pleistocene or glacial period of northern Europe. It is equivalent to the first glacial epoch, and is represented only in the south of Sweden (Scania), which was overridden by a great Baltic glacier. — Terrace epoch, in geol., a subdivision of the Pleistocene or glacial period of North America. It is regarded by American geologists as equivalent to a part of the Champlain period, and is characterized by a great abundance of terraces of fluviatile, lacustrine, and marine origin. eponym, n. 4. The archon eponymus at Athens (see archon); also, one of certain Assyrian functionaries who gave their names to the

(see dronon); also, one of certain assyrian functionaries who gave their names to the years during which they held office.

Sponymic disease, a disease which bears the name of a person, usually of the one who discovered or first accurately described it, as Bright's disease.

Econymic dis

epsilon, n. 2. In math., a quantity which approaches zero when the independent variable approaches a certain limit fixed for it by the conditions of the particular problem or discussion.

epsomite (ep'so-mīt), n. [Epsom + -ite².] See stylolite.

equal, a.— Identically equal, congruent; the same in everything but place or name.

equalizer, n. 3. In a wide sense, any form of balanced bar designed to equalize irregular strains, as in the buffers of a car-platform or the springs used to keep a car-vestibule closed under the swaying of the cars when in motion.

—4. A box or tank, loosely filled with sand. 4. A box or tank, loosely filled with sand, -4. A box or tank, loosely filled with sand, coke, sawdust, or other cleansing material, through which the gas from a producer is passed to make its quality uniform.

equalizing-gear (ē'kwal-ī-zing-gēr'), n. Any device for making each of the driving parts do its proportionate share of the work; in motor-vehicles, the differential gear.

equalizing-lever (ē'kwal-ī-zing-lev'er), n. A lever to which the two adjacent ends of the

lever to which the two adjacent ends of the springs of a locomotive are attached. It insures the equal distribution of the weight of the engine between the springs, no matter how the track-surface may depart from a true plane; this mitigates shocks and maintains equal tractive effect on the driving-wheels so as to lessen the tendency to slip on defective alinements.

equalizing-machine (e'kwal-i-zing-ma-shēn") off the ends of blanks of hubs, spokes, handles, etc., to make them of equal length preparatory to turning them in a lathe or preparatory to turning them in a lathe or treating them in some other machine. The simplest machine is a sliding saw-table provided with a length-gage, on which the blank is cut one end at a time. The better and more common types have two circular saws adjustable to positions for blanks of different lengths, and fitted with some form of feed-table for bringing the blanks to the saws. Sometimes called equalizing-saw.

equalizing-pipe (ē'kwal-ī-zing-pīp"), n. A pipe which connects two or more pipes in such a manner as to permit a free flow from one to the other, thus maintaining an equal pressure in all of them.

equate, v. I. trans. 4. To join by the sign of equality.—Equating motion. Same as *jack-in-a-box

equality.—Equating motion. Same as *jack-in-a-box motion.

II. intrans.—To equate for curves. (a) In railroad construction, to diminish the slope of grade of a railroad while passing around a curve, in order to compensate for the increased tractive resistance due to the curve, so that the total tractive resistance on the curve shall be the same as on a straight portion of track having the original grade. (b) In the preparation of the running schedules for trains, to make an allowance of an imaginary increase in length of line, on account of and as an equivalent of the retardation due to curves.—To equate for grades, in the preparation of the running schedules for railroad-trains, to make an allowance of an imaginary increase in length of line, on account of and as an equivalent of the retardation due to grades.

equation, n. 4. It is to be noted that a chemical equation, used to represent the results of a chemical change under certain conditions, does not of itself imply that such results necessarily occur; this can be established only by actual experiment, and the equation merely furnishes a brief form of statement of what the experiment has shown to be true.—Annual equation a periodic variation of the motion of the moon owing to the variation of the sun's distance, in consequence of which as the earth moves from perihelion to splielion the length of the month becomes shorter, the moon's angular motion being accelerated, while the reverse effect takes place as the earth returns from aphelion to perihelion. The effect, equal to a little more than 11 minutes, was discovered by Tycho Brahe about 1590.—Beltrami's equation, an equation analogous to Laplace's equation for a plane. It is of the form

$$\frac{\partial}{\partial u} \left(\frac{\partial \frac{\partial \phi}{\partial u} - \mathbb{F} \frac{\partial \phi}{\partial v}}{H} \right) + \frac{\partial}{\partial v} \left(\frac{\mathbb{E} \frac{\partial \phi}{\partial v} - \mathbb{F} \frac{\partial \phi}{\partial u}}{H} \right) = \circ;$$

where $H = \sqrt{EG - F^2}$, and u, v are variables determining the position of a point on a surface such that the square of its linear element $ds^2 = \mathbf{E} \ du^2 + 2 \ \mathbf{F} \ du \ dv + \mathbf{G} \ dv^2$. Beltrami, Opere Matematiche, I. 325. — Brightness equational equation, in psychol.-optics, the subjective match of two impressions in regard to brightness or luminosity. A typical brightness equation would be given with the matching of two grays. The term is, however, generally reserved for the matching (in respect of brightness) of a color with a color, or of a color with a gray.—Consistent equations, simultaneous equations.—Oyclotomic equation, an equation related to the partition of the perigon, such as $(x^n-1)/(x-1) = 0$, where n is prime.—Dimensional equation, in phys., a formula or equation indicating the manner in which the fundamental units of any system of physical measurements enter into a derived unit or quantity.—Equation of acceleration. See **acceleration.—Equation of elasticity. See **elos*ticity.—Equation of energy. Denoting kinetic energy by E(E), and potential energy by E(P), we may write the energy equation $-(E(P) - E_0(P)) = E(K) - E_0(K).$

 $-[E(P) - E_0(P)] = E(K) - E_0(K).$

by K(K), and potential energy by E(P), we may write the energy equation $-[E(P)-E_0(P)]=E(K)-E_0(K).$ In words: The total energy of the system, or the sum of the kinetic energy and the potential energy, is a constant quantity.—Equation of equilibrium, an equation expressing the conditions under which the parts of a dynamical system will remain at rest. The complete specification of the conditions of equilibrium usually demands a set of such equations.—Equation of force, an equation expressing the dimensions of the derived entity force (P) in terms of the fundamental entities, mass, length, and time: $[P] = [M] [L] [T]^{-2}$.—Equation of state, the law $f(p, q, \theta) = \alpha$, connecting the pressure (p), volume (e), and temperature (f) defining the change of state of a homogeneous liquid or gaseous substance.—Equation of the equinoxes, the difference between the mean and apparent places of the equinoxes, arising from the variation in the force which produces their precession. This force is a maximum when the sun passes the solstices, and disappears at the time of the equinoxes.—Equations of the transformation, the equations which express x and y in terms of x and y, or inversely, when a point transformation replaces P(x, y) by P(x, y).—Equation time-pisce, a timepisce which shows the difference between mean and apparent solar time. [Now obsolete.]—Equivalent equations, equations such that every root of either is also a root of the other.—Exact differential is equated to zero.—Formulaic equation, an equation which has to do only with the very nature of the operations involved, and not at all with the particular numbers operated with. Thus the equation (a + b) + c = a + (b + c) expresses the fact that addition is an associative operation.—Fractional equation, one containing an expression in which has to do only with the equation of prime degree whose roots are all rational functions of two of the roots.—Gas equation, the equation y = 0, where y is pressure, y outless y temperature, and y a const

$$x(1-x)\frac{d^3y}{dx^3} + \left\{c - (a+b+1)x\right\}\frac{dy}{dx} - aby = 0,$$

where a, b, c are constants, and z is the independent variable.—Graph of an equation. See *graph.—Green's equation,

$$\iiint \nabla u \cdot \nabla v dv = \iint \mu \nabla v \cdot d\sigma - \iiint v \nabla^2 v dv,$$

an equation useful for problems in gravitation, hydrodynamics, and electrostatics.— Hypergeometric equation. Same as Gauss's *equation.— Incompatible equations, equations having no solution whatever in common: for example, x + y = 4 and 2x + 2y = 9.— Inconsistent equations, incompatible equations.— Integral equation. (a) In $d\nu$, an equation whose terms are integral expressions so far as concerns the unknown or variable. (b) In the calculus, an equation which contains no differentials.— Irrational equation which contains an indicated root of an unknown or variable.— Laplace's spherical harmonic equation. Same as Laplace's spherical harmonic equation ton whose group for a domain R is the metacyclic group of degree p.— Octic equation, an equation of the eighth degree.— Poisson's equation, an equation of the eighth degree.— Poisson's equation,

$$\frac{\partial^2 V}{\partial x^2} + \frac{\partial^2 V}{\partial y^2} + \frac{\partial^2 V}{\partial z^2} = \frac{1}{\kappa} \frac{\partial V}{\partial t} = 4\pi\rho,$$

where κ is a constant; x, y, z are the coordinates of a point in space; t denotes the time; ρ is a function of x, y, z, and V may denote temperature, potential, etc. — Primitive of a differential equation, an integral equation which satisfies a differential equation.— Radical equations, in optics, equations from which the phase and intensity of the reflected ray may be computed from the angle of incidence and the index of refraction of the mirror. The two best-known forms of such equations are those of Fresnel and of Neumann.— Symmetric equation, an equation which is unchanged by interchange of the unknowns or variables.—Tidal equations, equations which are involved in the theory of the tides.—To reduce an equation, an equation which represents the relation between volume and pressure of a gas with much better approximation than the law of Boyle and Gay-Lussac. The law of Boyle may be written pv = RT; where p is the pressure exerted by a gram-molecule of the gas when its volume is v, T is the absolute temperature, and R is a constant. To the pressure, p, van der Waal's adds the attraction of the molecules of the gas on one another, represented by $\frac{a}{v^2}$, and he subtracts on one another, represented by $\frac{a}{r^2}$, and he subtracts from the volume, v, that part of this volume which is so occupied by the molecules that it is not left free for their motion. The equation becomes $\left(p + \frac{a}{v^2}\right) \left(v - \beta\right) = RT$, where a and β are constants depending on the properties of the gas in question. Vertical equation, the equation of a conic referred to a vertex as origin.—Zonal equation. See *zonal.

equational, a. 2. Operating with equations: as, equational logic.

equation or as equations: in the form of equations; by use of equations.

equationism (ē-kwā'shon-izm), n. [equation

+ -ism.] The principle of solving problems equationally.

equationally.

equator, n.— Hydrometeoric equator, the line which divides regions in which the rainfall varies with the slight movement of the equatorial belt of calms and attending winds; the pluviometric equator. This line varies not only with the variation of the winds, but also with the orography, and is often determined by the presence of an elevated ridge trending nearly east and west. Supan's hydrometeoric equator bends south of the astronomical equator on the east of the continents, and north on the west.

Dr. Supan draws a line the hydrometeoric equator.

west.

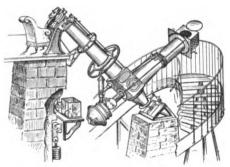
Dr. Supan draws a line, the hydrometeoric equator, dividing regions experiencing the rainfall conditions of the northern winter half-year from regions which have those of the southern summer half-year and vice versa. This bends south of the astronomical equator in the east, and north in the west, of the continents, which may be interpreted, in the present writer's opinion, as a monsoonal phenomenon. Geog. Jour. (R. G. S.), XIII. 64.

meteroreca, in the present where some some some present where some some present where some some present which corresponds to the best of calms, midway between equal opposing winds, and with reference to which the general circulation of the atmosphere is approximately symmetrical.

equatorial. I. a. 2. In crystallog., of or pertaining to the horizontal or lateral plane.

— Equatorial acceleration of the sun. See *acceleration.— Equatorial best of low pressure. See *pressure.— Equatorial crystal, a crystal in which the principal axis of symmetry is perpendicular to the equatorial plane of symmetry is perpendicular to the equatorial plane of symmetry.— Equatorial horizontal parallax. See *parallax.— Equatorial mounting, the mechanical part of an equatorial telescope, consisting of the stand, axes, circles, driving-clock, etc., with their appendages.— Equatorial symmetry. See *symmetry.

II. n.—Elbow equatorial, or (F.) équatorial coudé, an equatorial so arranged that by the use of two



Equatorial Coudé of the Paris Observatory.

plane mirrors the observer is able to view an object in any part of the heavens by looking down the polar axis from a fixed position. It has great advantages and some drawbacks.—Twin equatorial, two telescopes, which may be of different sizes and forms, attached to the same equatorial mounting. In some cases the two tubes are firmly connected; in others they are independent as to their motion in declination.—Universal equatorial, an equatorial so constructed that its mounting and driving-clock can easily be adjusted to suit any latitude.

equatorward (ē-kwā'tor-ward), adv. [equator + -ward.] In the direction of the equator; with motion toward the equator.

equianchorate (ē-kwi-ang'kor-āt), a. and n. [L. æquus, equal, + anchora, prop. ancora, anchor, + -atel.] I. a. Having similar anchorate processes at each end. See anchorate.

II. n. An equianchorate sponge-spicule.

11. n. An equianchorate sponge-spicific equiangular, a.—Mutually equiangular, having the angles of the one equal respectively to the angles of the other, taken in the same order.

equiangularity (ê'kwi-ang-gū-lar'i-ti), n. The condition or quality of being equiangular.

Equianharmonic quadrangle. See *quad-

equiarcal (ē-kwi-ār'kal), n. [For *equiarcual, (L. æquus, equal, + arcus, bow (arc), + -all.] A line which cuts off, on a system of curves, equal arcs measured from the origin.

equiarticulate (ē'kwi-ār-tik'ū-lāt), a. [L. æquus, equal, + articulus, joint, + -atel.]

1. Alike in the number and arrangement of

1. Alike in the number and arrangement of articulations.—2. Having joints of equal length, as the legs of some crustaceans. equiaxial (ē-kwi-ak'si-al), a. [L. æquus, equal, + axis, axis, + -all.] Having axes of equal length. Buck., Med. Handbook, II. 320. equicellular (ē-kwi-sel'ū-lār), a. [L. æquus, equal. + cellula, cell, + -ar3.] Composed of an aggregation of similar cells. as some colonial protozoans.

colonial protozoans.

equicross (ē'kwi-krôs), a. [L. æquus, equal, + E. cross¹, a.] Having equal cross-ratios.

equationally (ê-kwā'shon-al-i), adv. As an equidiagonal (ê'kwi-dī-ag'ē-nal), a. [L. equation or as equations: in the form of equaæquus, eq diagonals.

equidimensional (ē'kwi-di-men'shon-al), a. [L. æquus, equal, + dimensio(n-), dimension, + -all.] Having equal dimensions: used especially in description of the grain of rocks. equidistant, a = Equidistant projection.

equidistant, a.—Equidistant projection. See *projection. II. n. Same as *equidistantial. equidistantial (ê'kwi-dis-tan'shal), n. [NL. *æquidistantia, equidistance, \dotplus - al^1 .] A curve, in Bolyai's non-Euclidean geometry, coplanar with a straight line, perpendiculars to which from all points of the curve are covered. equal.

In the Euclidean geometry all points equidistant from a straight line are on a straight line. In this non-Euclidean geometry all points equidistant from a straight line are on a curve called the equidistantial.

Science, March 11, 1904, p. 404.

Equidistantial surface, in Bolyai's geometry, the locus of points on one seed a plane from which perpendiculars to that plane are sound

of points on one side of a plane from which perpendiculars to that plane are equal equipment of the plane are equal equal of the plane are equal. (a.) (b.) (c.) (c.) (c.) (d.) (d.

elliptic eccentricity.

equiglacial (ē-kwi-glā'shal), a. [L. æquus, equal, + glacies, ice, + -all.] Being in the same condition as regards ice.—Equiglacial lines, lines drawn by Hildebrandsson connecting those points on the earth s surface at which the condition of the ice-formation is the same as to thickness or amount on any given day in the year.

equigraphic (ē-kwi-graf'ik), a. [L. æquus, equal, + Gr. -γραφια, ⟨γράφειν, write.] Homolographic; noting a method of map-projection in which equal areas of the earth's surface are

which equal areas of the earth's surface are reduced to equal areas on the map.

equilarcenous (ek-wi-lär'se-nus), a. [L. equus, a horse, + E. larcenous.] Given to horse-stealing. [Humorous.]

equilateral, a.— Mutually equilateral, having the sides of one equal respectively to the sides of the other taken in the same order.

equilateralness (\hat{e} -kwi-lat' \hat{e} -al-nes), n. The condition or quality of being equilateral.

condition or quality of being equilateral.

equilibration, n.—Artificial equilibration, in sociol., adjustment to environment by artificial means or intelligent choice, as opposed to the equilibration brought about by natural selection. L. F. Ward, Dynamic Sociol., II. 484.—Law of equilibration, the law, formulated by Spencer, that in society, as throughout the cosmos, a group or aggregate highly charged with energy transforms a neighboring group or aggregate less highly charged.

equilibristic (ô'kwi-li-bris'tik), a. [equilibrist - ic.] Of, or characteristic of, an equilibrist.

-ic.] Of, or characteristic of, an equilibrist;

equilibristic (ê'kwi-li-bris'tik), a. [equilibrist; balancing.
equilibrium, n., 1. In phys. chem., the equilibrium of a thermodynamic system is said to be indifferent if it is not disturbed by changing the mass of some or all its phases. If a system consists of a liquid and of its vapor, at a certain temperature, and at the pressure of the vapor saturated at that temperature we may, without changing temperature or pressure, condense a certain mass of vapor or evaporate a certain mass of liquid, and the system will be in equilibrium indifferently in every one of the states through which it is made to pass. The same is true of a system consisting of a hydrated salt and of a solution of the hydrated salt, at the temperature at which the solid salt and the solution have the same composition: a certain amount of the solid may be dissolved or precipitated, but the system is indifferently in equilibrum in every one of the states through which it is made to pass.—Absorptiometric—equilibrium, the tendency of the force of gravity to produce motion in any portion of the atmosphere, either horizontally or vertically, relatively to the earth's surface. In static equilibrium there is no tendency to move in any direction. In thermal equilibrium there is no tendency to move so far as the temperature influence is concerned. The equilibrium of mixed gases is disturbed by the fact that dry air is denser than moist air, the former sinking under the influence of centrifugal force more energetically than the latter. These conditions give rise to problems in thermal-gravitational and thermal-centrifugal equilibrium, under the influence of centrifugal force more energetically than the latter. These conditions give rise to problems in thermal-gravitational equilibrium, when the decrease of temperature with altitude in the surrounding still air is less than the adiabatic rate in moving air, or one degree Fahrenheit for each 183 feet. In this case a mass of air at any height in the atmosphere has a tendency to return to its original leve balancing.

and reproduced at the same rate.—Convective equilibrium, the tendency or liability of a mass of air to ascend or descend in the atmosphere because of buoyancy. In stable convective equilibrium the ascending and descending masses return to their initial levels because the rate of cooling due to expansien, or warming due to compression, exceeds the gradient in the quiet air. In unstable convective equilibrium ascending masses continue to ascend and descending masses continue to descend because their changes of temperature and density are less than those in the quiet air about them. In indifferent convective equilibrium the ascending and descending masses remain always in equilibrium with the strata into which they come, because their changes of temperature coincide with those of the quiet air through which they pass.—Criterion of equilibrium, a simple law or rule, based upon a study of the conditions of equilibrium of a system, by means of which the question whether equilibrium exists in any given case may be decided. Gibbs has shown that in an isolated system the energy of which is constant, thermodynamic equilibrium exists when the entropy of which is constant, equilibrium exists when the energy is constant or increasing.—Equation of equilibrium, see *equation.—False equilibrium, in phys. chem., a state of equilibrium not capable of prediction by thermodynamics in its present development. All the equilibriums predicted by thermodynamics can be verified by experiment, but many cases of equilibrium cour which cannot now be predicted by thermodynamics, or which are contradicted by thermodynamics in the resultance of equilibrium and apparent false equilibrium, for water should not remain in equilibrium; of the water should not remain in equilibrium; of the water should not remain in equilibrium

equilibrium-ring (ē-kwi-lib'ri-um-ring), n. balancing-ring; a metal ring placed on the back of a slide-valve, or in the casing of a steam-chest, to keep the steam-pressure from acting over an area on the back of the valve equal to the area of the exhaust-port. This so relieves the valve of pressure that it is practi-cally balanced. The ring is usually placed in a recess and kept tight by placing springs behind it.

equilibrize (ē-kwil'i-brīz), v. t.; pret. and pp. equilibrized, pp. equilibrizing. [equilibr(ium) + -ize.] To bring into a state of equilibrium or equipoise; balance or cause to balance.

equilobate (ē-kwi-lō'bāt), a. [L. æquus, equal, + lobus, lobe, + atei.] Having lobes of equal size, as the tails of some fishes.

equimolecular (e'kwi-mo-lek'ū-lār), a. [L. æquus, equal, + NL. molecula, molecule, + -ar³.] Having or containing an equal number of molecule. of molecules.—Equimolecular solutions, in phys. chem., solutions in which equal volumes contain the same number of molecules of the two dissolved substances, this, solutions which contain quantities of the two dissolved substances which are in the ratio of their molecular

equinate (ek'wi-nāt), v. t.; prep. and pp. equinated, ppr. equinating. [equine + -atcl.] To inoculate with glanders.

equinocavus (ek-wi-nok'a-vus), n. [NL., < Lequinus, of a horse, + cavus, hollow.] Same as *talipes equinocavus.

Equinoctial year. See *year.
equinovarus (ek'wi-nō-vā'rus), n. [NL., < L.
equinus. of a horse, + varus, bent.] Same as talipes equinovarus.

equinox, n. — Equation of the equinoxes. See *equation. — Mean equinox, the point on the equator which is determined by correcting the true equinox of the date for the equation of the equinox and the nutation.

equinus (ë-kwi'nus), n. [NL.. < L. equinus, of a horse: see equine.] Same as talipes equinus.

equipartile (ē-kwi-pār'til), n. [L. æquus, equal. + pars (part-), part, +-ile.] One of the divisions between which stand equipostiles. Biometrika, Aug., 1902, p. 386.
equipartition (ē'kwi-pār-ti'shon), n. [L. æquus, equal, + partitio(n-), partition, distribution.] In phys., the distribution of energy throughout a medium, consisting of molecules in motion, in accordance with the law of the partition of energy. partition of energy. See *energy.

Equipartition of energy is supposed to establish itself within a small fraction of a second.

Lord Rayleigh, in Nature, LXXII. 54.

equiped (ē'kwi-ped), a. and n. [Also equipede; L. æquus, equal, + pes (ped-), foot.] I. a. Having legs of equal length: said of some crustaceans: as, the equiped chilopods.

II. n. One of the chilopods whose legs, save the last pair, are of approximately equal length; a member of the Equipedes of Kirby.

a member of the Equipedes of Kirby.

equipment, n.—Bureau of Equipment. See *burcau.

equipoise (ē'kwi-poiz), v. t.; pret. and pp.

equipoised, ppr. equipoising. [equipoise, n.] 1.

To bring into a state of equipoise or balance;
hold in equipoise.—2. To counterbalance equipostile (ē-kwi-pos'til), n. [L. æquus,
equal, + (†) post, after, +-ile.] An object,
value, or term in a series or array corresponding to values of an argument in a rithmetical

ing to values of an argument in arithmetical progression. Biometrika. Aug., 1902, p. 390. equipotent (ē-kwip'ō-tent), a. [L. æquus, equal, + potens, powerful: see potent.] Equal

equal, + potens, powerful: see potent. Equipoin power.

Equipotential function. See *function.—Equipotential system, a system of forces such as is represented by certain animal ova or adult lower animals, like Tubularia or Clavellina, each portion of which has the same prospective potency in development or regeneration, that is, is capable of responding adaptively to a number of conditions.

conditions.

equipotentiality (ē'kwi-pō-ten-shi-al'i-ti), n.

The quality of being equipotential.

equiprobabilism (ē-kwi-prob'a-bil-izm), n.

[L. æquus, equal, + probabilis, probable, +
-ism.] The opinion in moral theology that
where the reasons for either of two opposed courses of action are equally balanced, a man may use his liberty to follow either.

equiradial (ē-kwi-rā'di-al), a. [L. æquus, equal, + radius, spoke (radius).] Having equal radii.

equal radii.
equiradiate (ē-kwi-rā'di-āt), a. [L. æquus, equal, + NL. radiatus, radiate.] Having radii of equal length. as certain sponge-spicules. Proc. Zool. Soc. London, 1900, p. 129.
equirotal, a. II. n. A vehicle, invented in the early part of the nineteenth century, having wheels of uniform size and the body jointed in the middle the forward portion turning

in the middle, the forward portion turning with the front axle.

Equisetales (ek-wi-sē-tā'lēz), n. pl. [NL., < Equisetum + -ales.] An order of pterido-phytic plants of the class Equisetinese, containing the family Equisetaceæ only, which see for characters.

cnaracters.

Equisatines (ek-wi-sē-tin'ē-ē), n. pl. [NL., < Equisatines (ek-wi-sē-tin'ē-ē), n. pl. [NL., < Equisatin + -ines.] A class of cryptogamic plants of the phylum Pteridophyta. It embraces the orders Equisateles and Calamariales. Engler now uses the name Equisateles for this group, calling the order Eucquisateles, a change of doubtful propriety.

equisized (ē'kwi-sīzd), a. [L. æquus, equal, + E. sized.] Of the same size.

The two Rhomboidea are about equisized.

Proc. Zool. Soc. London, 1897, p. 290.

Equitable assignment. See *assignment. equitative (ek wi-tā-tiv), a. [equitate + -ive.]
If or pertaining to equitation or horsemanshir

equitonsal (ē-kwi-ten'sal), n. [L. æquus, equal, + tens(io(n-)), tension, + -all.] A line which cuts a system of tense lines so that the

which cuts a system of tense lines so that the tensions at the crosses are all equal.

Equitinm (ek-wi-ti'nē). n.pl.[NL., < Eques (Equit-) + -inæ.] A subfamily of drumfishes typified by the genus Eques: called ribbon-fishes from their lengthwise black stripes.

equiv. An abbreviation of equivalent.

equivalence, n. 2. In chem., capability of mutual replacement, in chemical combination, of definite quantities of different substances:

of definite quantities of different substances: thus, there is equivalence between approximately 18.07 parts of aluminium, 40.1 of calcium, 46.1 of sodium, and 55.9 of (ferrous) iron in combining with the same fixed quantity of oxygen. equivalent. I. a. 3. In geom.: (b) Said of two polygons if they can be cut into a finite number of triangles congruent in pairs.—5. In chem., applied to the respective quantities of

different substances which are capable of replacing each other in combination with a fixed quantity of some particular substance. These mutually replaceable quantities of such substances are said to be equivalent to each other. See *equivalence, 2.—Equivalent by completion, in geom., said of two polygons if it is possible so to annex equivalent polygons to them that the two polygons so composed are equivalent.—Equivalent equations, focus, illumination, lens, projection, sets. See *equivalent.etc.

in geom., said of two polygous n to be predicted by the passage of the mind that the two polygons so composed are equivalent.—Equivalent equations, focus, illumination, lens, projection, sets. See *equivalent. The projection of the sequitation, etc.

II. n. 3. See *equivalence, 2.—Electrochemical equivalent of an element, in phys. chem., the weight in grams of that element which, in electrolysis, is transformed from the ionic to the non-ionic condition, or conversely, by the passage of the unit quantity of electricity, or one coulomb. If this equivalent is known for any one element, it thereby becomes known for all other elements by the third of Faraday's laws of electrolysis. Silver is the element selected for the experimental determination, and the value adopted for its electrochemical equivalent by the International Congress of Electricity at Chicago, in 1883, is 0.001,118 gram. This number is perhaps too small by about one part in a thousand. If we divide this equivalent weight of any other element, we obtain the weight of the second element which would be deposited by the passage of one coulomb of electricity. For instance, the atomic weights of silver and of copper being 107.93 and 63.6, and the equivalent weight of copper being half its atomic weight, we have \$\frac{31.8}{107.93} \times 0.001,118

For instance, the atomic weights of silver and of copper being 107.93 and 63.6, and the equivalent weight of copper being 107.93 and 63.6, and the equivalent weight of copper being half its atomic weight, we have \$\frac{31.8}{107.93} \times 0.001,118 gram equals the electrochemical equivalent weight of copper, or 0.000,328 gram.— Mechanical equivalent of light, the numerical quantity which expresses in ergs, or other units of mechanical energy, the value of a unit of light. If we take as the unit of light that which produces an illumination of one lux, we may define the mechanical equivalent of light as the energy in ergs of the light-giving ether-waves received in one second upon one square centimeter of surface at a distance of one meter from a source of light having an intensity of one hefner. The first attempt to estimate the mechanical equivalent of light (although not in precisely the above terms, which are of more recent origin) was made by Julius Thomsen in 1865. He determined in absolute measure the radiation from an incandescent body, as a gas or oil-fiame then filtered out the infra-red rays by interposition of a cell of water, and measured the transmitted light. On account of the incomplete adiathermancy of the cell, his values are, however, subject to a large correction. Measurements by more refined methods have since been made by Tumilirs and by Angström. (See *efficiency of a source of light.) Angström found the luminous energy received by a square centimeter of surface at a distance of one meter from the fiame of a Hefner lamp to be 20.6 × 10-8 gram-calories per second. The composition of light from various sources, as gas-fiames, the electric arc, or the sun, differs, and the effect of radiation upon the eye varies greatly with the wave-length. The luminosity is a maximum for rays in the middle of the spectrum and diminishes rapidly toward the red and violet. The mechanical equivalent that of all other sources of light that have been spectro-photometrically compared with the Hefner fiame. The r

Source of light.	Ergs per second per square centi- meter for one lux.
Untreated carbon at 1,000° C.	29.0
Untreated carbon at 1,400° C.	9.14
Glow-lamp at 2,000° C.	7.26
Hefner lamp	8.63
Petroleum-flame	8.69
Gas-flame	9.13 to 7.70
Acetylene-flame	7.12
Zircon-light	7.17
Lime-light	7.21 to 5.89
Arc-light	5.89 to 5.79
Welsbach light	4.50 to 4.39
Sunlight	4.85
Daylight (from sky)	5.53

The energy in ergs given in the above table does not include the total energy received at the surface by radiation, but only that portion which is capable of affecting the eye—in other words, of producing illumination. The amount of energy falls off rapidly as the temperature in the case of treated carbon surfaces, as in the incandescent-tamp filament, than with untreated carbon, and still less in the case of light obtained from incandescent oxids. Thus the ergs of luminous energy per centimeter per second, corresponding to an illumination of one lux, are less for the Welsbach mantle and for the magnesium flame than for the electric arc, although the temperatures for the former sources are much lower.—Osmotic equivalent, that quantity of any substance which, if contained in a given volume of solution, will produce the same osmotic pressure as a standard quantity of some other substance when contained in the same volume of solution.—Principle of kinesthetic equivalents, in psychol., the principle that "for each of our intentional actions we must have some way of thinking about the action, of remembering how it feels, looks, etc.; we must have something in mind equivalent, to the experience of the movement." J. M. Baldwin, Story of the Mind, p. 20.—Saponification equivalent, in chem., the quantity of an alkali: usually expressed in the form of the number of grams of the oil saponified by 56.1 grams of caustic potash or 40 grams of caustic soda. Sadtler, Handbook of Indust. Chem., p. 288.—Water equivalent, in capacity for heat, to a given body; the mass of a given body multiplied by its specific heat.

equivoluminal (ē'kwi-vō-lū'mi-nal), a. Equal

as to volume; of equal cubical content.

as to volume; of equal cubical content.

aquivote (ā'kwi-vōt), n. [L. æquus, equal, +

votum, wish (vote).] A tie in voting, an equal

number of votes being cast on each side.

aquoid (ā'kwoid), a. [L. equus, horse, + -oid.]

Resembling or having the characters of the

Equidæ, or horse family; horse-like.

Equus beds. See *bed1.

Tr. A simplified spelling of err

er, v. A simplified spelling of err.

era, n. 4. In geol., a division of geologic time which, according to the recommendation of the International Congress of Geologists, is to be regarded as of highest rank, corresponding to the stratigraphic term group. See group!,

(3.6) to the stratigraphic term group. See group¹, 3 (b).—Lithic era, the first half of J. D. Dana's azole eon, during which there was a solid crust on the earth, but the temperature was too high to permit condensation of the vapors as oceans. It was followed by the oceanic era.—Oceanic era, according to the classification of the early stages in the earth's history, that era of the azole eon in which the atmospheric waters were condensed into an ocean over all the sphere or in an oceanic depression, with finally some emerging lands cooled from molten rock. The temperature of this ocean is conceived to have been about 5,000° F. at the beginning of the period, and before its close the action of the ocean waters had caused the deposition of sediments which formed the earth's supercrust.—Psychozoic era, the present age, or the age of man, as distinguished from former geological ages before the appearance of man.

Bradicator (ē-rad'i-kā-tor), n. 1. One who

eradicator (e-rad'i-kā-tor), n. 1. One who roots up or roots out and destroys.—2. An agricultural implement or machine used in

erasion, n. 2. In surg., the removal of morbid tissue by scraping.

Erasmianism (ē-raz'mi-au-izm), n. [Erasmian, adj. (< Erasmus), +-ism.] The religious system of the scholar and humanist Erasmus (1466-1526) of the scholar and humanist Erasmus (1466–1536). He anticipated Luther in affirming the Bible to be the true source of theology. He condemned the subtleties of the scholastic systems; emphasized the moral elements of Christianity; and satirized the faults of the clergy, but refused to follow Luther, remaining in the communion of the Roman Catholic Church. The term is applied, therefore, to the attitude of men who protest against error, but compromise with existing institutions.

Erastianize (ë-ras'tian-iz), v. [Erastian + -ize.] I. trans. To make to accord with Erastianism.

II. intrans. To favor Erastianism.

H. intrans. To favor Erastianism.

E-rays. See *ray1.
erbin (er'bin), n. [Also erbine, < erb(ium) +
in2.] Same as erbia.

erdmannite (erd'man-it), n. [Named probably for A. Erdmann." (Chester.)] A complex mineral substance near allanite in composition, but perhaps only a mixture: obtained from Norway.

from Norway.

Erdmann's float, reagent. See *float, *reagent.

erecting-shop (ē-rek'ting-shop), n. A building or room in which engines or machines are assembled, as the parts are completed, to insure that all the parts will fit properly. Such a shop is provided with foundations, base-plates, benches, cranes, and other conveniences, according to the character of the machines to be erected.

erection, n. 10. In astrol., the construction of a scheme or figure of the heavens.

a scheme or figure of the heavens.

By erection of her figure, I gest it.

B. Jonson, Alchemist, iv. 4.

erector, n. 3. A workman employed to put in place the steel part of buildings, bridges, or ships.—4. A machine, such as a derrick, used to place material in position in any structure. eremian (e-remian) a. [Gr. $\epsilon\rho\eta\mu\alpha$, a desert, a solitude, $\langle \epsilon\rho\bar{\eta}\mu\alpha$, solitary.] Of or pertaining to the desert.—Fremian subregion, in zoogeog., a division or subregion embracing northern Africa, northern Arabia, the greater part of Persia and Afghanistan, and the desert region of central Asia from the steppes of southern Russia to Manchuria.

Russia to Manchuria. **Eremochæta** (e-rē-mō-kē'tā), n. pl. [NL., \langle Gr. $\dot{\epsilon}\rho\bar{\eta}\mu\rho\varsigma$, solitarv, $+\chi\alphai\tau\eta$, bristle.] In the classification of Östen-Sacken, a superfamily of dipterous insects, including the families Strationyidæ, Tabanidæ, Acanthomeridæ, and Leptidæ.

to or characteristic of the superfamily Eremochæta. Cambridge Nat. Hist., VI. 446.

eremomeline (er-ē-mom'e-lin), n. One of the group of African birds known as Eremomeline.

group of African birds known as Eremometing. eremophobia (e-rē-mō-fō'bi-ā), n. [NL., \langle Gr. $\dot{\epsilon}\rho\bar{\eta}\mu\rho\varsigma$, solitary, + - $\phi\rho\beta\iota a$, \langle $\phi\rho\beta\bar{\epsilon}\bar{\nu}\nu$, fear.] Morbid fear of being alone. Eremurus (er-ē-mū'rus), n. [NL. (Bieberstein, 1818), \langle Gr. $\dot{\epsilon}\rho\bar{\eta}\mu\rho\varsigma$, solitary. + $\dot{\nu}\nu\rho\dot{a}$, tail, stalk. The name alludes to the leadless flower-stalk and raceme.] A genus of plants of the family Liliaceæ. There are about 18 species, natives of the mountains of western and central Asia. Several are

cultivated for their striking habit and great flower-stalks striking habit and great flower-stalks crowned with showy white, rose-colored, or yellow flowers. The leaves rise from the root in a deuse clump or rosette; the flowers have 6 segments, usually withering on the stalk, 6 stamens, and a 3-partitioned and 3-cornered ovary. Among the garden species are E. robustus, E. Himalaicus, and E. spectobitis. The best known is E. robustus, which often sends up a stalk 8 feet high bearing rose-colbearing r

erepsin (e-rep'sin), n. [L. erep-



Eremurus spectabilis.
One fourth natural size

(tus), pp. of eripere, snatch away, + -s- + -in².] A ferment
discovered by O. Cohnheim in the intestinal mucosa, which is capable of causing the cleavage of acid albumins and albumoses into crystalline end-products of proteolytic digestion, but which is without effect upon the native albumins. It acts in neutral or feebly alkaline media. A similar ferment has apparently been

found also in the vegetable world.

Erethizontidæ (er e-thī-zon'ti-dē), n. pl.

[Erethizon(t-) + -idæ.] The American porcupines of the genera Erethizon and Coendoo (Synthesia) theres), considered as constituting a family, a

theres), considered as constituting a family, a view generally held by American zoologists. O. Thomas, 1897. See cut under porcupine. eretmologist (er-et-mol'ō-jist), n. [*eretmology (Gr. ἐρετμός, oar, + -λογια, < λέγειν, speak) + -ist.] One who is skilled in the science of rowing; a professional oarsman. [Humorous.]

erm *free energy.* ergasiomania (ėr-gas'i-ō-mā'ni-ä), *n*. ζ Gr. εργασία, work, labor, + μανία, madness.]
 A restless desire, amounting at times to an insane impulsion, to be continually at work; also, a desire on the part of a surgeon to operate at every opportunity, whether or not the operation is indicated or justifiable. ergasiophobia (er-gas"i-ō-fō'bi-ä), n. [NL.,

igasiopholia (cl-gas 1-10-10-12), π. [1712., ⟨ Gr. ἐργασία, work, labor, + -φοβία, ⟨ φοβείν, ſear.] An excessive disinclination, which fear. may amount to an insane aversion, to work; also, excessive timidity, on the part of a surgeon, and fear to perform an operation even

when it is urgently indicated.

ergastic (er-gas tik), a. [Gr. ἐργαστικός, able to work, working, ⟨ἐργάζεσθαι, work, ⟨ἐργον, work.] Being the result of biologic activity: a term applied to rather stable substances formed by the activity of the cell-cytoplasm.

A. Meyer, 1896.
ergastinæ (er-gas-ti'nē), n. pl. [Gr. ἐργαστίναι (Hesychius), ἐργαστής, ζ ἐργαζεσθαι, work.]
In Gr. antiq., maidens who were chosen to weave and embroider the peplum of Athena. Certain figures in procession in the eastern frieze of the Parthenon are supposed to represent them.

ergastoplasm (er-gas'tō-plazm), n. [Gr. $\epsilon \rho \gamma a \sigma \tau$ -(ικός), able to work, $+ \pi \lambda \dot{\alpha} \sigma \mu a$, anything formed.] The more active portion of the protoplasm which forms the fibrillar structures of

ergatandrous (er-ga-tan'drus), a. [Gr. $\epsilon \rho \gamma \acute{a} \tau \eta \varsigma$, a worker, $+ \dot{a} \nu \acute{\eta} \rho$ ($\dot{a} \nu \acute{o} \rho$ -), male, + - ous.] Having worker-like males: said of certain ants. ergatandry (er-ga-tan'dri), n. [Gr. $\dot{\epsilon}\rho\gamma\dot{\alpha}\tau\eta\varsigma$, worker, $+\dot{\alpha}\nu\dot{\eta}\rho$ ($\dot{\alpha}\nu\dot{\delta}\rho$ -), male, + - y^3 .] In entomol., the condition of certain male ants

which fail to develop wings and resemble the worker-ants in form.

BY STATES AND THE STATES AND ergatogyne (er 'ga - tō - jin), n. [Gr. ἐργάτης, worker, + γυνή, female.] A female ant of worker-like aspect due to the absence of wings

and wing-muscles; an ergatoid female.
ergatogynic (er "ga-tō-jin'ik), a. Same as
*ergatogynous. Biol. Bulletin, May, 1904, p. 252

ergatogynous (er-ga-toj'i-nus), a. [Gr. iργάτης, a worker, + γυνή, female, + -ous.] Having worker-like females: said of certain ants.

ergatoid (er'ga-toid), n. and a. [Gr. $\epsilon\rho\gamma\dot{\alpha}\tau\eta\varsigma$, a worker, + $\epsilon\dot{\iota}do\varsigma$, form.] I. n. A wingless although sexually competent ant of either sex. The females are really secondary queens. Cambridge Nat. Hist., VI. 140.

II. a. Having the characteristics of an ergatoid.

ergatomorphic (er 'ga - tō - môr ' îk), a. [Gr. έργάτης, a worker, + μορφή, form, + -ic.] Of or pertaining to ergatomorphism; having the appearance of a worker-ant.

ergatomorphism (er ga-to-mor fizm), n. [ergutomorph-ic + -ism.] The resemblance of certain male and female ants to workers, through a failure to develop the wings and their musculature.

erg-nine (erg'nin), n. A practical unit of work or energy equal to 1 × 109 ergs. See erg-ten. [Rare.]

ergogram (er'gō-gram), n. [Gr. $\ell\rho\gamma\sigma\nu$, work, $+\gamma\rho\delta\mu\mu\alpha$, anything written.] A record of muscular work; a tracing obtained by means of the ergograph. See *ergograph.

The ergogram pictures a very specific form of fatigue and shows a very wide range of individual differences.

G. S. Hall, Adolescence, L 150.

ergograph (er'gō-grāf), n. [Gr. εργου, work, + γράφειν, write.] An instrument for recording muscular work; a recording dynamometer or ergometer: used especially in the study of muscular fatigue. The work recorded by the ergographs ordinarily employed is that done by a single elinger pressing against a spring or pulling against a weight. In Mosso's instrument, the earliest form of the ergograph, there are three principal parts: the padded arm-rest, with arm-straps and brass tubes which hold the unused fingers in position; the weights, attached to a cord which passes over a pulley to a finger-cap adjusted to the lifting finger; and the recording carriage, which moves between metal guides with the movement of finger and spring, and carries a writing-point by which the ergogram or work-record is traced upon the smoked surface of a kymograph drum. An ergograph of this type is termed a weight ergograph. In other forms of the instrument, the compression of a spring replaces the pull-up of the weight: pring ergographs have been devised, for example, by Cattell and Binet. In yet other forms, among which Meumann's ergograph may be mentioned, there is no graphic record; the recording carriage and kymograph are replaced by a work-adder.

This greatly increased range of individual variation in or ergometer: used especially in the study of

This greatly increased range of individual variation in early puberty was no less marked in vital capacity and in resistance to fatigue as tested by the ergograph.

G. S. Hall, Adolescence, II. 151.

ergographic (er-gō-graf'ik), a. [ergograph + -ic.] Relating to, or obtained by means of, the ergograph.

He studied the effect on the ergographic curve of drinking-water, and of the injection of cocaine and caffeine.

Stud. Yale Psychol. Lab., VIII. 104.

ergology (er-gol'ō-ji), π. [Gr. εργου, work, + -λογια, ⟨λέγειν, speak.] Physiology and psychology considered dynamically, as the performance of work.

gometric (er-go-met'rik), a. Of or pertaining to the ergometer or the results shown by it; recorded or furnished by the ergometer: as, an ergometric diagram; ergometric measurements.

ergonomy (er-gon'ō-mi), n. [Gr. ἐργον, work, + νόμος, distribution.] Physiological division of labor. Haeckel (trans.), Wonders of Life,

ergastoplasmic (ér-gas-tō-plas'mik), a. Of or pertaining to ergastoplasm. Nature, March 12, 1963, p. 455.
ergastulum (ér-gas'tū-lum), n.; pl. ergastula (lä). [L., an accommodated form (as if dim.) of an Italian Gr. *ἐργαστρον, ⟨Gr. ἐργάζεσθα, work, labor: see *ergastic.] In Rom. antiq., a prison for slaves attached to a Roman villa or farm; a house of correction.
ergatandrous (èr-ga-tan'drus) - το sample (trans.), Wonders of Life, p. 35.
ergophobia (ér-gō-fō'bi-š), n. [NL., ⟨Gr. ἐργον, work, + -φοβια, ⟨φοβεῖν, fear.] A morbiola aversion to labor. Compare *ergastophobia. N. Y. Times, Oct. 17, 1903.
ergophobia (ér-gō-fō'bi-š), n. [NL., ⟨Gr. ἐργον, work, + -φοβια, ⟨φοβεῖν, fear.] A morbiola aversion to labor. Compare *ergastophobia. N. Y. Times, Oct. 17, 1903.
ergophobia (ér-gō-fō'bi-š), n. [NL., ⟨Gr. ἐργον, work, + πλάσμα, anything formed.] The active protoplasm which arises from the active protoplasm which arises

taining to or derived from ergot.—Ergotinic acid, a poisonous substance found in ergot, but probably not concerned in the production of the clinical picture of ergotism.
ergotism ², n. 2. Logical reasoning; ratiocination.

The ratiocination or ergotism of the logicians is only one kind of reasoning and one little used by the ordinary mind.

L. F. Ward, Pure Sociol., p. 462.

ergotization (ér'gō-ti-zā"shon), n. [ergotize +
fected kernels are enormous
ation.] The act or process of affecting with the
minating spore (enlarged). poison of ergot.

a, Corn ergot (Ustilage Zea),

ergotol (er'gō-tōl), n. [ergot + -ol.] A liquid preparation of ergot two and a half times as strong as the United States Pharmacopæia fluid extract.

fluid extract.

Erian, a. II. n. In geol., a major group of geological units comprising the Marcellus, Hamilton, Genesee, Portage, and Chemung divisions as used by the original New York geologists. The term was applied by Dawson to the entire Devonian system as represented in New York and Canada as a more appropriate term, but it is now restricted to that part of the Devonian which is represented by the Marcellus and Hamilton shales.

Ericales (er-i-kā'lēz), n. pl. [NL. (Lindley, 1833), < Erica + -ales.] An order of dicotyledonous sympetalous plants characterized by regular flowers, usually free stamens as many or twice as many as the lobes of the corolla,

twice as many as the lobes of the corolla, and a compound ovary. It embraces 8 families, of which Ericaces is the most important. See Diagrams cess and Epacridaces.

cest and Epacridacest.

erichthoid (e-rik'thoid), a. [erichthus + -oid.]

Of or pertaining to an erichthus: as, an erichthoid larva.

erichthus (e-rik'thus), n. [NL., irreg. \langle Gr. $\dot{\eta}\rho\iota$, early, $+i\chi\theta\dot{\nu}c$, fish.] A late larval stage of a stomatopodous crustacean, as the man-tis-shrimp, in which the full number of seg-ments and of limbs of the adult animal is reached.

ericineous (er-i-sin'ē-us), a. Same as erica-

ericinol (e-ris'i-nōl), n. [eric(olin) + in² + i-ol.] A colorless, volatile, oily compound, C₂₀H₂₆O, prepared by the action of dilute acids on ericolin. It turns brown in the air. ericolin (e-rik'ō-lin), n. [L. erica, heath, + in²]. A very bitter, brown, resinous compound, C₂₄H₅₆O₂₁, found in several plants of the heath family, in Arctostaphylos Uraursi, and in Ledum palustre. ericophyte (e-rik'ō-fit), n. [L. erica, heath, + Gr. φντόν, plant.] In phytogeog., one of a class of plants, typified by the genus Erica, which are adapted to live on the soil of heaths and peat moors. Encyc. Brit., XXV. 432. Ericsson gun. See *gun.

Ericymba (er-i-sim'bā), n. [NL., ⟨Gr. ἐρ·, much·, + κὐμβη, a cup, bowl.] A genus of small minnows found in the Mississippi valley, distinguished by the silvery mucous cavites

distinguished by the silvery mucous cavities on each side of the head. E. buccata is the common species.

Erie blue, Erie Canal china, Erie clay. See *blue, etc.
erikite (er'i-kit), n. [Named after Erik the
Red, the discoverer of Greenland.] A silicate
and phosphate of the cerium metals and so-

occurs in complex orthorhombic crystals of a

brownish color, in southern Greenland.

erinaceine (eri-nā'sē-in), n. A hedgehog of the subfamily Erinaceinæ.

erinite (ē'rin-īt), n. [Erin + -ite².] A basic copper arsenate occurring in green mammillary crystalline forms: from Cornwall, but a carliar approach to serve from Laborat bases. earlier supposed to come from Ireland, hence he name.

protoplasm which arises from the achromatic portion of the germinal vesicle of the egg and produces, wholly or in part, the first polar spindle. Davidoff, 1889.

ergosterin (er-gos'te-rin), n. [ergo(t) + Gr. $\sigma r \epsilon \rho \epsilon \delta c$, solid, +-in².] A colorless compound, $C_{26}H_{40}O.H_{2}O$, contained in ergot of rye. It crystallizes in pearly leaflets or in pointed needles, melts at 154° C., and boils at 185° C. under 20 millimeters pressure.

the name.

Erlobotrya (er'i-ō-bōt'ri-ā), n. [NL. (Lind-lev, 1821), in allusion to the lanate inflorescence, $\langle Gr. \epsilon \rho \iota \sigma \rangle$, wood, $+ \beta \delta \tau \rho \iota \sigma \rangle$, a bunch of grapes.] A genus of plants of the family M_{2} cemose-paniculate inflorescence covered with woolly bark thick 5-toothed calyx, crenulate petals, and 3-5 seeds cut in each compartment of the fruit. There are about 10 species, natives of eastern Asia. The loquat, Briobotrya Japonica (Photinia Japonica of Gray), sometimes errors.



ously called Japanese plum and Japanese mediar, is practically the only representative of this genus grown in the United States. It is hardy in the Gulf States, where it is grown for the small, acid, yellow, plum-like fruits. The flowers are white and are borne in terminal clusters late in the season; the fruits mature in the following

(er"i-ō-kā-lā 'shius), eriocaulaceous Of, pertaining to, or having the characters of the plant family Eriocaulacese.

eriocome (er'i-ō-kōm), n. [NL. eriocomus, ζ Gr. εριον, wool, + κόμη, hair.] A woolly-haired person: a member of a division of mankind, the eriocomi, characterized by fleecy hair, like that of the Melanesians and negroes. Deni-

ker, Races of Man, p. 40.

eriocyanine (er'i-ō-si'a-nin), n. [Gr. εριον, wool, + cyanine.] An acid coal-tar color of the triphenylmethane carbinol type. It dyes wool a

bright blue in an acid bath.

erioglaucine (er'i-ō-glâ'sin), n. [Gr. εριον, wool, + γλανκός, greenish blue, + -ine².] An acid coal-tar color of the triphenylmethane type. It dyes wool and silk greenish-blue shades in an acid bath.

shades in an acid bath.

eriometer, n.—Young's eriometer, an instrument used in measuring the diameter of the rings of color seen when a bright light is examined through a mass of small particles or fine fibers. It consists essentially of two glass plates between which the fibers are placed and an aperture in a sliding-screen through which the eye may view the bright light. If the angular diameter of the colored ring is observed a numerical table gives the corresponding linear diameter of the particles. A corresponding graduation may be inscribed on the instrument so that the numerical tables need not be used.

eriometric (er'i-ō-met'rik), a. Of or pertaining to an eriometer; obtained by the eriometer. ing to an eriometer; obtained by the eriometer.

—Young's eriometric scale. In the eriometer, as constructed by Young, the first red-and-green ring is made to cover a given circle by moving the sliding-tube to and fro, and an index shows the diameter of the particles. On the arbitrary scale used by him, 1 is equivalent to a diameter of 0.00003 of an inch, and the other scale numbers represent simple multiples of these: 3, the size of the particles observed in a thin layer of milk; 8.5, the spores of Lycoperdon boxista; 32, lycopodium seed or spores; 46, diameter of coarse wool.

erionite (er'i-on-it), n. [Irreg. < Gr. εριον, wool, + -ite².] A hydrated silicate of aluminium, calcium, sodium, and potassium, occur-ring in aggregates of wool-like fibers in cavities in a rhyolite tuff: found at Durkee, Oregon.

ties in a rhyolite tuff: found at Durkee, Oregon.
eriophorous (er-i-of'ō-rus), a. [Gr. ἐριοφόρος,
wool-bearing, ⟨ ἐριον, wool, + - φορος, ⟨ φέρειν,
bear.] Wool-bearing; cottony; flocculent.
eriophyllous (er-i-of'i-lus), a. [Gr. ἔριον, wool,
+ φίλλον, leaf.] Having woolly leaves.
Eritrean (ā-rē-trē'an), a. [It. Eritrea + -an.]
Of or pertaining to the Italian Red-Sea colony
of Eritrea: as, Eritrean currency; Eritrean
defenses

defenses.

erizo (ā-rē'thō), n. [S. Amer. Sp., so named from the prickly, bur-like fruit, < Sp. erizo, < L. ericius, hedgehog. See urchin.] In Venezuela and Colombia, the tibourbou, Apeiba Tibourbou.</p> See *tibourbou.

erl, n, A simplified spelling of earl.
erlan (er'lan), n. [Erla, Crandorf, Saxony, -an.] In petrog., a fine-grained metamorphic rock composed chiefly of augite, with some feldspar, quartz, and other minerals. Also called (in German) erlanfels. Breithaupt.

erly, adv. and a. A simplified spelling of early. erm. In her., an abbreviation of ermine. ermin, n. and v. t. A simplified spelling of

ernest, n., a., and v. t. A simplified spelling of earnest

Ernestine order. See *order.

Ernogrammus (er'nō-gram'us, n. [NL., ζGr. ερνος, a sprout, + γραμή, a line.] A genus of blennies found in Japan, remarkable for the branching lateral lines.

erodent, n. II. a. Producing erosion; erosive. erodible (ē-rō'di-bl), a. [erode + -ible.] In geol., yielding to erosive action; subject to the de-

structive processes of surface agencies.

Eros, n. S. In astron., No. 433 of the asteroid group, discovered photographically by Witt, at Berlin, in 1898, and for a time provisionally re-Berlin, in 1898, and for a time provisionally referred to as D. Q. Its orbit is much smaller than that of any other minor planet, its mean distance from the sun being less than that of Mars. Its period is 643.11 days. At times it can approach the earth within about 13,000,000 miles (nearer than any other member of the solar system), and thus furnishes perhaps the most precise of all methods for finding the solar parallax. At these rare approaches it may nearly reach the limit of naked-eye visibility, but it is usually observable only in large telescopes, its diameter being not more than 15 or 20 miles. At certain times there are regular variations in its brightness from which an axial rotation in 5 hours 16 minutes is interred.

erotopathic.

errancy (er'an-si), n. The condition of errancy errancy (er'an-si), n. Errancy (er'an-si), n. The condition of errancy (er'an-si)

erosible (ē-ro'si-bl), a. [L. erosus, pp. of ero-

dere, erode, + -ible.] Capable of being eroded: as, an erosible rock.

In some parts the tufa is traversed by vertical veins of a harder and less easily erosible rock. Geog. Jour. (R. G. S.). X. 478.

a narder and less easily erosible rock.

Geog. Jour. (R. G. S.), X. 478.

erosion, n.—Cycle of erosion. See *cycle!—Erosion column. See *column.—Glacial erosion, the erosion produced by glaciers and subglacial streams. The efficacy of this process has been much discussed, but its importance is coming to be more and more accepted by geologists. See corrie, combs, ford, hanging *valley, rock-basin.—Head erosion. Same as head-water *erosion.—Head-water erosion. Same as head-water *erosion.—Head-water erosion. Same as head-water *erosion.—Bead-water *erosion.—Same as head-water *erosion.—Bead-water *erosion.—Same as head-water *erosion.—Bead-water *erosion.—Same as distinct from streams. J. W. McGee, in Bulletin Geol. Soc. Amer., VIII. 88.—Table-land of erosion. See *table-land.—Unconformability by erosion. Flat strats forming a land area are often carved into valleys by running water. Without appreciable tilting they may then be depressed beneath the sea and the valleys may be filled with new sediments which do not differ in dip, although usually contrasted in kind with the old. The stratigraphic break between the two is called unconformability by erosion.—Wind-erosion, the wearing away and transportation of rock material by the wind.

He particularly commended to geologists the study of wind-erosion of now hardened by pressure and low terms.

of rock material by the wind.

He particularly commended to geologists the study of wind-erosion of snow hardened by pressure and low temperature. . . One could see the structure change from form to form under one's very eyes, and thus quickly gain such an insight into the processes of wind-erosion as, in the case of more stubborn rock, could only be obtained by prolonged study.

Athenæum, Dec. 7, 1901, p. 778.

erosional (ë-rō'zhon-al), a. [erosion + -all.] Of, pertaining to, or produced by erosion.

The terraced character of the outlet at Horseheads was also described, and the opinion expressed that the broader terrace is an evosional and not a constructional (floodplain) feature, and that it represents the outlet of Lake Newberry at its principal stage.

Science, Jan. 2, 1903, p. 26.

erosodentate (ē-rō'sō-den'tāt), a. [L. erosus, eroded, + dentatus, toothed.] Having irregular tooth-like projections; specifically, in bot.,

dentate with erose teeth.

erosodenticulate (ë-rô'sō-den-tik'ū-lāt), a.

[L. erosus, eroded, + denticulus, dim. of dens, tooth, + -ate¹.] Having small, irregular, tooth, + -ate1.] tooth-like points.

tooth-like points.
erotically (e-rot'i-kal-i), adv. In an erotic
manner or sense.
eroticism (e-rot'i-sizm), n. [erotic + -ism.]
The state or character of being erotic; undue prominence of sexuality or the sexual
emotions; in pathol., excessive sexual desires.
eroticist (e-rot'i-sist), n. One affected with eroticism.

eroticism.

eroticomania (e-rot'i-kō-mā'ni-ā), n. [NL., ζ
Gr. ἐρωτικός, erotic, + μανία, madness.] Same
as erotism (e-rot'ism), n. A condition marked

by erotic tendencies; eroticism.
erotogenic (er'ō-tō-jen'ik), a. Exciting sexual

erotology (er-ō-tol'ō-ji), n. [Gr. έρως (έρ sexual love, + -λογια, < λέγειν, speak.] [Gr. έρως (έρωτ study of the phenomena of sexual love.

These [unwritten codes of modesty] are like psychic garments with changing fashions, but erotology well understands that sometimes to ignore their existence is itself to win.

G. S. Hall, Adolescence, II. 118. erotometer (er-ō-tom'e-ter), n. [Gr. ἐρως (ἐρωτ-),

erotometer (er-ō-tom'e-ter), n. [Gr. ερως (ερωτ-), sexual love, + μετρον, measure.] A standard or gage of sexual love. G. S. Hall, Adolescence, Π. 132.
erotopath (e-rot'ō-path), n. [A back-formation from erotopathy.] One who is dominated by perverted sexual ideas. Alien. and Neurol., Feb., 1903, p. 72.

erotopathia (er'ō-tō-path'i-ä), n. [NL., \langle Gr. $t \rho \omega r$ ($t \rho \omega r$ -), sexual love, $+\pi d\theta \omega r$, disease.] Perversion of the sexual instinct. Amer. Jour.

Psychol., XIII. 328.
erotopathic (er'ō-tō-path'ik), a. Relating to or suffering from erotopathia; erotic. Alien. and Neurol., Feb., 1903, p. 75.
erotopathy (er'ō-top'a-thi), n. Same as *ero-

topathia.

erotopsychic (er'ō-top-sī'kik), a. $(\dot{\epsilon}\rho\omega\tau$ -), sexual love, + $\psi\nu\chi\eta$, mind.] Same as *erotopathic.

error, n. 8. In base-ball, a failure by one of the fielders to put out an opponent when he has the opportunity; a misplay by which a runner

secures a base.—Average error. See *method of average error.—Clock error. See *kclock?.—Defendant in error, a party to an action, either plaintiff or defendant in the court below, who is opposed to the plaintiff in error in the appellate court. See plaintiff in *merror.—Error of a planet, the difference between its observed and its calculated position.—Error of expectation, fatigue, habituation, in psychophys., variable errors, incidental more especially to work by the gradation methods. The error of expectation may make a change of judgment come either too soon or too late, according as the expectation is directed upon change or uniformity of the stimuli: the errors of fatigue and habituation delay the change of judgment beyond the normal point. The errors can be avoided by a fitting disposition of the series: in certain cases the error of expectation, may, perhaps, for all practical purposes, be eliminated by treating it as a constant error; that is, by repeating the series with reversal, and taking the average result.—Fechnerian time-error, in psychophys., a constant or systematic error, due to temporal arrangement, which may be eliminated by performing the experiment twice over,—once in the time-order ab, and once in the time-order ba,—and by averaging the result of the two experiments to a single value.—Law of frequency of error. Same as law of error. See error. 5.—Method of average error. See *method.—Plaintiff in error, in law, a party to an action, either plaintiff of defendant in the court below, who sues out in an appellate court, a writ of error, to review proceedings upon which the error is alleged.—Probable error of an event. See *coeficient of variability.—Space error, in psychophys., a constant or systematic error, due to spatial arrangement, which may be eliminated (like the Fechnerian time-error) by repeating the experiment with reversal of spatial conditions, and averaging the two results.—Station error, in geod.

—Probable error of an event. See *coeficient of variability.—Space error, in psy

error (er'or), v. t. In law, upon an appeal, to reverse the judgment or other determination of the court below, on account of error in its proceedings. [Rare.]

ersæiform (èr-se'i-fôrm), a. [NL. Ersæa (†) + L. forma, form.] Resembling or having the structure of the Ersæidæ; composed of three

structure of the Ersæiaæ; composed of three medusoids, a sterile, a fertile, and a special nectocalyx. Compare *eudoxiform.
ersæome (er-sē'om), n. [Gr. ἐρσαίος, dewy (< ἐρση, dew), + -ome.] One of the two main forms of cormidium in hydrozoans, consisting typically of a hydrophyllium, a gastrozoid with the correct of the compare medusoid generally consisting the compare of the corporate of the compared typically of the compared ty a tentacle, one or more medusoid gonophores,

a tentacle, one or more medusoid gonophores, and generally a nectocalyx.

erthen, erthling, erthly. Simplified spellings of earthen, earthling, earthly.

erubim (e-rö'bēm), n. pl. [Heb. 'erūbīm, pl. of 'erūb, mixture, combination.] Among the Jews, certain devices to get around the strict observance of the Sabbath rules, when circumstances make such observance difficult or impossible. The strict follower of rabbutes limited to a strict follower of rabbutes and a strict follower of rabbutes are strictly as a strict follower of rabbutes are strictly as a strict follower of rabbutes are strictly as a strictly Stances make such observance difficult or impossible. The strict follower of rabbinical injunctions must not go out on the Sabbath beyond a certain distance. In order to establish the legal boundaries the rabbis have ordained that certain eatables may be deposited beyond the limit on the day preceding the Sabbath or feetival, so as to make it appear that the place where the food is deposited is one's domicile, extending thereby the limit for one's movements.

Erucæformia (e-rö-sē-fôr'mi-ä), n. pl. [NL., erroneously for *eruciformia, neut. pl. of *eruciformis, < eruca, a caterpillar, + forma, form.]

A group of flies of the family Tipulidæ, having caterpillar-like larvæ: supposed to be the most primitive of existing Diptera. Phala-

most primitive of existing Dipleta. Findle-crocera is an example.

erucic (e-rö'sik), a. [L. eruca, a sort of colewort.] Noting an acid, a colorless compound, C₂₂H₄₂O₂, contained, in combination with glycerol, in white and black mustard-seed oil. It crystallizes in long slender needles, melts at 33-34° C., and is readily converted into the isomeric brassidic acid.

erucin (e-rö'sin), n. [eruc(ic) + $-in^2$.] The glycerin ester of erucic acid, found in rapeseed oil.

erugatory (e-rö'ga-tō-ri), a and n. [NL. *eru-gatorius, < L. erugare, free from wrinkles, < e, out, + ruga, wrinkle.] I. a. Having the property of removing wrinkles.

II. n. A remedy used to eradicate wrinkles. eruption, n.— Cone of eruption. See *cone.— Massive eruption, the protrusion of lava without the formation of a volcanic cone. Compare *fissure-eruption. Geikie, Text-book of Geol., p. 342.— Subaërial eruption, outbreaks of lava or tuff upon the land, as contrasted with those beneath the sea.

Eruptive center, vein. See *center¹, *vein.
Erypps (er'i-ops), n. [NL., (†) irreg. < Gr. ἐρύειν,
draw out, + ὑψ, face.] A genus of stegocephalian reptiles from the Permian rocks of North America, having an elongated triangular skull with somewhat tapering snout, relatively small indistinct sutures.

erysipeloid (er-i-sip'e-loid), n. and a. [erysipel-as + -oid.] I. n. A chronic inflammation of the skin resembling erysipelas, occurring sometimes in persons who have been brought into contact with the skins of wild animals,

into contact with the skins of wild ammais, either living or recently dead.

II. a. Resembling erysipelas.

Erysiphaces (er'i-si-fā'sē-ē), n. pl. [NL., ⟨Erysiphe + -aces.] The family of fungi typified by the genus Erysiphe. See Erysiphes.

Erythea (er-i-thē'ā), n. [NL. (Watson, 1880), ⟨Gr. Ερίθεια, one of the Hesperides.] A genus of nalms. They have fan-shaped leaves, slender, naked of palms. They have fan-shaped leaves, slender, naked trunks, perfect flowers in large, decompound panicles, and for fruit a black globose drupe. There are two species, E. armata, from Lower California, and E. edulis, a native of Guadalupe Island, off the western coast of Mexico. Both species are cultivated out of doors in favored localities of southern California.

erythran (er 'i-thran). n. [Gr. ἐρυθρός, red, + -an.] A colorless liquid compound,

HOCHCH2OCH2CHOH,

prepared by the long boiling of erythrol with dilute sulphuric acid. It boils at 154-155° C. under 18 millimeters pressure.

under 18 millimeters pressure.

erythrarsin (er-i-thrär'sin), n. [Gr. $i\rho\nu\theta\rho\delta\varsigma$, red, + ars(enic) + $-in^2$.] A red pigment, $C_4H_{12}O_3As_6$, formed, in very small quantity, by the oxidation of cacodyl.

erythrasma (er-i-thras'mä), n. [NL., \langle Gr. $i\rho\nu\theta\rho\delta\varsigma$, red, + $-a\sigma\mu a$, a termination.] A contagious skin disease, running a chronic course, des the pressure of a prographle pressite. due to the presence of a vegetable parasite Microsporon minutissimum.

erythrin, n. 3. A coal-tarcolor of the xanthene type, prepared by the methylation of cosin. It dyes silk a bluish red with a red fluorescence.

Also called primrose.—Erythrin X, an acid coal-tar color. Same as *ponceau 5R.

erythrism, n. 2. In anthrop., redness of hair, generally combined with light complexion.—3. In zool., the assumption of red in animals, in place of their ordinary coloration.

Erythrism is particularly common among the Mungooses and is responsible for a large number of the untenable species which have been formed in that group.

Proc. Zool. Soc. London, 1886, p. 77.

erythroblast, (e-rith'rō-blast), n. [Gr. ἐρυθρός, red, + βλαστός, germ.] One of the colored amosboid cells found in the marrow of the bones and supposed to give rise to the red blood-corpuscles

erythroblastic (e-rith-ro-blas'tik), a. Of or

pertaining to erythroblasts.

erythrocentaurin (e-rith'rō-sen-tâ'rin), n.

[Erythr(æa) centaur(ium) (see def.) + -in².] A

neutral, bitter, glucoside-like body, C₉H₁₄O₅,

formed in Centaurion Centaurium (Erythræa Centaurium of Persoon).

Centaurium of Persoon).

Erythrochæte (er'i-thrō-kō'tō), n. [NL. (Siebold and Zuccarini, 184ō), Gr. èpnôpo, red, + NL. chæta, bristle, Gr. χαίτη, mane. The allusion is to the color of the pappus in the type species.] A genus of plants of the family Asteraceæ, closely related to Senecio. There are about thirty species, chiefly Asiatic. One species, the leopardplant, a variety of E. Kæmpferi (Senecio Kæmpferi of De Candolle), is well known in cultivation. It is called by gardeners Farfugium. It is grown in the North as a foliage pot plant, and was at one time a favorite windowgarden subject. From Washington southward, it is hardy in the open. The plant has large orbicular-cordate leaves, blotched and spotted with yellow, white or rose-colored patches. A form with glaucous-green leaves edged with creamy white is known as niver-leaf.

erythrochroic (e-rith-rō-krō'ik), a. Of or relat-

erythrochroic (e-rith-ro-kro'ik), a. Of or relat-

ing to erythrochroism.

erythrochroism (e-rith-rō-krō'izm), n. [Gr. $i\rho\nu\partial\rho\delta\varsigma$, red, $+\chi\rho\delta a$, color, + -ism.] Same as erythrism.

as etythrism.

erythroclastic (e-rith-rō-klas'tik), a. [Gr. $\dot{\epsilon}\rho\nu\theta\rho\phi\varsigma$, red, $+\kappa\lambda a\sigma\tau \dot{\epsilon}\varsigma$, $\langle\kappa\lambda\dot{a}\nu$, break, +.ic.] Relating to destruction of the red blood-cells.

erythrocyte (e-rith'rō-sīt), n. [Gr. $\dot{\epsilon}\rho\nu\theta\rho\phi\varsigma$, red, $+\kappa\dot{\nu}ro\varsigma$, a hollow (a cell).] A red blood-corpuscle as distinguished from a white or colorless blood eryphysic (lengents)

cle as distinguished from a white or colorless blood-corpuscle (leucocyte).

erythrocytolysis (e-rith ' $r\bar{\rho}$ - $s\bar{i}$ -tol 'i-sis), n.

[NL., \langle Gr. $\epsilon\rho\theta\phi\rho\phi$, red, $+\kappa ir\sigma c$, a hollow (a cell), $+\lambda ir\sigma c$, dissolution.] Destruction of the protoplasm of the red blood-corpuscles.

erythrocytolytic (e-rith ' $r\bar{\rho}$ - $s\bar{i}$ - $t\bar{\rho}$ -lit'ik), a. Of or pertaining to erythrocytolysis or the destruction of red blood-cells by hemolysins.

erythrocytorrhexis (e-rith ' $r\bar{\rho}$ - $s\bar{i}$ - $t\bar{\rho}$ -rek'sis), n.

[Gr. $\epsilon\rho\nu\theta\rho\phi c$, red, $+\kappa ir\sigma c$, a hollow (a cell), $+\rho\bar{\eta}\bar{c}c$, rupture.] Rupture of an erythrocyte or red blood-cell.

round orbits, and rugose cranial bones with erythrocytoschisis (e-rith'rō-sī-tos'ki-sis), n. indistinct sutures.

[Gr. ερυθρός, red, + κύτος, a hollow (a cell), + σχίσις, cleaving.] Division by fission of a red blood-corpuscle

blood-corpuscle.

erythrocytosis (e-rith'rō-sī-tō'sis), n. [NL., ⟨Gr. ἐριθρός, red, + κίτος, a hollow (a cell), + -osis.] The formation of erythrocytes, or red blood-corpuscles.

erythrodermatitis (e-rith'rō-der-ma-tī'tis), n. [NL., ⟨Gr. ἐριθρός, red, + ὀέρμα(τ-), skin, + -itis.] Inflammatory redness of the skin.

erythrogen (e-rith'rō-jen), n. [Gr. ἐριθρός, red, + -⟩ενης. -producing.] 1. A fatty, green crystalline compound, said to occur in certain specimens of pathological bile.—2. A substance, possibly a chromogen, found in flowers. stance, possibly a chromogen, found in flowers. erythrogenic (e-rith-rō-jen'ik), a. [Gr. ἐριθρός, red, + -γενης, -producing, + -ic.] Producing or giving rise to red blood-corpuscles.
erythroglucin (e-rith-rō-glö'sin), n. [Gr. ἐρυθρός, red, + γλυκίς, sweet, + -in² (see *glucin).] Same as *erythrol.

erythrogranulose (e-rith-rō-gran' ū-lōs), n.
[Gr. εριθρός, red, + Ε. granulose.] A variety
of soluble starch which is colored red by iodine. rythrol (er'i-throl), n. [Gr. ερνθρός, red, +-ol.]
The correct name (by regulation) for erythrite.
erythroleinic (er'i-thro-lē-in'ik), a. [erythro-lein + -ic.] Noting an acid coloring-matter of unknown composition contained in archil or

erythrolysin (er-i-throl'i-sin), n. [erythrolysis + -in².] A lysin which is specially directed against the red corpuscles of the blood. The term hemolysin is more generally used, although strictly speaking it would comprise the leucolysins as well as the erythrolysins.

erythrolysis (er-i-throl'i-sis). n. [NL., < Gr. ερυθρός, red, + λύσις, dissolution.] The destruction of red cells by means of specific cytolysins. See also *erythrolysin.

See also *erythrotysin.
erythromelia (e-rith-rō-mē'li-ā), n. [NL., < Gr. ἐριθρός, red, + μέλος, limb.] A neurosis characterized by redness of the skin on the exterior surfaces of the extremities.
erythrophage (e-rith'rō-fāj), n. [Gr. ἐριθρός, red, + φαγείν, eat.] A phagocyte which destroys the red blood-globules.

the red blood-globules.

erythrophilous (er-ith-rof'i-lus), a. [Gr. ἐριθρός, red, + φιλεῖν, love, + -ous.] Readily staining in a red dye, such as erythresin: said of cells: opposed to *cyanophilous.

erythrophieine (e-rith-rō-flē'in), n. [Erythrophie-um + -ine².] A crystalline poisenous alkaloid, C28H43O5N (?), contained in the bark of Erythrophieum Guineense: a local anesthetic and heart-poison. It is used by the natives of and heart-poison. It is used by the natives of the west coast of Africa as an arrow-poison.

erythrophobia (e-rith-rō-fō'bi-ā), n. [NL Gr. ἐροθρός, red, + -φοβια, < φοβεῖν, fear.] morbid aversion to the color red. INL.. <

[Gr. ἐρυθρός, erythrophore (e-rith'rō-fōr), n. [Gr. ε, red, + -φορος, bearing, < φέρειν, bear.] red chromatophore of algæ.

erythropia (er-i-thro pi-a), n. [NL., \langle Gr. $\dot{\epsilon}\rho\nu$ - $\theta\rho\delta\varsigma$, red, $+\dot{\omega}\psi$ ($\dot{\omega}\pi$ -), eye.] Red vision: a condition in which all objects appear to be tinged with red.

erythroplate (e-rith'rō-plāt), n. In photog., a plate impregnated with erythrosin and used in the orthochromatic process.

the orthochromatic process.

erythropsia (er-i-throp'si-a), n. [NL., ⟨ Gr. εριθρός, red, + όψις, view.] Same as *erythropia.

erythropsin (er-i-throp'sin), n. [Gr. εριθρός, red, + όψις, view, + -in².] Same as rhodopsin.

erythroretin (e-rith-rō-rō'tin), n. [Gr. εριθρός, red, + ρητίνη, resin.] One of the resinous substances remaining after the crystalline substances have been removed from rhubarb extract. Buck, Med. Handbook, VI. 974.

erythrose (er'ith-rōs), n. [Gr. εριθρός, red, + -ose.] A sugar, HOCH₂CH(OH)CH(OH)CHO, belonging to the group known as tetroses. It

belonging to the group known as tetroses. It is closely related to erythrol.

erythrosiderite (e-rith-rō-sid'e-rīt), n. [Gr. εριθρός, red, + σιδηρίτης, of iron (see siderite).]

A hydrous chlorid of potassium and ferric iron, found as a rad deligner contraction to have found as a red deliquescent coating on the lava

found as a red deliquescent coating on the lava of Vesuvius after the eruption of April, 1872. **erythrosin, erythrosine** (e-rith'rō-sin), n. [Irreg. ⟨ Gr. έριθρός, red. + -in².] À coal-tar color of the xanthene type, the sodium or potassium salt of tetra-iodofluorescein. It dyes wool and silk bluish red or pink in a slightly acid bath. Also called erythrosin B, erythrosin D, eosin J, pyrosine B, and iodeosine B.—Erythrosin BB. Same as *phlozin P.—Erythrosin B, coal-tar color of the xanthene type, the sodium or potassium salt of di-iodofluorescein. It dyes wool and silk yellow, red, or pink in a slightly acid bath.

Also called dianthine G, pyrosine J, and iodeosine G.— Erythrosin plates, in photog., sensitized plates stained with the red organic dyestuff erythrosin to increase their sensitiveness to the longer wave-lengths of the spectrum. sensitiveness to the longer wave-lengths of the spectrum-erythrotoxin (e-rith-rō-tok'sin), n. [Gr. ἐρν-βρός, red, + Ε. toxin.] Same as *erythrolysin. erythrozinkite (e-rith-rō-zing'kit), n. [Gr. ἐρυθρός, red, + Ε. zinc, zink, +-ite².] Probably a manganesian variety of the zinc sulphid wurtzite: from Siberia.

erythrozym (e-rith'ro-zim), n. [Gr. ἐρυθρός, red, + ζύμη, ferment.] A peculiar ferment of the nature of an enzym occurring in madderroot. It possesses the power of decomposing rubian, yielding several products the most important of which is alizarin. The formula assigned to it by Schunck is C₅₆H₃₄N₂O₄₀ + CaO. erythruria (er-ith-rö'ri-ä), n. [NL., Gr. ἐριθρός, red, + οὐρον, urine.] The passing of red urine. Usually hematuria or hemoglobinuria.

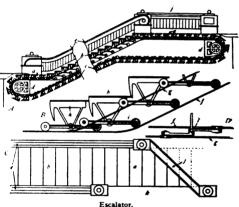
Esbach's albuminimeter. See *albuminimeter.

Usually hematuria or hemoglobinuria.

Bebach's albuminimeter. See *albuminimeter.

escalator (es'ka-lā-tor), n. [F. *escalateur, <
NL. *scalator, < ML. scalare, climb a stair:

see scale3, v.] A moving stairway. It is essentially a conveyer, employing two chains which form an endless belt that travels on a double track, passing over two large sheaves, one below the floor at the foot of the stairway and one under the floor at the head of the stairway. The links of the chains support the treads and risers of a flight of steps, each pair supporting one tread and one riser. When the tracks are level, as at the landings of the stairway, the treads and risers travel on two pairs of wheels, each pair moving on one track, and the treads form a continuous platform, the risers hanging below out of sight. Where the tracks are inclined they separate, one pair of wheels following the upper track and the other the lower track; the treads separate and the risers fill the spaces between the steps, thus forming a continuous traveling stairway. In operation the belt travels over the lower sheave up the stairway and, turning downward over the second sheave, returns with the treads and risers hanging below until they are again reversed in turning upward over the lower sheave. The two landings are thus traveling horizontal walks, and the stairway is a series of steps continually moving upward. The passenger steps upon the lower platform and stands still, the steps lifting him until the upper platform is reached, where he walks off upon the floor. At the side of the casing an endless hand-rail travels upward at the same speed as the stairway. Yery large escalators have two stairways, one carrying passengers up and the other down. A single escalator, having steps three feet wide, has a capacity of six thousand passengers an hour. See *conveyer.



Escalator. A: a, escalator operating as a horizontal apron-conveyer; b, escalator operating as an elevator; c, conveyer returning inverted and idle: d, d, sheaves over which conveyer turns, one being a live sheave giving motion to the conveyer; c, traveling hand-rail. B: f, lower track; g, upper track; h, frame supporting one tread and friser; t, four-wheel truck supporting frame, first pair on level position, others with loward pair of wheels on lower (inside) track, rear pair on upper foutside) track (See D, showing wheels and tracks.) C: a, treads traveling horizontally; b, treads ascending; f, preventer or guard, guiding passenger off to h, second-story floor; c, traveling hand-rail. D: f, lower rail; g, upper rail; t, track and wheels.

escalin (es-ka-lan'), n. [F., < D. schelling, E. shilling: see shilling.] A name of various shilling: see shilling.] A name of various coins: (a) A coin of Haiti, equal to 8 sols, and later to 15 sols. (b) A silver coin of Liège, equal to \$\frac{1}{2}\$ florin or 10 stivers. (c) A silver and billon coin, equal to \$\frac{3}{2}\$ stivets for a long period in the Low Countries. (d) A copper coin struck, by Russia, for Prussia, 1759-61. (c) A coin of Basel the one forty-fifth of a rix-dollar.

Escalloniaces (es-ka-1ō-ni-ā'sē-ē), n. pl. [NL. (Dumortier, 1829), \$\lefta Escallonia + -aces.\$\righta A family of dicotyledonous choripetalous plants of the order Rosales. tynified by the genus

of the order Rosales, typified by the genus Escallonia (which see), included by many authors in the Saxifragaceæ. It includes 25 genera of trees and shrubs, mostly natives of the southern hemisphere. Hea (which see) is the only genus which occurs in the United States.

in the United States.

escambron (es-käm-brön'), n. [Sp. escambron, buckthorn (Rhamnus sp.).] Aname of several plants armed with spines, especially the cat's-claw, Pithecolobium Unguis-cati, called escambron colorado; Pisonia aculeata, the cockspur; and Volkameria aculeata, called escambron blanco. [Porto Rico.]

prisoner. Mayne Reid.

escape, n. 11. The outlet or gate in an irrigation or other hydraulic work by which water may be permitted to escape from the canal, either automatically or under direct control.

escapee (es-kā-pē'), n. An escaped person: used particularly with reference to convicts who have escaped from penal settlements, or

have escaped and been recaptured.

have escaped and been recaptured.

escape-head (es-kāp'hed), n. A device by which an escape is operated. See *escape, 11.

escapement, n. 3. In pianoforte-making, that part of the action which provides that the hammer, after striking the string, shall instantly recoil, whether or not the key is released. The escapement is called double when the mechanism admits of giving a second blow without fully releasing the key.—Vertical escapement, a form of clock escapement in which the escape-wheel is on a vertical axis, the rest of the train having horizontal axes: also called the crownand-verge escapement, since the change from horizontal to vertical axes is usually made by a crown-wheel having teeth on the edge of the cylinder.

escapement-anchor (es-kāp'ment-ang'kor) n.

escapement-anchor (es-kāp'ment-ang'kor), n. In clockwork, the two arms of the detent or pawl which engage with the teeth of the pawl which engage with the teeth of the escape-wheel, so as to allow only one of its teeth to pass at each oscillation of the pendulum or balance-wheel. The shape given to these two arms so as to envelop a part of the arc of the escape-wheel resembles that of the fluxes of an anchor.

escape-wheel, so—
teeth to pass at each oscina...
dulum or balance-wheel. The shape given work oarms so as to envelop a part of the arc of the escape-wheel resembles that of the flukes of an anchor.

escape-pipe (es-kāp'pīp), n. An exhaustpipe; the pipe through which steam escapes from an engine or a blow-off valve.

escape-scuttle (es-kāp'skut'l), n. In shipbuilding, a scuttle which can be opened from a confined space such as a coal-bunker, to permit escape therefrom when the ordinary entrance is blocked.

escape-warrant (es-kāp'wor'ant), n. See
*warrant.

escape-way (es-kāp'wā), n. The channel

**escape-way (es-kāp'wā), n. The channel

**escape-way (es-kāp'wā), n. The channel

**escape-way (es-kāp'wā), n. The last

**escape-way (es-kāp'wā), n. The channel

**escape-way (es-kāp'wā), n. Th *warrant.

escape-way (es-kāp'wā), n. The channel through which the water is discharged from an escape. See *escape, 11.

escape-wheel (es-kāp'hwēl), n. The last wheel in the mechanism in clock- and watchwork by which the power of spring or weight is released or allowed to escape, by the catch and release of detent elements controlled by the timed swing of the pendulum or the oscillation of the balance-wheel.

escarole (es-ka-rōl'), n. Blanched endive: a

cillation of the balance-wheel.

escarole (es-ka-rōl'), n. Blanched endive: a salad vegetable. Also escarolla.

eschar, n. 2. Same as slough², 2.

escharine (es'ka-rin), a. Having the characters of, or resembling, the Escharina.

eschrolalia (es-krō-lā'li-ā), n. [NL. *æschrolalia, ⟨ Gr. aiσχρός, shameful, + λαλεῖν, speak.]

Obscenity in speech.

escigenin, æscigenin (ē-sij'e-nin), n. [æsci(nic) + L. -gen-, produce, + -ic.] A compound, C₁₂H₂₀O₂, formed from escinic acid, a glucoside found in horse-chestnuts. It is a crystalline powder insoluble in water.

a crystalline powder insoluble in water.

escinic, æscinic (ē-sin'ik), a. [L. æsc(ulus),
horse-chestnut, + -ine + -ic.] Obtained from
horse-chestnuts.—Escinic acid, an acid, C₂₄H₄₀O₁₂,
which is also a glucoside: found in horse-chestnuts.

escoba (es-kō-bā'), n. [Sp. escoba, broom, < L. scopa, broom.] A name, in many countries settled by the Spanish, of tough-stemmed undershrubs used for making temporary brooms for sweeping the floor or ground about a house, especially of species of Sida and plants resembling them. In Porto Rico, Sida acuta is called escoba blanca, or white broomweed; S. rhombifolia, escoba dulce, or sweet broomweed; and S. ulmifolia, escoba dulce, or sweet broomweed. These weeds are also called escobilla. See Sida. 1.

escobilla (es-kō-bē'tā), n. [Sp., dim. of escoba, broom.] Same as *escoba.
escobita (es-kō-bē'tā), n. [Sp. escobita, a little whisk-broom, dim. of escoba, a broom.] In California, one of two species of the plantgenus Orthocarpus, the name referring to the brush-like inflorescence. O. densiforus is the common escobita. (p. purpurascens the purple escobita; the latter is also called pink paint-brush. See *oul's-clover.

escolar (es-kō-lār'), n. [Sp. a scholar, a student; appar. first with reference to the black escolar, called also domine (see *domine): in allusion to the 'black robe.'] A Cuban name for a scombroid fish of elongate body and swift movements, especially the species Ruvettus pretiosus.

especially Craniolaria annua, belonging to the family Martyniacese, and in Mexico to a composite plant, Pinaropappus roseus, the roots of which are used medicinally and are offered for sale in the markets. In Spain the name is applied to Scorzonera Hispanica and Reichardia picroides. See black salsify, under salsify, and Scorzonera.

escribano (es-kri-bă'nō), n. [Sp., a writer, a notary: see acriven.] A Cuban name for the fish called in English halfbeak (Hemiramphus

escudo, n. 2. A gold coin of Chile, of the value of five pesos, equal to \$1.825. esculetic (es-kū-let'ik), a. [esculet(in) + -ic.]

Derived from esculetin.—**Esculetic acid**, an acid, $C_6H_2(OH)_3CH:CHCO_2H$, formed by bolling esculetin with a solution of barium hydroxid.

esculic (es-kū'lik), a. [escul-in + -ic.] Derived from esculin.—Rsculic scid. Same as **sepogenin.
esculotannic(es*kū-lō-tan*ik), a. [L. æsculus,
horse-chestnut, + E. tannic.] Tannic, and derived from the horse-chestnut.—<u>Reculotannic</u> acid, a variety of tannic acid or tannin having the composition C₂₆H₂₄O₁₂, and found in the bark, leaves, and other parts of the horse-chestnut.

treatment of horses for colic, and as a purge in herbivorous animals.

eshreen (esh-rēn'), n. [Ar. 'ishrīn, twenty, < 'ashar, ten.] A coin of modern Egypt, the 20-faddah piece.

Esmarch bandage. See *handage.
esmeralda (es-me-räl'dä), n. [Amer. Sp. use of Sp. esmeralda, emerald: see emerald.] A name applied by Spanish Americans to different fishes of the genus Gobius.

ent fishes of the genus Gobius.

esmeraldaite (es-me-ral'da-īt), n. [Esmeralda (see def.) + -ite².] A hydrated ferric iron, Fe₂O₃.4H₂O, occurring in black masses with vitreous luster: from Esmeralda county, Newards

esocolitis (es'ō-kō-lī'tis), n. [NL., < Gr. ἐσω, within, + κόλον, colon, + -itis.] Same as

a crystalline powder insoluble in water.

escinic, æscinic (ē-sin'ik), a. [L. æsc(ulus), horse-chestnut, + -ine + -ic.] Obtained from horse-chestnuts.—Escinic acid, an acid, Cg4H40012 which is also a glucoside: found in horse-chestnuts.

esciorcein, æsciorcein (ē-si-ôr'sē-in), n. [æs-cu(letin) + orcein.] A substance, CgH7NO5, resembling orcein. formed by the action of ammonia on para-esculetin.

escoba (es-kō'bā), n. [Sp. escoba, broom, < L. scopa, broom.] A name, in many countries settled by the Spanish, of tough-stemmed undershrubs used for making temporary

escitis.

colitis.

colopáyoc, esophagus, n part or as a whole.

cision of the esophagus, in part or as a whole.

cision of the esophagus (ē-sof'a-jism), n. [esophagus + -ism.] Spasmodic narrowing of the esophagus.

colopáyoc, esophagus (ē-sof'a-jism), n. [esophagus + -ism.] Spasmodic narrowing of the esophagus.

colopáyoc, esophagus, h part or as a whole.

cision of the esophagus, h part or as a whole.

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cision of the esophagus, h p

rise to the esophagus or gullet of the larva.

esophago-enterostomy (ē-sof"a gō-en-te-ros'tō-mi), n. A surgical operation for establishing direct communication between the esophagus and the small intestine, shutting out the stomach which may or may not be wholly or

partially excised.

partially excised.

esophagoplasty (ē-sō-fag'ō-plas-ti), n. [Gr. οἰσοφάγος, gullet, + πλαστός, ⟨ πλάσσειν, form.]

Plastic surgery of the esophagus.

esophagoscope (ē-sō-fag'ō-skōp), n. [Gr. οἰσοφάγος, esophagus, + σκοπεῖν, view.] An instrument which enables an observer to obtain

esophagoscopic, a. Relating to esophagos-

esophagoscopy (ē-sof-a-gos'kō-pi), n. [Gr. οἰσοφάγος, esophagus, + -σκοπια, 〈 σκοπεῖν, view.] Examination of the interior of the esophagus

esophagospasm (ē-sof'a-gō-spazm), n. Same

escapado (es-kā-pā'dō), n. [Sp.] An escaped escorzonera (es-kôr-thō-nā'rā), n. [Sp. escor- esophagostomy (ē-sof-a-gos'tō-mi), n. [Gr. prisoner. Mayne Reid. zonera, scorzonera.] A name in tropical οἰσοφάγος, gullet, + στόμα, mouth.] The estabescape, n. 11. The outlet or gate in an irri- America of several plants having fleshy roots, lishment of a permanent opening from the neck into the esophagus.

esophagotome (ë-sō-fag'ō-tōm), n. A kni used for the performance of esophagotomy.

esophagus, n.—Posterior esophagus, in certain gasteropods, as Triton, a narrow tube connecting the crop with the stomach.

with the stomach.

esophoria (es-\(\tilde{0}\)-[\(\tilde{0}'\)-[\(\tilde{0}'\)], n. [NL., \(\lambda\), \(\tilde{0}\), withir, \(+\digce\)-\(\theta\)-\(\theta\), \(\digce\)-\(\theta\)-\(\theta\), \(\digce\)-\(\digna\)-\(\digce\)-\(\digce\)-\(

convergence of the visual axes less pronounced than in actual squint or esotropia.

esophoric (es- $\bar{0}$ -for'ik), a. [\langle esophor-ia + -ic.] Relating to or characterized by esophoria.

Esopus grit. See *grit2'.
esotropia (es- $\bar{0}$ -tr $\bar{0}$ 'pi- $\bar{3}$), n. [NL., \langle Gr. $\bar{\epsilon}\sigma\omega$, within, + -r $\rho\sigma\sigma\sigma$ c, \langle $\tau\rho\dot{\epsilon}\pi\epsilon\iota\nu$, turn.] An exaggerated esophoria amounting to convergent squint.

espada (es-pā'dā), n. [Sp., a sword.] 1. A professional bull-fighter whose duty is to kill the bull with the sword. See also matador.— 2. The swordfish.

2. The swordish.

espagnolette (es-pän-yo-let'), n. [F., < espagnol, Spanish, + -ette.] A fastening for a double casement-window or light double door. A round rod reaching from top to bottom of the casement is fixed to the outer valve or fold. When both folds are shut the rod is turned upon itself, and hooks at the top and bottom take hold of fixed pins in the head and sill of the frame.

esparcet, n.—Palse or wild esparcet, Astragalus bisulcatus a common leguminous plant of the western



False or Wild Esparcet (Astragalus bisulcatus). One fourth natural size.

United States, congeneric with the principal loco-weeds, yet not only innocuous, but of growing importance as a forage-plant and capable of being made to grow densely like clover and alfalfa, so as to be cut as hay.

espec. An abbreviation of especially. Esperanto (es-pe-ran'to), n. [Name transferred to the language from the pseudonym of its inventor, Dr. Esperanto, whose real name is Zamenhof (b. at Bielostok, Russia). The is Zamenhof (b. at Bielostok, Russia). The pseudonym Esperanto is a word of the artificial language so called, meaning 'hoper' or 'hoping person,' being a noun (in -o) from the participial adjective (in -a) esperanta, hoping, present participle (in -anta) of the verb (in -i) esperi, to hope, < F. espérer, < L. sperare, hope: see esperance.] The name of an 'international' language constructed, like Volapük, by arbitrary reduction and manipulation of words and forms taken from Europeans languages and forms taken from European languages, ancient and modern, and the adoption of a simple and regular inflection. The general aspect of the language as printed is that of a shrunken composite of Latin, Spanish, and French, with a Polynesian spelling.

Plastic surgery of the esophagus.

BROPHAGOSCOPE (ē-sō-fag'ō-skōp), n. [Gr. οἰσοφάγος, esophagus, + σκοπεῖν, view.] An instrument which enables an observer to obtain a view of the mucous membrane of the esophagus.

BROPHAGOSCOPIC, a. Relating to esophagoscopy.

BROPHAGOSCOPY (ē-sof-a-gos'kō-pi), n. [Gr. οἰσοφάγος, esophagus, + σκοπεῖν, view.] In Spanish countries, a small thorn-bearing tree. In Uruguay and Argentina especially earling tree. In Uruguay and Argentina especially earling tree. In Uruguay and Argentina especially espenda for yellow flowers closely resembling the widely spendary spines. Iske many other trees of the mimosa family, its legumes are rich in tannin. They are known commercially as quirinca-pods (which see). It shares with A. Farnesiana the name aroma, from the aromatic fragrance of its flowers.

espino (es-pē'nō), n. [Sp. espino, a thorn-bush or thorn-tree, < espina, a thorn: see spine.] 1. Same as *espinilo.—2. A name applied in Spain to several species of hawthorn (Cratægus Oxyacantha, etc.) and of buckthorn (Rhamnus), and in tropical America to thorny mimosas (Acacia macracantha and others) and species of Fagara, including the prickly-ash (Fagara Clava-Herculis).

(Fagara Clava-Herculis).

esponja (es-pōn'hä), n. [Sp., sponge: see sponge.] In Porto Rico and Spanish America, the sponge-gourd. See Luffa.

espundia (es-pōn'di-ä), n. [Sp., an ulcer in horses.] The Bolivian name for a skin-disease, said to be a lupus, peculiar to the lower eastern valleys and lowlands of western South America. It is not contagious, but may become mostel through peculiar and evenesses. America. It is not contagious, but may become mortal through neglect and excesses. Many attribute it to the sting of an insect. Espy's dew-point method, rule, theory of storms. See altitude of a *cloud, *rule1, *storm.

storms. See altitude of a *cloud, *rule1, *storm.

essence, n., 7.—Within the last few years knowledge of the true chemical nature of the essences or essential oils, which occur in great variety in the vegetable kingdom, and to which the odors, tastes, and medicinal effects of many plants are due, has been greatly increased. Instead of single substances, these essences are found to consist of hydrocarbons, alcohols, aldehydes, and esters, often of special character and variously mixed with one another; and among the notable achievements of modern organic chemistry have been not only the successful study of these materials of natural origin, but also, in a number of cases, their artificial reproduction.—Essence de Boulogne, a trade-name for a solid bleaching material made by passing chlorin gas over crystallized carbonate of soda. Also known as chlorozone.—Essence of nannas. Same as ethyl butyrate (which see, under butyrate).—Essence of beef, the juice of beef, prepared in various ways for invalids.—Essence of cajeput. (a) An alcoholic solution of oil of cajeput. (b) The French designation for oil of cajeput.—Essence of girofie. Same as oil of cloves.—Essence of miaouli, the essential oil of the leaves of Melaleuca viridifora, from New Caledonia. It is a mixture consisting of terebenthene, eucalyptol, and unidentified terpene hydrocarbons, and is said to be analogous to oil of cajeput.—Essence of orange, a colorless dextrorotatory oil obtained from the peel of sweet oranges. It contains terpenes and other substances and has its rotatory power largely affected by changes of temperature.—Vinegar essence, vinegar of extra strength, containing as much as 12 or 14 per cent. of acetic acid: sometimes made by removing a part of the water of ordinary vinegar by evaporation. Also known as double vinegar.

Essenize (e-sē nīz), v. t.; pret. and pp. Essenizeled nor Essenizeled hour processors.

Essenize (e-se'niz), v. t.; pret. and pp. Essenized, ppr. Essenizing. [Essene + ize.] To teach, or incline toward, the doctrines and practices of the Essenes.

essential, a. 5. In geol., noting those minerals of any species of rock which establish its character and which must be mentioned in its definition: contrasted with *accessory. Geikie, Text-book of Geol., p. 89.—Essential graphs. See *graph.—Essential singular point. See *point1.

Essex (es'eks), n. A breed of black hogs, of small size, named from Essex, England, where the breed had its origin: valued chiefly for rapid growth and early maturity.—Essex lion.

essexite (es'ek-sit), n. [Essex county, Massachusetts, + -ite².] In petrog., a phanerocrystalline rock intermediate in composition between diorite, gabbro, and nephelite-syenite. It contains labradorite and some orthoclase, occasionally nephelite, together with pyroxene, barkevikitic hornblende, olivin, and blotte. Sears, 1891.

essexitic (es-ek-sit'ik), a. [essexite + -ic.] In petrog., having the chemical or mineral characters of essexite.

essoinee (e-soi-nē'), n. [A.F. essoignié, pp. of essoignier: see essoin, v.] In law, a person whose excuse for absence from court is allowed.

essoin-roll (e-soin'rol), n. In law, a list of the essoins and the date to which the court is

. estab. Abbreviations of established.

establish, v. t. 8. In systematic biol., to give technical publication to; fix by publication in the nomenclatorial sense. See *publication, 5.

To establish a suit. See *suit.

estadia (es-tă-dē'ă), n. [Sp. estadia, < estar, be, < L. stare, stand.] In Sp. law, the period during which the charterer of a vessel, or the party who is bound to receive the cargo, must pay demurrage by reason of his delay in carry ing out his contract.

estanco (es-tăn'kō), n. [Sp., a monopoly, a monopoly store.] A place or store where articles included in the government monopolies are sold. [Philippine Is.]

OSTAte, n.—Customary estate, in Eng. law, an estate which originated and existed according to the custom of the manor in which it was held.—Dominant estate. Same as dominant tenement (which see, under dominant).

-Estate by dower, the estate in real property which a widow takes by dower. See dower?, 2.—Fast estate, a term sometimes used for real estate.—Real estate. See real1.—To enlarge an estate. See **enlarge*.

ester, n.—Acetoacetic ester. See *centarye.

ester, n.—Acetoacetic ester. See *acetoacetic.—

Ester number, in chem., the quantity of a neutral fat or oil required to saponify a fixed quantity of an alkali. If there is no free fatty acid present, the ester number is the same as the *soponification **equivalent. In the case of a natural fat which contains both neutral fat and free fatty acid, the ester number is the difference between the total saponification equivalent and the saponification equivalent of the free fatty acid. Also known as *cher value.—Lauric ester, an ester of lauric acid. Sometimes the term is used, specifically, for the ethyl ester, CH3(CH2)10COOC2H5, prepared by the action of ethyl alcohol and hydrochloric acid on lauric acid. It melts at -10°C. and boils at 260°C.—Ortho ester. See *archoester.—Orthocarbonic ester, a colorless liquid, C(OC2H3)4, prepared by the action of sodium ethylate on trinitro-chloromethane (chloropicrin). It has an aromatic odor and boils at 158-159°C.

esterification (ester-i-fi-kā'shon), n. In or-

esterification (es-ter-i-fi-kā'shon), n. ganic chem., the preparation of esters (ethereal salts) from alcohols and acids or certain of their derivatives. If the free alcohol and acid are employed, water is also formed, the reaction being represented thus: $ROH + HOCOR' \rightarrow ROCOR' + H_2O$.

The acid esters of mono. di., tri., and tetra-methyl succinic acids have been prepared and their esterification constants and electric conductivities determined.

Rep. Brit. Ass'n. Advancement of Sci., 1902, p. 586.

esterify (es-ter'i-fi), v. t.; pret. and pp. esterified, ppr. esterifying. [ester + -i-fy.] To form an ester from. Jour. Phys. Chem., May, 1905,

Esth. An abbreviation of Esther. See Century Cyclopedia of Names.

esthesioblast, æsthesioblast (es-thē'si- $\bar{\phi}$ -blast), n. [Gr. $ai\sigma\theta\eta\sigma\iota\varsigma$, sensation, $+\beta\lambda a\sigma\tau\dot{\varsigma}$, germ.] In neurol., a sensory cell in the integument of an animal, which serves to collect sensations from the external world.

esthesiogenic, a. 2. Producing or conditioning sensation or perception: as, an esthesiogenic agent, esthesiogenic factors.

esthesiogenous (es-thē-si-oj'e-nus),

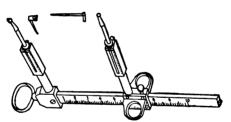
during the summer.

Esthesiogenic.

esthesiomania, esthesiomania (es-thē-si-ōesthesiomania, esthesiomania (es-thē-si-ōmā/ni-\bar{e}), n. [NL., \(\) Gr. alothou, \(\) feeling, +

\(\) \(esthesiomania, æsthesiomania (es-thē'si-ō-mā'ni-ā), n. [NL., < Gr. αἰσθησις, feeling, + μανία, madness: see mania.] A moral sense

esthesiometer, n. The instrument is made in a great variety of forms, all based, however, upon the simple com-



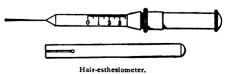
Griesbach's Dynamometrical Esthesiometer.

pass pattern. In certain recent instruments the points are attached to rods which press against spiral springs inclosed in the metal tubes which form the legs of the compasses, and a scale is marked upon the front surfaces of the tubes. It is thus possible to read off the amount of pressure exerted in any given application of the points to the cutaneous surface; and the esthesiometer may be used not only to measure the limen of dual impression equivalences of tactile extent, etc., but also to test the pressure-sensitivity, the depth of sleep, etc. See the extract,

One of the latest departures of the experimental psychologist consists in prodding people with a pointed instrument when they are asleep to find out how much excitation is required before they begin to move, and how much it takes to wake them up. . . The instrument employed is called a Griesbach esthesiometer, . . and may be used with either a sharp or blunt point. It measures the stimulus necessary to induce subconscious reaction, and that applied at the waking-point.

Nature, June 5, 1992, p. 187.

Hair-esthesiometer, in psychophys., an instrument for the determination of the stimulus limen of



punctual pressure. The hair-esthesiometer, devised by M. von Frey, consists of a hair (human or horse-hair) set in a metal handle, and adjustable in length by a set-screw. When the length of hair has been found to whose stimulation a pressure-spot first responds, the

pressure constant of the hair is determined by means of a balance, and the limen is expressed in terms of gram-millimeters. E. B. Titchener, Exper. Psychol., II. i. 16. esthesiometric, æsthesiometric (es-thē-si-ō-met'rik), a. In psychol., pertaining to the esthesiometer or to its use: as, the esthesiometric compasses (the esthesiometer), the esthesiometric method.

esthetic, a. 5. In pathol., having sensation: as, "a patch of æsthetic skin." Philos. Trans. Roy. Soc. (London), ser. B, 1898, p. 64. estheticist, æstheticist (es-thet'i-sist), n. Same as esthetician.

same as exthetician.

estheticokinetic, æstheticokinetic (es-thet'i-kō-ki-net'ik), a. In physiol., relating to sensation and motion; both sensory and motor.

esthetology, æsthetology (es-thē-tol'ō-ji), n.

[Gr. αἰσθητός (see esthetic) + -λογια, < λέγειν, speak.] The science of esthetics, particularly in reference to the forms of art in different types of culture. J. W. Powell, in 18th An. Rep. Bur. Amer. Ethnol., p. xxvi.

Esthonycidæ (es-thō-nis'i-dē), n. pl. [NL. prop. *Esthonychidæ, < Esthonyx, the type genus, + -idæ.] A family of Tillodontia, comprising animals of moderate size, whose remains occur in the Wasatch, Lower Eocene, of the western United States. Like the other tillodonta, these animals resembled the rodenta, ungulates, and carnivores, having incisor teeth like rodenta, and molars suggesting those of ungulates. Cope, 1883.

estimator, n. 3. A weighing-scale adapted to

estimator, n. 3. A weighing-scale adapted to the estimating of the quantity of material in a gross (or other number) of articles by weighing a single article. A drop-forging or other article is placed on the scale-pan, and the sliding weight on the beam is moved until it balances the article, when it indicates, by the marks on the beam, the total weight of the desired number of the same kind of article.

estivation, n.—Indeterminate estivation, estivation in which the parts do not come into contact in the bud; open estivation.

estivator, estivator (es'ti-vā-tor), n. An animal which becomes and remains dormant during the summer.

Estonioceratida.

Estonioceratidæ (es-tō-ni-os-e-rat'i-dē), n. pl. [NL. Estonioceras (-at-) + -idæ.] A family of Lower Silurian tetrabranchiate cephalopods having coiled or curved shells with biangular section in youth and triangular section in later

estragol (es'tra-gol), n. [estrag(on) + -ol.] A colorless liquid, CH₃OC₆H₄CH₂CH: CH₂ contained in oil of estragon from Artemisia Dracunculus L. It boils at 215-216° C. and is used for flavoring pickles. for flavoring pickles. Also called paramethory-

estramazone (es-tram'a-zon), n. Same as stramazone.

Being eager to punish him, I made an estramazone. Scott, The Monastery, xxvii.

Estrangelo (es-tran'ge-lō), n. [Also estranghelo: Syriae estrangelo, 'gospel character.'] An an-cient form of the Syriae alphabet.

The brush of the Chinese determined the direction downwards and from right to left, as for painting. The ancient Syriac estranghelo was also written in the same way, but from left to right. Deniker, Races of Man, p. 142.

estrapado (es-tra-pā'dō), n. Same as strappado. estrapado (es-tra-pā'dō), n. Same as strappado.
estremadurite (es-tre-ma-dō'rīt), n. [Estrema-dura (see def.) + -ite².] Phosphorite or massive apatite, mineral calcium phosphate, as found in Estremadura, Spain.
estriate (ē-strī'āt), a. [NL. estriatus, < L. e., out, + striatus, striped.] Not striate; not possessing striæ: said of the surface of many insect sclerites. Annals and Mag. Nat. Hist., June, 1903, p. 606.
estronajo (es-trō-pā'hō), n. [Sp., a dish-cloth,

estropajo (es-tro-pa'hō), n. [Sp., a dish-cloth, Kestropajear, clean with a dry brush or rubber.]
In Porto Rico and Spanish America, the sponge-gourd. See Luffa.

Estuarine series. See *series.
esurience, esuriency (ē-sū'ri-ens, -en-si), **.
The state or quality of being esurient. Cole-

No pretext beyond the fact of esurience and the sense of ability is suggested for the villany of Subtle, Dol, and Face.

Swinburne, Ben Jonson, i. 40.

An abbreviation (a) of electric telegraph;

(b) [cap.] of English translation.

ta, n. 2. In elect., a symbol for coefficient of magnetic hysteresis. See magnetic hysteresis. et al. An abbreviation (b) of the Latin et alibi, 'and elsewhere.'

a-palm. n. Same as ita-palm.

eta-paim, n. Same as ita-paim.

Etcheminian (ech-e-min'i-an), n. [Etchemin, a river of Canada, also name of a tribe of Indians.] In geol., a subdivision of the rocks of the Canadian Atlantic, regarded by some American geologists as Precambrian and by others as correlated with the Lower Cambrian. others as correlated with the Lower Cambrian. It has a thickness greater than 1,200 feet, and is underlain by the Huronian and overlain by the Cambrian beds with Protolenus. Its characteristic fauna consists of Hyothithides, Entomostraca, small phyllocarids, and horny brachiopods, and it is claimed that the Olenellus of Lower Cambrian fauna has been found in it.

etching, n. 4. In photog., a plate, as of copper, coated with a substance sensitive to light,

which after exposure and development is subjected to the dissolving action of a chemical, such as nitric acid, which attacks the bare metal. - Typographic etching. See the extract.

The invention of Palmer's process called at first Glyphography, about the year 1844; this was afterwards perfected, and used to a considerable extent under the name of Dawson's Typographic Etching.

Encyc. Brit., XXIX. 411.

Zinc etching, in photog., any one of several reproduction processes in which a zinc plate is etched after having been subjected to photographic treatment. **Etclis** (et'e-lis), n. [NL., \langle Gr. $\ell\tau\ell\lambda\iota\zeta$, an un-



(From Bulletin 47, U. S. Nat. Museum.)

identified fish.] A genus of brilliantly colored fishes of the family *Lutianidæ*, allied to the snappers, but more elongate and swifter in

movement. The color is bright crimsom. E. oculatus occurs in the West Indies and is known there as eachucho; E. evurus is found in Hawaii. ethane (eth'an), n. [eth(er) + -ane.] A color-less, odorless gas, CH₃CH₃, found in illuminating gas and in crude petroleum, and prepared by the action of hydrogen on ethilore. pared by the action of hydrogen on ethylene, acetylene, or ethyl iodide, and by the action of water on zinc ethyl. It boils at -93° C. Also called methylmethane, dimethyl, and ethyl called hudrid.

ethelism (eth'el-izm), n. [Gr. ἐθέλ-ειν, be willing, +-ism.] A form of voluntarism. [Rare.] ethenic (ē-then'ik), a. [ethene + -ic.] Of or pertaining to ethene or ethylene.

ethenoid (eth'e-noid), a. [ethene + -oid.] In organic chem., having two atoms of carbon in the molecule doubly linked, as in ethylene, H_{C:C}

ethenyl (eth'e-nil), n. [ethene + -yl.] A triva-lent radical, CH₃C --.

ethenyi (eth'e-nil), n. [ethene + -yt.] A trivalent radical, CH₃C +-.

ether¹, n.—Aran's ether. Same as *ethylidene chlorid.

Compound spirit of ether. See *epirit.—Ether extract. Same as *ethered extract (which see, under ethered).—Ether value. Same as *ester number.—Fruitether, the trade-name of certain esters possessing fruity aromas, some of which occur in fruits. They are chiefly compounds of ethyl, butyl, and amyl alcohols with acetic, propionic, butyric, and valeric acids: for example, isoamyl-propionate, C₅H₁₁0COC₂H₅, has an odor of pineapple, and isoamylacetate, C₅H₁₁0COCH₃, that of pears. They are largely used for the manufacture of fruit-syrups, essences, etc.—Hydrodynic ether, ethyl bromide, C₆H₅Br.—Hydrodynic ether, a colorless ethereal fluid, C₂H₅CN, miscible with water, alcohol, and ether: because of its extremely poisonous nature not used in medicine.—Quiescent ether, ether the position of which in space is unaffected by the movement of bodies through it. In the theory of light, the luminiferous ether is supposed either to be carried along by bodies moving through space or to remain stationary and undisturbed by the motion of bodies. The ether of the latter hypothesis is called the quiescent ether.—Salicylic naphthyl ether.—Same as **etol.—Bypirit of vitriolic ether, the pharmaceutical name for ordinary ether. Also called sulphuric ether. The correct chemical term is diethyl ether.—Sulphur ether.—Same as *ethylidene chlorid.

Ptharaal smilmates. Same as conjugate *sulric ether. Ine consess.

- Sulphur ether. Same as this came as kethylidene chlorid.

Ethereal sulphates. Same as conjugate *sul-

etherene (ē'ther-ēn), n. [ether + -ene.] A little-used name for ethylene. Other synonyms are ætherin, æthylene, etherin, ethene, and elaule.

etherion (ē-thē'ri-on), n. [NL., ζ Gr. αἰθέριον,

neut. of αἰθέριος, of the ether: see ethereal.] A ethnize (eth'niz), v. i.: pret. and pp. ethnized, supposed new element announced by C. F. ppr. ethnizing. [Gr. εθνος, nation, + -ize.] Brush in 1898, and described by him as a gas Same as *ethnicize. of density only one-thousandth that of hydro-ethnobotanical (eth'nō-bō-tan'i-kal), a. Regen and having a much greater conducting power for heat, as present in the earth's atmo-sphere, and as perhaps extending throughout interstellar space. Sir W. Crookes has shown that etherion is probably nothing more than highly rarefied vapor of water.

etheromania (ē-ther-ō-mā'ni-ä), n. ΓGr. aiθήρ, ether (air), $+ \mu a v i a$, madness.] Addiction to the use of ether as an intoxicant.

etherous (ē'the-rus), a. [ether + -ous.] Of the nature of ether.

ethical, a.

sthical, a. 2. In a special sense, relating to medical ethics or in accord with the code of rules which guides physicians in their relations to one another and to their patients.—Ethical culture, dualism. See *culture, *dualism. ethician (e-thish 'ian), n. [ethic + -ian.] A student of ethics; a writer on ethics.

At a moment when ethicians . . . are coming to pereive the social bases of morality, one would not lay a traw in their way. Yet it is well to recognize that, after it is adid, ethics is more than a mere wing of sociology. E. A. Ross, in Amer. Jour. Sociol., May, 1903, p. 773.

ethicism (eth'i-sizm), n. [ethic + -ism.] Ethical quality or spirit; tendency to moralize.

The literature of those great men was . . . the Socialan graft of a Calvinist stock. Their faith . . . was Unitarian, but their art was Puritan. So far as it was imperfect . . . it had its imperfections—it was marred by the intense ethicism that pervaded the New England mind for two hundred years, and that still characterizes it. . . . They . . . pointed the moral in all they did.

W. D. Howells, in Harper's Mag., Nov., 1896, p. 867.

ethico-political (eth'i-kō-pō-lit'i-kal), a. Relating to both ethics and politics: as, the ethicopolitical system of Confucius.

cthidene (eth'i-dēn), n. [eth(er) + -id + -ene.]
Same as *ethylidene.
Ethiopian. I. a. 2. In anthrop., relating to the negroid race which inhabits Africa (Blumenbach).—3. In zoögeog., pertaining or belonging to the region constituted by the whole of Africa and Arabia south of the travia of Africa. Cancer, together with Madagascar, Mauritius, Bourbon, Rodriguez, and the Seychelles.

II. n. 3. In anthrop., one of the Ethiopian

ethmoid. I. a .- Ethmoid crest, fossa. See *crest,

II. n.— Lateral ethmoid in ichth., the prefrontal, a bone lateral to the ethmoid. Starks, Synonymy of the Fish Skeleton, p. 509.
ethmoiditis (eth-moi-di'tis), n. [ethmoid +

ethmoiditis (eth-moi-di'tis), n. [ethmoid + -itis.] Inflammation of the mucous membrane which lines the cavities in the ethmoid bone. ethmolysian (eth-mō-lis'i-an), a. [Gr. ήθμός, a strainer, + λύοις, opening, + -an.] In echinoids, having the pores of the water-vascular system and the plate in which they open extending backward until they separate the two restrockers. two posterolateral genital plates. Compare \star ethmophract.

ethmophract (eth'mō-frakt), a. [Gr. ἡθμός, a strainer, $+ \phi \rho \alpha \kappa \tau \delta_{c}$, $\langle \phi \rho \alpha \sigma \sigma \epsilon \nu, \text{ inclose.}]$ In echinoids, having the pores of the water-vascular aperture situated only in the right anterior corner of the apical system. Compare *****ethmolusian.

ethmophysal (eth-mo-fi'sal), n. [Gr. ηθμός, a strainer, + φυσα, a bellows, + -all.] In ichth., the nasal, a small lateral bone above the olfactory organ. Starks, Synonymy of the Fish Skeleton, p. 520.

ethmosphenoidal (eth'mō-sfē-noi'dal), a. [ethmoi(d) + sphenoid + -all.] Relating to the ethmoid and sphenoid bones: as, the ethmosphenoidal suture.

Ethnic psychology, psychopathology, race, society. See *psychology, etc. ethnicist (eth'ni-sist), n. [ethnic + -ist.] Same

as ethnologist.

ethnicize (eth'ni-siz), v. i.; pret and pp. ethnicized, ppr. ethnicizing. [ethnic + -ize.] To tend toward or favor ethnic or pagan ideas or

There were two errors which the new-born Christianity There were two errors which the new-born Christianity had to guard against, . . . a relapse into Judaism on the one side, and against a mixture with paganism and speculations borrowed from it, and a mythologizing tendency, on the other. Accordingly the earliest hereise, of which we have any trustworthy accounts, appear either as judaizing or as ethnicizing (hellenizing) tendencies.

K. R. Hagenbach (trans.) Hist. of Doctrines (revised by [Henry B. Smith, 1861), I. 64.

[In an earlier edition (1847), quoted in N. E. D., the word is *ethnizing*.]

ethnicopsychological (eth'ni-kō-si-kō-loj'i-kal), a. Relating to ethnic psychology.

lating to the uses of plants among aborigines or primitive races.

In May, 1899, Dr. Walter Hough was detailed to carry on ethno-botanical researches in Mexico, in connection with certain explorations by the Division of Botany. Smithsonian Rep., 1899, p. 65.

ethnobotany (eth-nō-bot'a-ni), n. [Gr. ἐθνος, people, + E. botany.] Botany in its relations to the economic uses of plants by different races, especially by aborigines or primitive TRACAS

Collections of interest in ethnology, ethnobotany, and reheology.

Smithsonian Rep., 1899, p. 18.

ethnocentric (eth-nō-sen'trik), a. [Gr. εθνος, people, + κέντρον, center, + -ic.] Characterpeople, + κέντρον, center, + -ic.] Characterized by the idea that the tribal unit to which the self belongs is the center of the universe. J. McGee, in 19th An. Rep. Bur. Amer. Ethnol.,

o. 831. chnoconchology (eth'nō-kong-kol'ō-ji), n. [Gr. έθνος, people, + E. conchology.] The study of the use of shells by various peoples. ethnodicy (eth-nod'i-si), n. [Gr. έθνος, people, + δίκη, justice.] The science of comparative jurisprudence, including the study of the forms of law found in primitive society

ethnoflora (eth-nō-flō'rā), n. [NL., ζ Gr. ἐθνος, people, + NL. flora.] The plants, taken collectively, used by the aborigines of any locality. See *ethnobotany.

The months of July to November, inclusive, were spent
. . . in researches among the Zufii Indians, the special
objects being a comparative study of the peoples of the
Southwest and a collection of the "ethnofora" of Zufii.
Smithsonian Rep., 1903, p. 36.

ethnog. An abbreviation (a) of ethnographical; (b) of ethnography.
ethnogamic (eth-nộ-gam'ik), a. [ethnogam-y + -ic.] Pertaining to or characterized by ethnogamy.

ethnogamy (eth-nog'a-mi), n. [Gr. ἐθνος, people, + γάμος, marriage.] A form of marriage confined to the consanguineal group, with absence of captive or purchase ceremonies: a form of endogamy without any vestige of intertribal marriages. W. J. McGee, in 17th An. tribal marriages. W. J. McGee, in 17th An. Rep. Bur. Amer. Ethnol., I. 284.

Ethnogenic association, sociology. See *association, *sociology.
ethnogeographer (eth'nō-jō-og'ra-fer), n. One

who studies the geographical distribution of races, or who is versed in that subject. ethnogeographic (eth'nō-jō-ō-graf'ik), a. Of or pertaining to ethnogeography.

The features which distinguish one ethnogeographic province from another are chiefly . . . meteorological, and they permit . . . a much closer division of human groups than the general continental areas.

Brinton, Basis of Social Relations, p. 198.

ethnogeographical (eth'nō-jē-ō-graf'i-kal), a. Same as *ethnogeographic. ethnogeographically(eth'nō-jē-ō-graf'i-kal-i),

adv. As regards ethnogeography; in accordance with the methods and results of ethnogeography. Encyc. Brit., XXX. 487.

nogeography. Encyc. Brit., XXX. 487.

ethnogeography (eth'nō-jō-og'ra-fl), n. [Gr. εθνος, people, + γεωγραφία, geography.] The science or description of the distribution of races and peoples over the surface of the earth. Brinton, Basis of Social Relations.

Ethnographic parallels, the occurrence of similar customs, arts, and beliefs among peoples in nearly the same stage of culture in widely separated regions.

ethnol. An abbreviation (a) of ethnological; (b) of ethnology.

ethnologize (eth-nol'ō-jīz), v. i.; pret. and pp. ethnologized, ppr. ethnologizing. [ethnolog-y+-ize.] To discuss from an ethnological point of view.

view.

ethnomaniac (eth-nō-mā'ni-ak), n. [Gr. εθνος, people, + μανιακός, ⟨μανία, mania.] A rabid advocate of racial autonomy; an extreme nationalist. Stand. Dict.

ethnometry (eth-nom'e-tri), n. [Gr. 8θνος, a people, a nation, + -μετρια, < μέτρον, a measure.] The measurement of the value of a people in the scale of civilization.

Dumont considers that the increase of population is the best criterion of the customs, manners, and habits of a people, that it is, in short, a veritable cthrometry.

G. S. Hall, Adolescence, II. 725.

ethnopsychic (eth-nop-si'kik), a. [Gr. ἐδνος, people, +ψυχή, mind.] Pertaining to the collective mind of a nation, race, people, or analogous human group.

ethnos (eth'nos), n. [Gr. εθνος, a company, band, tribe, people, nation, pl. εθνη, L. gentes, 'the nations,' the gentiles, the (other) peoples, the heathen.] The tribe or nation, in an anthropologic aspect.

Note that I say ethnic mind. For let it be said here, as well as repeated later, that there is no such thing as progress or culture in the isolated individual, but only in the group, in society, in the ethnos. Only by taking and giving, borrowing and lending, can life either improve or continue. continue.

Brinton, Basis of Social Relations, introd., p. xv.

ethnotechnics (eth-nō-tek'niks), n. [Gr. &θνος, people, + E. technics.] The science of comparative technology, including the study of the technology of primitive man.

ethnotechnography (eth'nō-tek-nog'ra-fi), n.
[Gr. ἐθνος, people, + τέχνη, art, + -γραφια, < γράφειν, write.] The study of the technology of different peoples. -ypadia. (

of different peoples.

ethnozoflogy (eth'nō-zō-ol'ō-ji), n. [Gr. ἐθνος, people, + Ε. zoölogy.] The study of the fauna of any region in its relation to the human population. Jour. Anthrop. Inst., 1901, p. 45.

ethochroi, n. pl. See *æthochroi.

ethological, a. 2. Relating to the study of human character.—3. Relating to the study of augstoms.—4. Relating to great or solutions.

customs.—4. Relating to œcology.

To these genera, each of which embraces species presenting a considerable range of ethological peculiarities while differing but little in morphological characters, we must also add Leptogenya.

Biol. Bulletin, May, 1904, p. 251.

ethology, n. 3. Same as ecology. [Rare.] ethophysical (eth-ō-fiz'i-kal, a. [eth(ic) + physical.] Having both ethological and physical characters.

cal characters. ethoxycaffein (eth'ok-si-ka-fē'in), n. [eth(er) + oxy(gen) + caffein.] A colorless, beautifully crystalline compound, $C_8H_9N_4O_2$. CO_2H_5 , slightly soluble in water and alcohol, made by boiling 3 parts monobrom caffein with 2 parts potassium hydrate in 10 parts alcohol. It is sendstive in previous boadeable.

the following acid.— **Ethylsulphuric** acid, a color-less syrup, C₂H₅080₂0H, formed by the action of sulphuric acid on alcohol. It readily yields salts and is important as an intermediate compound in the production of ether and ethylene from sulphuric acid and alcohol.

etivlene from sulphuric acid and alcohol.

etiolation, n.—Palse etiolation, a condition characterized by the absence of chlorophyl, often observed in wheat and other grasses, due to too low temperature.

etiophyl (e^{*} ti-ō-fil), n. [Gr. airia, cause, + φiλλον, leaf.] The yellow principle obtained from etiolated parts of plants, as buds of the skunk-cabbage, essentially different from chlorophyl. See the extract under *etioplast.

etioplast (e^{*}ti-ō-plast), n. [Gr. airia, cause, + πλαστός, formed.] A plastid found combined with etiophyl.

pined with etiopuyi.

For this principle I propose the name etiophyl, and for he associated plastid, which seems to be a distinct body, propose a corresponding name, etioplast.

H. Kraemer, in Proc. Amer. Philos. Soc., April 8, 1904, [p. 264.

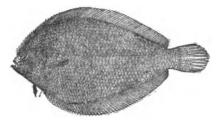
Eton coat, Eton jacket. See ★coat2.

The ethnopsychic relationship between these [initiatory] etrenne (ā-tren'), n. [F. étrenne, OF. estrenne, rites and those indicating the new birth of the soul, with a background to both of the resurrection of spring following the death of autumn, . . . is unmistakable.

G. S. Hall, Adolescence, II. 407.

G. S. Hall, Adolescence, II. 407. omen; a Sabine word.] A present; prop. an omen; a Sabine word.] A present; properly, a New-Year's present. Dickens.

Etropus (ēt'rō-pus), n. [NL., $\langle Gr. \dot{\eta}\tau\rho\sigma\nu$, abdomen, $+ \pi\sigma\dot{r}_{S}(\pi\sigma\dot{\sigma}_{S})$, foot.] A genus of small



Etropus crossotus. (From Bulletin 47, U. S. Nat. Museum.)

fragile-bodied flounders having the mouth very small, found on both coasts of tropical America. E. crossotus is the common species abun-

etum. [L. -ētum, also -tum, neut. of -ē-tu-s, -tu-s, orig. adj. and participial suffix: see -ed².]

A suffix added in Latin to names of trees and A suffix added in Latin to names of trees and other plants, to designate a plantation, grove, or garden of the plant specified: as, pinetum, quercetum, arboretum, etc., a forest of pines, oaks, trees, etc.; rosetum, a bed of roses; vinetum, a vineyard, etc. Hence, in modern scientific nomenclature and English use, the suffix is added to the genus or family name of a plant to form a collective expression for the living individuals of one or more species. Thus, it is used to denote: (a) An exhibitional collection in which many species are represented, as the pinetum, quercetum, etc., of a botanical garden; also attachable to a more general term, as in arboretum. (b) A treatise on a particular group of plants, as Gordon's Pinetum. (c) In phytogeog., a natural association in which one species or more than one of the same genus predominates, as ericetum, corpletum, etc. See *characetum.

slightly soluble in water and ancounce, many boiling 3 parts monobrom caffein with 2 parts potassium hydrate in 10 parts alcohol. It is sedative in nervous headache.

ethoxyl (eth-ok'sil), n. [eth(er) + ax(ygen) + yd.] In organic chem., the univalent organic radical, -OC₂H₅.

Ethyl bromide. See *bromide.—Ethyl chlorid, a coloriess very volatile liquid, C₂H₅C, prepared by heating alcohol with hydrochloric acid. It burns with a green fame, boils at 2.5° C, and is used in medicine as an anesthance of the strip in the strip of t

Eubasidii (ū-ba-sid'i-i), n. pl. [NL., < Gr. ev, well, + NL. basidium.] A division of the Basidiomycetes, including all the orders having true basidia. Compare *Hemibasidii.

true basidia. Compare *Hemibasidii.

Eubœic (ū-bē'ik), a. Same as Eubœan.

eucaine (ū'kä-in), n. [Gr. ev, well, + (co)caine.] A colorless crystalline compound,

 $\mathrm{CH_{3}N} \, \, < \, \frac{\mathrm{C(CH_{3})_{2}CH_{2}}}{\mathrm{C(CH_{3})_{2}CH_{2}}} \, > \, \mathrm{C} \, < \, \frac{\mathrm{COOC_{6}H_{5}}}{\mathrm{COOCH_{3}}}, \; \; \mathrm{pre-}$

pared from acetonamine. It is used by oculists as an anesthetic in place of cocaine. Also called methyltetramethyl-n-methyl-p-benzoulpiperidine-y-carboxylate. eucalypsinthe (ū-ka-lip'sinth), n. [Eucalyp-(tus) + (ab)sinthe.] A liquor distilled from the leaves of Eucalyptus Globulus: analogous to absinthe. to absinthe.

eucalyptene (ū-ka-lip'tēn), n. [Eucalyptus + -ene.] A colorless dextrorotatory terpene, -ene.] A colorless dextrorotatory terpene, $C_{10}H_{16}$, found in the essential oil of Eucalyptus

Globulus and of E. amygdalina. It is a dextroterebinthine.

eucalyptic (ū-ka-lip'tik), a. [Eucalyptus + -ic.] Belonging or relating to the plant genus -ic.] Belong Eucalyptus.

eucalyptol, n. This substance is apparently identical with cineol, $C_{10}H_{18}O$: it occurs in many species of Eucalyptus besides E. Globulus.

Eucalyptus oil. See *oil.
Eucharidse (ū-kar'i-dē), n. pl. [NL., < Eucharis + -idæ.] A family of lobate ctenophorans, having large lobes with complex lobular canals, body covered with elongate touch-partition and main tantacular filament present pillæ, and a main tentacular filament present as well as accessory filaments. The typical genus is Eucharis.

eucharistial (ū-kā-ris'ti-al), n. [ML. eucharistialis, prop. neut. of eucharistialis, adj., < LL. eucharistia, eucharist.] A vessel in which the eucharist is reserved.

eucharistize (ū-kā-ris'tīz), v. t.; pret. and pp. eucharistized, ppr. eucharistizing. [eucharist + -ize.] To bless; consecrate. [eucharist

Placing the bread and wine upon the Lord's Table . . . as a devout offering to God of His creatures of bread and wine that He may accept them at our hands . . . to be by Him eucharistized to the higher sphere and purpose of the

Euchlæna (ū-klē'nā), n. [NL. (Schrader, 1832), in allusion to the situation of the seeds; \langle Gr. $\varepsilon\dot{v}$, well, $+\chi\lambda\dot{a}i\nu a$, cloak, covering.] A genus of grasses, consisting of a single species, E. Mexicana, the teosinte (which see).

In Guatemala the euchlaena, nearly akin to maize, was called the maize of the gods.

F. Ratzel (trans.), Hist. of Mankind, II. 176.

euchlorhydria (ū-klōr-hi'dri-ā), n. [NL., < Gr. et, well, + E. chlor(in) + hydr(ogen).]

The presence of a normal amount of hydrochloric acid in the gastric juice.

Gr. εὐ, well, + E. chlor(in) + hydr(ogen).]
The presence of a normal amount of hydrochloric acid in the gastric juice.

Suchre, n.—Call-ace suchre, a variety of euchre for from four to six players, each playing for himself. The pack varies according to the number of players: all cards below the 9-spot are omitted for four; the 8's are put in for five; and the 7's for six. Sometimes the joker is added. A trump is turned up by the dealer, and each player in turn can order up or pass. If it is turned down, each player in turn can name a new suit. The maker of the trump, whether he has ordered it up or taken it up, then has the privilege of calling upon the holder of the best card of any suit which is not trumps to be his partner, but the partner thus called upon must not disclose himself. When the hand is played the partner will be revealed. If the partners win 3 or 4 tricks, each scores a point. If they win all 5 tricks they score 2 if four play and 3 if five or six play. If the maker of the trump plays alone, either through not having called any suit or by discovering that he holds the best card in play of the called suit, he scores 1 for winning 3 or 4 tricks. If he wins all the tricks he scores as many points as there are players, including himself. All euchres count 2 points to the adversaries of the maker of the trump and his partner.—Domino euchre, a game resembling euchre, played with dominoes instead of cards.—Drive euchre, Same as play alone against him, and either or both of the lone players can ask for his partner's best card, giving one from his own hand in exchange for it. If a lone hand euchres a lone hand it counts 4.—Set-back euchre, a variety of euchre in which if any players are ask for his partner's best card, giving one from his own hand in exchange for it. If a lone hand euchres a lone hand it counts 4.—Set-back euchre, a variety of euchre in which seven persons play with a full pack of 52 cards. Seven cards are dealt to each player, 2.—3.—2 at a time, and the remaining four are left on the

euchroic ($\bar{\mathbf{u}}$ -kr $\bar{\mathbf{o}}'$ ik), a. [Gr. $\epsilon \dot{\mathbf{v}}$, well, + $\chi \rho \acute{o}a$, color.] Noting an acid, a colorless compound, (HOCO) $_2$ C $_6$ ($_{CO}^{CO}$) NH) $_2$.2H $_2$ O, prepared, together with paramide, by heating ammonium mellitate. It crystallizes in quadratic prisms which melt and decompose above 250° C.

euchylia (ū-kil'i-k), n. [NL., < Gr. εὐ, well, + χυλός, juice (see chyle).] A healthy state of the chyle.

Eucinostomus (ū-si-nos'tō-mus), n. [NL., \langle Gr. $eintin(\eta\tau\sigma_0)$, easily moved, $+\sigma\tau\delta\mu\alpha$, mouth.] A genus of small silvery fishes of the tropics, of the family of $Gerrid\alpha$, distinguished by

the very large size of the interhemal bone at the base of the second anal spine. E. gula is the commonest species.

the commonest species.

Euciroa (ū-si-rō'ā), n. [NL., said to be (irreg.)

(Gr. ē, well, + κειρία, a cord, a bandage.]
The typical genus of the Euciroidæ.

Euciroidæ (ū-si-rō'i-dē), n. pl. [NL., (
Euciroa + -idæ.] A family of anomalodesmaceous pelecypod Mollusca. They possess subequivalve shells with a strong tubercle in the right valve
before the resilium, and the dorsal margins are modified
so as to overlie and underlie each other. Species are rare
and occur only in the Tertiary and recent periods. so as to overlie and underlie each other. Species are rare and occur only in the Tertiary and recent periods.

Euclea, n. 2. In bot., a genus of plants of the family Diospyraces. They are trees or shrubs with evergreen, corfaceous leaves, alternate, opposite, or rarely in whorls of three, and small flowers in usually axillary cymes. whoris of three, and small nowers in usually axiliary cymes. There are about 25 species, natives of tropical and southern Africa, and Arabia, of which *E. racemosa* is the type. Several species are used in wood-working, especially *E. Pseudebenus*, the *Orange River ebony*. The fruit of this species is eaten by the aborigines, under the name *embolo*, and that of *E. undulata* under the name *guarri*.

Euclidean number, motion, transformation.

See *number, etc.
Euclid's postulate. See *postulate

eucnemia (ūk-nē'mi-ā), n. [NL., (Gr. εὐ, well, + κνήμη, tibia.] In anthrop., the normal condition of the shin-bone; the absence of platycnemia. Amer. Anthropologist, Jan.-March, 1901, p. 32.

eucone (ũ'kōn), a. [Gr. εὐ, well, + κῶνος, cone.] Possessing a well-developed crystal-line lens or cone: said of the eyes of certain insects, as the Hymenoptera and Lepidoptera many Coleoptera, Neuroptera, etc.: opposed to *acone and *pseudocone.

cucrasite (ū'kra-sīt), n. [Gr. εὐκρασια, proper mixture (⟨ εὐκρατος, well mixed), + ·ite².] A complex thorium silicate allied to thorite.

complex thorium suiteate allied to thorite. **Eucratea** (ū-kra-tē'š), n. [NL., said to be < Gr. εb, well, + κραταιός, mighty (< κράτος, might), (otherwise perhaps < Gr. εὐκρατος, temperate, of similar elements)] The typical and only genus of the family Eucrateidæ.

Lamouroux. 1812.

Eucrateids (ū-kra-te'i-dē), n pl. (NL., < Eucratea + idæ.] A family of chilostomatous bryozoans. They are characterized by branching, erect, and free or recumbent zoaria with pyriform, uniserial obiserial zocecia having a subterminal, usually oblique aperture. The family has lived from Cretaceous time

Eucrustacea (ū-krus-tā'shiā), n. pl. [NL., Gr. ei, well, + L. Crustacea.] A division or subclass of the crustaceans which do not have the body divided into median and lateral lobes,

and have two pairs of antennæ and the maxillæ or mandibles not pediform.

Eucryphia (\ddot{u} -krif'i- \ddot{u}), n. [NL. (Cavanilles, 1797), $\langle Gr. \dot{e}\dot{v}$, well, $+\kappa\rho\dot{v}\phi\iota\sigma_{c}$, hidden. The opening flower is capped by the calyptriform calyx and the fruiting carpels are backed with a cork-like govering 1. A genus of dicetyles. cork-like covering.] A genus of dicotyle-donous plants, the type and only genus of the donous plants, the type and only genus of the family Eucryphiaces. The species are ornamental evergreen trees or shrubs with opposite simple or pinnate leaves and large white flowers, solitary in the upper axils. Only 4 species are known, 2 in Chile and 2 in New South Wales and Tasmania. The wood of the Chilean species is very durable and is used for various purposes. See

Eucryphiaces (ū'krif-i-ā'sē-ē), n. pl. [NL. (Gay, 1846), < *Eucryphia* + -aceæ.] A family of dicotyledonous choripetalous plants of the order Hypericales, containing the single genus Eucryphia. See muermo and *Eucryphia.

eucryphiaceous (ū-krif-i-ā'shius), a. Belong-

ing to the plant-family Eucryphiaces.

Eucryclogobius (ū-sik-lō-gō'bi-us), n. [NL., Gr. $\varepsilon \dot{v}$, well, $+ \kappa \dot{\nu} \kappa \lambda \rho c$, circle, + NL. gobius.] A genus of small gobies having small smooth scales: found in the streams of California. E. newberryi is the common species.

newcerry: is the common species.

eudemonic, eudemonic (ū-dē-mon'ik), a. [Gr. εὐδαμονιάς, of happiness. < εὐδαμονία, happiness: see *eudemony.] Relating or contributing to happiness: considered as relating or contributing to happiness. N. E. D.

eudemonize, eudæmonize (ū-dē'mon-īz), v. t.;

pret. and pp. eude-, eudæmonized, ppr. eude-, eudamonizing. [Gr. εὐδαιμονίζειν, call or account happy, ζευδαίμων, happy: see eudemon.]
To consider or esteem happy. Also endæmonise.

But happiness, as Aristotle understands it, is something measured more by the estimate of the judicious spectator than by the sentiment of the man in whose bosom it resides. No person is entitled to be called happy, whom the intelligent and reflective observer does not macarise the intelligent and renective observer does not inactatise or (eudermonies), or whose condition he would not desire more or less to make his own.

Grote, Fragments on Ethical Subjects, V.

eudemony (ū-dem'ō-ni), n. [Gr. εὐδαιμονία, ζ

εὐδαίμων, happy: see eudemon.] Happiness as understood by Aristotle, namely, as consisting, not in pleasure except as a sign of perfected activity, but in the activity which befits a human being, that is, in virtuous activity, of which the highest and best kind is that which is self-controlled through reason, the virtuous activity of the soul in a completed

eudermol (ū-dėr'mōl), n. [Gr. εὐ, well. eudermol (u-der mol), n. [Gr. $\epsilon \dot{v}$, well, + $\delta \dot{\epsilon} \rho \mu a$, skin, + -ol.] A trade-name for nicotine salicylate. It is a colorless crystalline compound which is soluble in water, alcohol, and oils, and contains 54 per cent. of nicotine. Being non-irritating and odorless, it can be used in ointment of from 0.1 to 0.25 per cent. strength in the treatment of parasitic skin-diseases.

eudiagnostic (ū-dī-ag-nos'tik), a. [Gr. εὐ, well, + διαγνωστικός, able to distinguish: see diagnostic.] In petrog., easily distinguished, that is, without the aid of a magnifying-glass: applied by Zirkel (1893) to the texture of rocks in which the mineral constituents can be rec-

ognized by the unaided eye.

eudidymite (ū-did'i-mīt), n. [Gr. εὐ, well, +

δίδυμος, twin, + -ite².] A silicate of beryllium
and sodium, HNaBeSi₃O₈, occurring in white
tabular monoclinic crystals.

eudiometer, n.— Bunsen's eudiometer, a glass tube of uniform bore, closed at one end and having at that end two platinum electrodes, with spark-gap, sealed into the glass. The tube is graduated in millimeters.

eudiometrically (ū'di-ō-met'ri-kal-i), adv. By means of the eudiometer; in a eudiometric method.

eudoxiform (ū-dok'si-fôrm), a. L. forma, form.] Resembling or having the structure of the Eudoxidæ; composed of a sterile and a fertile medusoid without special

nectocalyx. Compare *ersæiform.
eudoxin (ü-dok'sin), n. [Appar. < Gr. εὐδοξος,
of good repute, + -in².] A bismuth salt of
nosophen (tetra-iodo-phenolphthalein) containing 52.9 per cent. of iodine. It is an inter-

nal astringent and stomachic.

 eudoxome (ψ-dok'sōm), n. [Gr. εὐδοξος, of good repute, + -ome.] In hydromedusans, one of the two main forms of cormidium, consisting typically of a bydrophyllium, a gastrozoöid with a tentacle, and one or more medusoid gonophores. Compare *ersæome.

Eudrilidæ (û-dril'i-dē), n. pl. [NL., < Eudrilus + -idæ.] A family of terricolous Oligochæia It consists of worms of variable size having paired nephridia, setze in couples and sigmoid in shape, spermiducal glands present, and the male and female generative openings, in some genera, unpaired. It contains about 20 genera, all of which except Eudrilus, which is almost cosmopolitan in range, are restricted to tropical

Eudrilus (ū-drī'lus), n. [NL. (Perrier, 1871).]
The typical genus of the family Eudrilidæ.
euectics (ū-ek'tiks), n. Same as evectics.
eufemism, eufemistic. Simplified spellings of euphemism, euphemistic.

eufonic, eufony. Simplified spellings of euphonic, euphony. eugallol (t̂-gal'ōl), n. [eu-+ (pyro)gallol.] A

thick, syrupy, brownish-yellow compound, $C_6H_3(OH)_2O.C_2H_3O$, readily soluble in water; acetyl pyrogallol. It is employed in a 33-percent acetone solution, and when painted on the skin leaves a firm, elastic film: used in the treatment of skin-diseases.

Eugaster (ū-gas'ter), n. [NL.. (Gr. εὐ, well, + γαστήρ, belly.] A genus of ophiurans or brittle-stars from the North American Devonian, possessing a small disk and long arms with a double series of alternating ambulacral plates, and on either side a series of spinous adambulacral plates.

Eugeniacrinus (ū-jē-ni-ak'ri-nus), n.

eugenism (ū'je-nizm), n. [Gr. εὐγευής, wellborn, + -ism.] The aggregate of the most favorable conditions for healthy and happy

existence. Galton.

eugenoform (ū-jen'ō-fôrm), n. [eugen(ol) +
form(aldehyde).] A colorless, crystalline compound soluble in water obtained by the action of formaldehyde upon eugenol-sodium, said

to liberate formaldehyde in the intestinal fluids: an intestinal antiseptic.

ngenol (ū'jē-nōl), n. [Gr. εὐγενής, well-born, + -ol.] A colorless oily compound, HOC6H3 (O³CH₃)CH₂CH:CH₂, contained in oil of cloves, oil of bay, oil of cinnamon-leaves, oil of allspice, oil of cassia, oil of pimento, and in certain other essential oils. It boils at 247.5° C. and has a spicy odor. Also called 12-propenylphendiol-3-methul ether.

eugenol-acetamide (ū'jē-nōl-a-set'a-mid), n.
A crystalline compound of eugenol and acetamide. It is used as a local antiseptic and

dusting-powder. eugenol-iodide (ū'jē-nōl-ī'ō-dīd), n. A ish odorless antiseptic compound, $C_{10}H_{11}IO_2$, obtained by the action of iodine on eugenolsodium. Also called iodo-eugenol.

eugenol-sodium (u'jē-nōl-sō'di-um), n. A crystalline compound, C₁₀H₁₁NaO₂, obtained by dissolving eugenol in solution of sodium hydroxid. Also known as sodium eugenolate or sodium eugenate.

 eugeogenous (ū-jē-oj'e-nus), a. [Gr. εt, well, + γē, earth, + -γενης, -producing. See geogenous.]
 In geol., disintegrating readily; yielding plentiful detritus and producing good soil: said of rocks. Thurmann.

Both authors apply to Yorkshire Thurmann's recogni-tion of eugeogenous and dysogeogenous rocks. The for-mer class of rocks yield a plentiful detritus, and the over-lying soils are cool and moist. The dysogeogenous rocks or limestones of this area — yield a less abundant de-tritus, and are in Yorkshire much fissured and broken, so that the overlying soil is comparatively dry.

Geog. Jour. (R. G. S.), Aug., 1903, p. 151.

Eugerion (ū-jē'ri-on), n. [NL., ζ Gr. εὐγηρία, a green old age t.] A genus of hemipterous insects with large, membranous, reticulated fore and hind wings, prolonged lancet-like mouth-parts, and fillform antennæ. It occurs in the Permian formation.

engetic (ū-jet'ik), a. [eng(enol) + -et- + -ic.]
Noting an acid, a colorless compound,
HÔC₆H(ÔCH₃)(CO₂H)ĈH₂CH:CH₂, formed by
the action of sodium and carbon dioxid on eugenol. It crystallizes in long thin reigns cogenol. It crystallizes in long, thin prisms and melts at 124° C. Also called 3-allylphendiol-(5.6)-methullic acid.

(5,6)-methyllic acid.

Euglena phase, a stage in the development of some sporozons in which they exhibit euglenoid movements made possible by the thin, flexible covering present at this time.

euglenoid (ü-glē'noid), a. [Euglena + -oid.] Resembling Euglena.

euglobulin (ü-glob'ū-lin), n. [eu- + globulin.]

One of the supposed components of serum globulin which is insoluble in water. See also *pseudoglobulin.

Euglypha (ū-gli'fa), n. The typical genus of the family Euglyphidæ. Dujardin, 1841.

Euglyphidæ (ū-glif'i-dē), n. pl. [Euglypha + -idæ.] A family of mostly fresh-water rhizopods which have a shell formed of regular plates of chitin or of silica, often bearing spines, and with the pseudopodia sharp-pointed and often branching but not anastomosing. It contains the genera Euglypha,
Trinema, Cyphoderia, Campascus, and Nadinella.
eugranitic ü-gra-nit'ik), a. [Gr. ei, well, + E. granitic.] In petrog., distinctly granular or granitic in structure. Lossen.

eugraphic (ü-graf'ik), a. [Gr. εὐ·ραφος, well painted, < εὐ, well, + γράφειν, write, paint.] Pertaining to or characterized by graphic resemblance.

Eugraphic confusions are such as arise from the mistaking and transplacing of forms which appear alike.

H. H. Bawden, in Psychol. Rev. Mon. Sup., III. iv. 81.

euhyostylic (ū-hī-ō-stil'ik), a. [eu- + hyo-

Eugenia, a woman's name, + Gr. *cpivov, lily styl-y + -ic.] Relating to or having the charcase crinoid).] A Mesozoic genus of crinoids possessing a small saucer-shaped calyx and concealed and closely united basal plates which are overlapped by radial plates extended upward so as to form conspicuous projections.

Sugenic¹, a. II. n. The science which deals with the means of cultivating and improving the innate good qualities of man. Also outsets a cultivating and improving the innate good qualities of man. Also outsets a cultivating and improving the innate good qualities of man. Also outsets a cultivating and improving the innate good qualities of man. Also outsets a cultivating and improving the innate good qualities of man. Also outsets a cultivating and improving the innate good qualities of man. Also outsets a cultivating and improving the innate good qualities of man. Also outsets a cultivating and improving the cultivating and improving the innate good qualities of man. Also outsets a cultivating and improving the cultivation of the second visceral arch. The condition of the second visceral arch. The condition of the second visceral arch. The condition of the second visceral arch. The cultivation of the proving the condition of the second visceral arch. The condition of tion or suborder of Gastrotricha which con-

tains forms having two pedal appendages. It includes the genera Ichthydium, Chætonotus, Chætura and Lepidoderma. Compare *Apodina.

euisopodous (ū-ī-sop'ō-dus), a. Having the characters of or resembling the Euisopoda.
eukinesia (ū-ki-nō'si-κ), n. [NL., ζ Gr. εὐκινησία, easiness of motion, ζ εὐκίνητος, easily

eukrite, n. Same as eucrite.
 euktolite (ūk'tō-līt), n. [Gr. εὐκτός, desired, + λίθος, stone.] See *venanzite.

Aifoc, stone.] See *venanzite.

Eulamellibranchiata (ū-lā-mel-i-brang-kiā'tā), n. pl. [NL., < eu- + Lamellibranchiata.]

An order of mollusks of the class Pelecypoda.

They have the mantle-edges united at one or more points, the branchise with vascular interfilamentary junctions, the genital glands with independent external openings, and usually two adductor muscles. It includes a number of large and important families, among them being the Unionides, Cyprinides, and Cyrenides.

Enlantorhamnbus (ū-lep-tō-ram'fus), n. [NL...

Euleptorhamphus (\ddot{u} -lep-t \ddot{v} -ram'fus), n. [NL., \dot{c} Gr. $\dot{e}\dot{b}$, well, $+\ddot{a}\dot{e}\pi\tau\dot{o}\dot{c}$, fine, small, $+\dot{\rho}\dot{a}\mu\phi\sigma_{c}$, beak.] A genus of halfbeaks, or Hemiramphidæ, found in the open seas of the tropics: distinguished by the ribbon-shaped body. E. longirostris is the common species

Eulerian polyhedron. See *polyhedron. Euler's diagrams. See *diagram. Euler's line or straight. See *straight¹. Euloma (\bar{u} -lo'ma), n. [Gr. $\epsilon \dot{v}$, well, $+ \lambda \bar{\omega} \mu a$, a fringe.] A genus of trilobites of the family Procitiae: characteristic of the lowest Silurian

eumenid (u'me-nid), a. and n. I. a. Of or belonging to the hymenopterous family Eumenidæ.

II. n. A member of the hymenopterous fam-

ilv Eumenidæ.

ily Eumenidæ.

Eumicrotremus (ū-mik-rot'rē-mus), n. [NL., ⟨Gr. εὐ, well, + μικρός, small, + τρῆμα, hole.]

A genus of lump-fishes having the body nearly spherical and covered with prickles: found in the North Atlantic.

eumitosis (ū-mi-to'sis), n. [NL., ⟨ eu- + mi-tosis.] Typical mitosis or indirect cell-division, in which the chromosomes are divided longitudinally instead of transversely.

sion, in which the chromosomes are divided longitudinally instead of transversely. eumitotic (ū-mi-tot'ik), a. [eumitosis (-ot-) + -ic.] Of or pertaining to eumitosis. Eumycetes (ū-mi-sē'tēz), n. pl. [NL., < Gr. εὐ, well, + μύκητες, plural of μύκης, fungus (see Mycetes).] A name used by recent systematists to include all the so-called true fungi, as the Phycomycetes, Ascomycetes, and Basidiomycetes. The Myxomycetes and Schizophyta are excluded. are excluded.

eumycetic (ū-mī-set'ik), a. Of or pertaining

to the Eumycetes.

Eunema (ŭ-nē'mā), n. [NL., < Gr. εὐ, well, + νήμα, a thread.] A genus of Paleozoic rhipidoglossal gastropod mollusks having an elongate pyramidal spire with two or more keels and transverse striæ on the whorls.

eunicean (ū-nis'ē-an), a. [Eunice + -an.] Pertaining to or resembling the genus Eunice.
euniciform (ū-nis'i-fôrm), a. [Eunice + L. euniciform (ū-nis'i-fôrm), a. [Eunice + L. forma, form.] Formed like a eunicoid worm. eunicoid (ū'ni-koid), a. [Eunice + -oid.] Resembling or pertaining to the Eunicidæ. eunol (ū'nōl), n. [eu(calyptol) + n(aphth)ol.] A compound, existing in an a- and β-modification peaks for the entry of th

tion, made from eucalyptol and a- and β -naphthol: used as an antiseptic in surgery and

dermatology.

eunuch-flute (ū'nuk-flöt), n. An old musical instrument consisting of a slightly flaring wooden tube having a mouth-hole in the side near the smaller end, into which the player hummed or sang. The smaller end was closed by a very thin membrane, which was thrown into vibration by the player's tone and imparted to it a peculiar bleating and tremulous character. The instrument was made in several sizes so as to provide for part-music. It is still sometimes made as a toy.

Buomphalidæ (ū-om-fal'i-dē), n. pl. [NI... < Euomphalidæ (ū-om-fal'i-dē), n. pl. [NI... < Euomphalius, the typical genus, + -idæ.] A family of rhipidoglossal gastropods having depressed conical or discoidal, spirally coiled, and umbilicated shells, and often calcareous opercula. As at present construed, the family extends from the Cambrian to the Tertiary formations. formations.

euonymous (ū-on' i-mus), a. [Gr. εὐώνυμος, well-named, ⟨εὐ, well, + ὁνομα, name.] Well or fittingly named.

or nttingly named.
euonymus-oil (ū-on'i-mus-oil), n. Oil extracted from the seeds of the spindle-tree, Euonymus Europæus, of central Europe.
Euorthoptera (ū-ôr-thop'te-rä), n. pl. [NL., \langle Gr. $\epsilon \dot{\nu}$, well, $+ \dot{\rho}\rho\theta\dot{\rho}$, straight, $+ \pi\tau\epsilon\rho\dot{\rho}\nu$, wing.]
The Dermaptera, or earwigs, considered as a suborder of Orthoptera suborder of Orthoptera.

euosmite (ū-os'mit), n. [Gr. εὐοσμος, sweet- Eurafrica (ū-raf'ri-kä), n. [Eur(ope) + Afsmelling, < εὐ, well, + ὁσμή, ὁδμή, smell, odor rica.] Europe and Äfrica considered as one (see osmium), + -ite².] A fossil resin, of a continent or ethnic area.

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One given to the use of euphemisms.

enphonicon (ū-fon'i-kon), n. [NL.: see euphonic.] A variety of harmonichord.

euphonon (ū-fō'non), n. [NL., < Gr. εὐφωνος, well-sounding: see euphony.] A variety of harmonichord.

enphononichord.

Derived from Euphorbia.—Euphorbia + -ic.]
Derived from Euphorbia.—Euphorbic acid, an amorphous acid contained in the gum-resin euphorbium from Euphorbia resinifera.

euphorbine (ū-fôr'bin), n. [Euphorbia + -ine².] A non-volatile poisonous compound, said to be present in the milky juice of Euphorbia myrtifolia.

A colorless, neutral dextrorotatory, crystalline compound, $C_{15}H_{24}O$, contained in the gumresin euphorbium from Euphorbia resinifera. It melts at 116° C. euphorbone (ū-fôr'bōn), n. [Euphorbia + -one.]

euphorin (ũ'for-in), n. [Gr. εἰφορος, easy to bear or bearing well, (εἰ, well, + φέρειν, bear.] A trade-name of phenyl urethane, recommended for medical use as an antipyretic and analgesic.

euphorious (ü-fō'ri-us), a. [Erroneously for "euphorious, \langle Gr. $\epsilon i \varphi o \rho o c$, bearing well, enduring easily or patiently, \langle ϵv , well, $+ \phi \epsilon \rho \epsilon v$, bear.] Cheerful or patient in life.

The conviction is borne in upon the soul . . . that man is a favored . . . being, . . . that real evil can not befall the good man, living or dead; and that he can afford to be glad and euphorious that he is alive.

G. S. Hall, Adolescence, II. 547.

eupittone (ū-pit'on), n. [Gr. εὐ, well, + πίττα, pitch, + -one.] Same as cupittonic acid. See *eupittonic.

eupittonic (ū-pi-ton'ik), a. [eupittone + -ic.] Noting an acid, an orange-yellow compound, $(CH_3O)_6C_{19}H_8O_3$, formed by the oxidation of wood-tar oil containing pyrogallol and methyl pyrogallol ethers. It crystallizes in long hairlike needles, melts at 200° C., and is dibasic.

eupnœic (ūp-nē'ik), a. [eupnœa + -ic.] Relating to or characterized by eupnœa; breathing normally.

Eupomotis (ū-pō-mō'tis), n. [NL., \langle Gr. $\epsilon \dot{\nu}$, well, $+ \pi \tilde{\omega} \mu a$, lid, $+ o \dot{v}_{\zeta} (\dot{\omega} \tau^{-})$, ear.] A genus of sunfishes (*Centrarchidæ*) distinguished by well, + πόμα, μα, τος, the sunfishes (Centrarchidæ) distinguished by the blunt pharvngeal teeth. E. gibbosus, the commonest of the sunfishes, is abundant throughout the northeastern United States.

Buropean, a.—The European concert. See *concert. throughout the northeastern United States.

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Buropean, a.—The European concert. See *concert. throughout throu

 eupraxy (ũ'prak-si), n. [Gr. εὐπραξία, welldoing, (εὐ, well, + πράσσειν, do: see practic, practice, praxis.] Well-doing; right conduct; morality in behavior.

are gregarious

Eupuccinia (ū-puk-sin'i-ā), n. pl. [NL., < Gr.
ei-, true, + Puccinia.] Ä group of species of

Puccinia which produce spermogonia, æcidia,
uredospores, and teleutospores, the last germinating only after a resting period. The group
is subdivided into the Auteupuccinia and the

Hetereupuccinia. Schræter.

eupyrene (ū'pī-rēn), a. [Gr. εὐ, well, + πυρήν, stone of a fruit (nucleur).] Containing a well-

stone of a fruit (nucleus).] Containing a well-developed nuclear portion: applied to the normal spermatozoön: opposed to *oligopyrene and *apyrene. Merce, 1902.

eupyrin (\vec{u}-\vec{v}-\vec{v}'\vec{v}'\vec{v}\), n. [Gr. \vec{c'}, well, $+ \pi \vec{v}
ho$, fire, $+ -in^2$.] A pale greenish-yellow crystalline compound having a vanilla odor, made from paraphenetidin and vanilla. It is antipyretic. euquinine (\vec{u}-\vec{w}-\vec{w}'\vec{v}\), n. [eu- + quinine.]

The pharmaceutical name for ethyl quinine-carboxylate, $C_{20}H_{23}O_{2}N_{2}COC_{2}H_{5}$, prepared from quinine ethyl chlorearbonate. It is tasteless, but otherwise resembles quinine in chemless, but otherwise resembles quinine in chemical and medicinal properties.

An abbreviation of Europe or of European. Eurafric (ū-raf'rik), a. Same as *Eurafrican.

That Eurafric region which has been the birthplace of nany nations. Smithsonian Rep., 1899, p. 480. many nations.

moved, < εὐ, easily, + κινεῖν, move.] Normal brownish-yellow color, found with lignite at power of movement.

Baiershof in the Fichtelgebirge, Germany.

eukrite, n. Same as eucrite.

eupepticity (ū-pep-tis'i-ti), n. Good digestion, or the state of feeling resulting from it. Cartlyle.

Eulamellibranchiata (ਧ-lā-mel-i-brang-ki-euphemist (ਧ'fē-mist), n. [euphem(y) + -ist.]

ā'tā), n. pl. [NL., < eu- + Lamellibranchiata.] One given to the use of euphemisms.

An order of mollusks of the class Pelecypoda.

An order of mollusks of the class Pelecypoda.

An order of mollusks of the class Pelecypoda.

Semptonicity (ਧ-pep-tis'i-ti), n. Good digestion, or the state of feeling resulting from it. Cartlyle.

II. n. An individual belonging to the Europe and Africa.

They have the mantle-edges united at one or more points.

An order of mollusks of the class Pelecypoda.

Semptonicity (ਧ-pep-tis'i-ti), n. Good digestion, or the state of feeling resulting from it. Cartlyle.

II. n. An individual belonging to the Europe and orther advision of mankind, which, according to certain writers, includes the peoples of southern Europe and northern Africa.

Southern Europe and northern Africa.

Euramphæa (ū-ram-fē'š), n. [NL., < Gr. e., well, + ράμφος, beak.] The typical genus of the family Euramphæidæ. Gegenbaur, 1856.

Euramphæidæ (ū-ram-fē'i-dē), n. pl. [NL., < Euramphæa + -idæ.] A family of lobate etenophorans having two wing-like projections to the obsorb and in thick the affective section. at the aboral pole in which the subtentacular costs and meridional vessels are produced. The typical genus is Euramphæa.

Euraryan (ū-rār'yan), a. and n. [Eur(ope) + Aryan.] I. a. Relating to the European

Aryan.

II. n. A European Aryan.

euresol (ū'rē-sōl), n. [eu- + res(orcin) + -ol.]

A viscid yellow mass, resorcin monoacetate. It is used as a substitute for resorcin in skindiseases.

eurhodine (ū'rō-din), n. [Gr. εὐ, well, + ρόδον,

Surhodine (u'ro-din), n. [Gr. εv , well, $+ \rho \delta d \sigma v$, rose, $+ -i n \varepsilon^2$.] The name of a class of organic compounds containing the complex N.C.CH

R₂NC₆H₃ < || CH.

N.C.C₆H₄

They are prepared from amino-orthodiamines and quinones. They are feeble bases with a yellowish-green fluorescence. The salts are scarlet and have no technical application.

eurhodol (ū'rō-dōl), n. [eurhod(ine) + -ol.] The name of a class of organic compounds con-N.C.CH

taining the complex $HOC_{\theta}H_{3}\langle | \parallel N.C.C_{\theta}H_{4}\rangle$ CH,

formed by the action of hydrochloric acid on the eurhodines, which they resemble in color and fluorescence

eurhythmic (ū-rith'mik), a. [eurhythm-y, eurythmy + -ic.] Harmonious: said especially of architecture in which the proportion is agreeable.

eurhythmy. See eurythmy.

euristic (ū-ris/tik), a. Same as heuristic. eurobin (ū'rō-bin), n. [eu-+(ara)roba+-in².] Chrysarobin triacetate. It is insoluble in water, and is used as a substitute for chrysarobin.

Europasian subregion, in zoögeon, a division of the Holarctic region comprising Europe north of the Alps and Asia north of the Himalayas. It is roughly the same as the Eurasiatic region of Heilprin and the Palearctic region of other writers.

europium (ū-rō'pi-um), n. [NL., < L. Europa, Europe.] A supposed new element announced by Demarçay in 1901, obtained in very small quantity as oxid, sulphate, etc., from samarskite and monazite. Its compounds have been further examined by Urbain and Lacombe. It is characterized by a special spark-spectrum, and also by a phosphoreacent spectrum, and appears to be intermediate between samarium and gadolinium, with an atomic weight of about 151.79.

eurybathic (ū-ri-bath'ik), a. [Gr. εὐρύς, wide, ourybathic (u-ri-bath ik), a. [Gr. $eipe_{ij}$, wide, $+\beta a\theta o_{ij}$, depth.] Having a wide or great range as to depth; able to live in both deep and shallow water. $Encyc.\ Brit.$, XXXIII. 936. ourybenthic (ū-ri-ben'thik), a. [Gr. $eipe_{ij}$, wide, $+\beta \ell \nu \theta o_{ij}$, depth (see *benthos), + -ic.] Enduring great differences of depth; found at different depths in the ocean.

eurycephalic, a. 2. Having a broad but dolichocephalic skull; belonging to a subdivision of the obidocephalic crania as classified by Aitken Meigs.

eurycephalous (ŭ"ri-sef'a-lus), a. Same as

eurygnathism (ū-rig'na-thizm), n. [eurygna-th(ous) + -ism.] The condition of being eurygnathous.

Combining this feature with eurygnathism, that is lateral projection of the cheek-bones, Geoffroy Saint-Hilaire found that the Caucasic face is oval with vertical jaws;

eurygnathous (ū-rig'na-thus), a. [Gr. $\epsilon i \rho i \nu \delta$, broad, + $\gamma \nu \delta \theta o c$, jaw.] In anthrop., having wide cheek-bones and upper jaws, like the Mongoloid race. Geoffroy Saint-Hilaire.

euryhaline (ū-ri'ha-lin), a. [Prop. *euryaline, < Gr. $\epsilon \nu \rho \nu c$, wide, + $\hat{a} \lambda c$, salt.] Having a wide range or capacity as to saltness; able to endure great changes in the salinity of water.

All Baltic marine animals can live in water of varying saltness, and are therefore said to be euryhaline.

Voyage of H. M. S. Challenger, xxix.

Eurynotus (ū-i-nō'tus), n. [NL., < Gr. ενούς broad, + νῶτος, back.] A genus of extinct ganoid fishes having a deeply fusiform trunk, large pectoral fins, and the dorsal fin extended to the tail. It occurs in the Carboniferous rocks of Great Britain and Europe.

euryon (u'ri-on), n. [Gr. ευρυς, wide.] In craniom., the points on the lateral faces of the skull at which the greatest width is found. Von

Török

eurypauropodid (ū-ri-pā-rop'ō-did), n. and a.
I. n. A member of the myriapodous family

Eurypauropodidæ.
II. a. Of or belonging to the myriapodous

family Eurypauropodidæ.

euryprognathous (ū-ri-prog'nā-thus), a. [Gr. $\epsilon i \nu \rho \nu c$, wide, $+ \pi \rho \dot{c}$, before, $+ \gamma \nu \dot{a} \theta o c$, jaw.] In anthrop., having wide cheek-bones and upper jaws, combined with prognathism. Geoffroy Saint-Hilaire.

Craniological studies which had already been cultivated by Morton, and on which Geoffroy Saint-Hilaire based his four fundamental types: orthognathous, eurygnathous, prognathous, and euryprognathous. Ethnology. p. 166.

Keane, Ethnology, p. 166. eurypterid (ū-rip'te-rid), n. and a. I. n. A merostome crustacean of the family Eurypte-

II. a. Having the characters of or pertain-

II. a. Having the characters of or pertaining to Eurypterus or the Eurypteridæ. eurypteroid (\bar{u} -rip' t_e -roid), a. Having the characters of Eurypterus. A. S. Packard, Textbook of Entom., p. 6. Eurypterus beds. Same as Bertie *dolomite. eurythermal (\bar{u} -ri-ther'mal), a. [Gr. $\epsilon i p \rho i \varsigma$, wide, $+ \theta \ell \rho \mu \eta$, heat, $+ -a l^1$.] Capable of enduring great differences of temperature; found in localities which differ widely in temperature. localities which differ widely in temperature: contrasted with *stenothermal.

Some members of the epiplankton are, however, extra-ordinarily eurythermal and eurybathic; for example, Calanus finmarchicus ranges from 76° N. to 52° S. (ex-cepting perhaps for 10° each side of the equator), and is apparently indifferent to depth.

Encyc. Brit., XXXIII. 936.

eurythermic (ū-ri-thėr'mik), a. Same as eurythermal.

Two species proved to be purely epiplanktonic, both in the warm and cold areas, twelve were eurythermic and eurybathic, ranging from the surface to 700 fathoms in both areas.

Nature, Nov. 5, 1903, p. 23.

euryzygous (ū-riz'i-gus), a. [Gr. εὐρύς, wide, + ζυγόν, yoke.] With wide zygomatic arches.

Eusarcus (ū-sār'kus), n. [NL., < Gr. εὐσαρκος, fleshy, < Gr. εὐ, well, + σάρξ(σαρκ-), flesh.] Α genus of merostomatous Crustacea, of the famgenus of merostomatous Crustacea, of the tamily Eurypteridæ. It is characterized by having the first six abdominal segments greatly expanded and those following abruptly contracted. It occurs in the upper Silurian rocks of western New York.

Eusiphonacea (ū-sī-fō-nā'sō-ā), n. pl. [NL., ⟨ Gr. εὐ, well, + σίφων, a pipe, + -acea.] A superfamily of anomalodesmaceous Pelecytoda.

superfamily of anomalodesmaceous revery poda. It is characterized by the formation of a calcareous tube which may include one or both of the valves and is usually furnished with a perforated anterior disk. The division includes only two genera, Clavagella and Aspergillum, both of them fossil and recent.

Eusiphonia (ū-sī-fō'ni-ā), n. pl. [NL., < Gr. εὐ, well, + σίφων, pipe.] A section of the subfamily of anomalodesmaceous Pelecypoda characterized by long siphons and the position of

acterized by long siphons and the position of the lithodesma at the anterior end of the in-

sacterized by long sipuonate the lithodesma at the anterior end of the lithodesma at the anterior end of the ternal resilium.

eusitia (ū-si'gia), n. [NL., ⟨Gr. εὐ, well, + στος, food.] A normal appetite for food.

eusplanchnia (ū-sinagk'ni-k), n. [NL., ⟨Gr. εὐ, well, + σταλάγχνα, bowels.] A normal state of the internal organs.

Eustachian fossa. See *fossa1.

eustatic (ū-stat'ik), a. [Gr. εὐ, well, + στατός, ⟨iστασθα, stand.] Well established; not subject to subsidence or elevation; in equiliblication in equiliblication of land-areas.

- (a-kns), a. Same as same as subsidered by long in the internal organs.

- (a-kns), a. Same as subsidered by long in the anterior end of the link of the cells, or of their nuclei, of such a nature as to indicate the point at which a cuture evagination will be formed.

evangement of the cells, or of their nuclei, of such a nature as to indicate the point at which a cuture evagination will be formed.

Evangement of the cells, or of their nuclei, of such a nature as to indicate the point at which a cuture evagination.

Evangement of the cells, or of their nuclei, of such a nature as to indicate the point at which a cuture evagination will be formed.

Evangement of the cells, or of their nuclei, of such a nature as to indicate the point at which a cuture evagination, n.—Potential evagination,

the Mongolic broad (eurygnathous); the Negro prognations, thous; the Hottentot both pro- and eurygnathous.

**Reane, Ethnology, p. 181.

**Reane, Ethnology, p. 181.

**Reane, Ethnology, p. 181.

**In Huxley's classification of the croco- of avens.

**In Huxley's classification of the repevans-root (ev'anz-rot), n. [See *evans.]

**Line of the Crocodilia charties of the Crocodilia charties of the water-avens, Geum rivale. acterized by the unpaired and terminal nostril, which is internally prolonged and floored by a secondary palate. This group includes the modern crocodiles and the later fossil forms. eutaxic (ū-tak'sik), a. [Gr. εὐ, well, + τάξις, order.] Same as *quincubital. P. C. Mitchell, order.] 1899.

eutaxite (ū-tak'sīt), n. [Irreg. \(\circ eutax.y + -ite^2.\)]
In petrog., a name first applied by Fritsch and
Reiss (1868) to phonolitic rocks of Teneriffe,
but subsequently used for any lava possessing

eutaxitic texture.
eutaxy, n. 2. In ornith., the condition of a bird's wing when the fifth secondary is pres-

Eutectic alloy, eutectic point or tempera-ture. See *alloy, *point1. eutectoid (ū-tek'toid), a. and n. [eutect(ic) +

oid.] I. a. Exhibiting eutectic character.

II. n. A substance which behaves as a

entectic

euteria (ū-tek'si-ä), n. [Gr. εὐτηξία, ⟨εὐτηκτος, easily melted: see eutectic.] The property of fusing at low temperatures. See eutectic.

fusing at low temperatures. See eutectic.
euthanasian (ū-tha-nā'gi-an), a. [euthanasia + -an.] Relating to or marked by euthanasia.
eutheca (ū-thē'ka), n. [Gr. εὐ, well, + θήκη, case: see theca.] In corals, the true theca as distinguished from a pseudotheca, the former having true centers of calcification. Compare *pseudotheca. Philos. Trans. Roy. Soc. (London) ser B. 1806 p. 141

don), ser. B, 1896, p. 141.

euthecate (ū-thē'kāt), a. [eutheca + -ate¹.]

Characterized by the possession of a eutheca:
as, the euthecate corals. Annals and Mag. Nat.

Hist., Jan., 1904, p. 24.

eutherian (ū-thē ri-an), a. [Eutheria + -an.]

Pertaining to or having characters found in the Eutheria, or placental mammals.

Much depends upon future investigations in regard to the structure of the Eutherian ovum.

Encyc. Brit., XXX. 505.

euthycomi (ū-thik'ō-mī), n. pl. [NL., < Gr. εὐθις, straight, + κόμη, hair.] Individuals or types of man with straight hair, like the Mongols; a subdivision of the Lissotriches. Haeckel

euthytropic (ü-thi-trop'ik), a. [Gr. $\epsilon i\theta \dot{\nu}_{\zeta}$, straight, $+\tau \rho \dot{\sigma} n \sigma_{\zeta}$, direction.] A descriptive term suggested by J. Milne for those earthquake shocks whose vibrations are in the same direction as the line of transmission of the shock itself. Also euthutropic. Nature, 1881,

p. 100. (ū-tō'si-ā), n. [Gr. εὐτοκία, ζ εὐτοκος, bringing forth easily, ζ εὖ, well, + τεκεῖν, bring forth.] Normal childbirth.

Eutracheata (ū-trā-kē-ā'tš), n. pl. [NL., ζ Gr. ε', well, + τραχεία, trachea.] A group of Arthropoda including the insects and myriapods as distinguished from the tracheate Arachnida and the Prototracheata.

Eutuberaceæ (ḥ-tū-bẹ-rā'sṣ-ē), n. pl. [NL., < eu- + Tuberaceæ.] Same as Tuberaceæ.

euxenium (ūk-sē'ni-um), n. [NL., <Gr. εὐξενος, hospitable: see euxenite.] A supposed new element (or rather either of two, distinguished as euxenium I and II) announced by Hofmann and Prandtl in 1901 as present in the Norwe-gian mineral euxenite: said to resemble zirconium, but to differ from it in certain reactions.

Its existence is very doubtful.

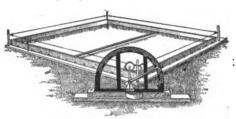
E. V. An abbreviation of Engineer Volunteers.

evacuator, n. 2. In surg., an instrument for removing fluid or solid particles from a cavity, as the detritus from the bladder after lithotrity.

evaginate (ē-vaj'i-nāt), a. [L. evaginatus, pp. of evaginare, unsheath, < e, out, + vaginare, sheath: see vaginate.] Pushed out or everted;

evans-root (ev'anz-röt), n. [See *evans.]
The water-avens, Geum rivale.

evaporation, n.—Heat of evaporation. Same **
*heat of vaporization.— Multiple-effect evaporation,
a process by which the latent heat of vapor given off
from one evaporating-vessel is utilized by applying it
to raise the temperature of the liquid in another vessel,
and so on, the vapor in each case being carried through
coils of pipe surrounded by the liquid to be heated.
Such an arrangement is much used in sugar-refining.
evaporation-tank (ë-vap-o-rš/shon-tangk), n.
A vessel or tank holding a large quantity of
water fully exposed to the sun and the wea-



Symons's Standard Evaporation-tank

A tank 6 feet square (rim. 3 inches aboveground) kept filled to a mark near the top; water, a feet deep. At one corner is the float and a semicircular scale with an index-finger, which shows the height of water in the tank.

It is used for measuring the evaporation from a representative natural surface of water.

Evaporative capacity, the capacity of a boiler or evaporator to convert water into steam. Evaporative capacity is usually stated in pounds of water per hour.

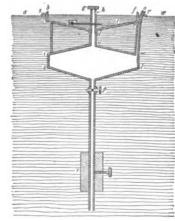
Evaporative efficiency, the ratio of the amount of water evaporated by a boiler per pound of coal burned, to the amount which it is theoretically possible to evaporate with the same pound of coal.

evaporator, n. 2. A device for evaporating water into steam. The necessary heat is derived from live steam or from the waste gases given off by a furnace used primarily for some other purpose. Such evaporators are used on shipboard to make steam from salt water, this steam being then condensed to furnish fresh water for the boilers or for culinary purposes.

3. A device, used in connection with gasolene-engines, to transform the liquid hydrocarbon into a gas or vapor by heat or by fine subdi-

engines, to transform the liquid hydrocarbon into a gas or vapor by heat or by fine subdivision in a current of air. Hiscox, Horseless Vehicles, p. 179.—Lillie evaporator, in sugarmanu!., an arrangement for rapidly evaporating canejuice in which, under progressively reduced pressure, the juice is sent through a series of tubes surrounded by steam.—Multiple-effect evaporator, a series of evaporators the first of which is heated by live steam from a boller, the second by steam generated in the first, the third by steam generated in the second, and so on. There are usually three or four evaporators in the series, and as the heat range is lowered it is usually necessary to lower the pressure on the surface from which evaporation occurs.

evaporometer, n.—Stelling's evaporometer, an arrangement for determining the amount of evaporation



Stelling's Evaporometer. a, a', natural surface of the pond, river, or ocean: b, c, d, e, f, evaporation-pan; f, thermometer: g, h, h, h, h, h, h, h, float full of air to support the water in the pan at the proper height: g, g, g, in to prevent insplashing from waves; f, weight to keep the metal framework upright; g, vent-pipe to allow the air in the float to expand and contract.

under natural conditions from a surface of water representing the surface of a river or lake. It consists essentially of an evaporation-pan supported within another pan and floating on the surface of the water. The amount of evaporation is measured either by weight or by volume.

evel, n.—St. John's eve, midsummer eve. See mid-

eve-eel (ëv'ēl), n. A common name of the conger-eel. [Eng.]
eve-jar (ëv'jär), n. Same as eve-churr.

Even or odd. (b) A way of betting or of settling who shall pay for something, as by calling the number of a bill (odd or even); or the number of matches held in the hand, even or odd. In the Spanish game of rondeau the players bet that the number of balls left on the table will be odd

evener, n. 4. An acid liquor used in coloring skins to obtain a uniform shade. Flemming, Practical Tanning, p. 73.

evening-snow (ev'ning-sno'), n. In California, a delicate herb, Linanthus dichotomus, related to Gilia. It opens its white flowers about four o'clock in the afternoon, closing them again in the morning. It is so abundant on open alopes as to whiten the ground. The flowers are salver-shaped, an inch wide, and oppressively scented.

Everglade State, the State of Florida.

evergreen. I. a.—Evergreen beech. See *beech1.
II. n.—Broad-leafed streen beech. See *beech.

II. n.—Broad-leafed
evergreen, an evergreen tree
or shrub with broad leaves,
chiefly dicotyledonous, such
as Maynotia factida, as distinguished from coniferous
trees with needle-shaped
leaves.—Bunch-evergreen,
the ground-pine, Lycopodium
obscur um.—Christmas
evergreen, Selaginella rupestris, a plant of wide distribution, often used for Christmas decoration. See Selagimass decoration. See Selaginella.—Coral-evergreen,
the common club-moss or running pine, Lycopodium
clauatum. See Lycopodium.—Swamp-evergreen, the
shining club-moss, Lycopodium lucidulum. See *clubmoss.—Trailing evergreen. Same as swamp-*evergreen.



everlasting. I. a .- Everlasting grass, the sain-

everlasting. I. a.—Everlasting grass, the sainfoin.

II. n.—Alpine everlasting, Antennaria alpina, a low floccose-woolly plant of northern North America, extending entirely across the continent and ranging from Colorado and California to the arctic circle.—Clammy everlasting, Gnaphalium decurrens, a rather tall glandular-visold American plant, having the narrow sessile leaves decurrent on the stem, whence it is called winged cudweed. Also called basam-weed and sweet balsam.—Early everlasting. Same as mouse-ear everlasting (which see, under mouse-ear).—Large-flowered everlasting, Anaphalium margaritacea, a widely diffused North American plant, also occurring in northern Asia and adventive in Europe; it is closely related to Antennaria and Gnaphalium, but has larger heads.—Life-everlasting, Same as vertlasting, applied to the same species, but particularly to Gnaphalium. G. obtusifolium is called fragrant or sweet life-everlasting on account of the balsamic odor emitted after the flowers have fallen.—Moor everlasting, Same as mountain dioica, a low floccose-woolly plant with relatively large heads, the flowers of which are sometimes pink; found in nearly all parts of North America, and also in Europe and Asia, especially in mountainous regions.—Mouse-ear everlasting. See mouse-ear.—Pearly everlasting.

(a) The mouse-ear everlasting (which see, under mouse-ear). (b) Same as large-flowered everlasting.—Flantain-leaf everlasting, the mouse-ear everlasting.

Evermannia (ev-èr-man'i-ä), n. [NL., named for B. W. Evermannia (ev-èr-man'i-ä), n.

Evermannia (ev-er-man'i-a), n. [NL., named for B. W. Evermann, an American ichthyologist.] A genus of small gobies distinguished by the naked body and elongate form: found on the Pacific coast of Mexico. E. zosterura

is the common species.

everniin (e-ver'ni-in), n. [Evernia + -in².]

A yellowish tasteless amorphous compound, C₆H₁₄O₇, found in certain of the lichens of the genus Evernia.

Eversible sacs or glands. See defensive

evertebrate (ē-ver'tē-brāt), v. t.; pret. and pp. evertebrated, ppr. evertebrating. [L. e-, out, + vertebra, vertebra, + -ate².] To deprive of backbone; hence, to render useless and ineffective.

evertor (ē-ver'tor), n. That which everts or rotates outward, as a muscle. Lancet, July 4, 1903, p. 56.

1903, p. 56.

Ree's apple, in Ceylon, a name applied by the English to the fruit of Ervatamia dichotoma (Tabernæmoniana dichotoma of Roxburgh), a small dichotomously branched tree belonging to the dogbane family. It has a milky latex, dark-green, coriaceous leaves, and fragrant white, salver-shaped flowers with yellow throat. The fruit consists of two distinct carpels, broadly ovoid when ripe, and orange yellow without. They contain numerous seeds surrounded by crimson pulp.—Eve's cup, the trumpetleaf or huntsman's-horn, Sarracenia flava.—Eve's darning-needle. Same as Adam's needle and thread, Yucca idiamentosa.—Eve's plant, the Spanish bayonet, Yucca aloifolia. See bayonet.

Evidence, n.—Self-regarding evidence, in law, evi-

evidence, n.—**self-regarding evidence**, in *law*, evidence for or against a party derived from statements made by or from the conduct of himself or his representatives. When in favor of the party it is called *self-serving evidence*,

and is generally inadmissible; when against him it is called self-disserving evidence, and is always admissible—
as an admission in a civil case, or as a confession in a criminal case.—Self-serving evidence, See self-regard.

off or make manifest by separation from a mixing kevidence.

evisceration, n. 2. In ophthalmol., removal of the internal parts of the eyeball, the sclerotic coat being left. Buck, Med. Handbook, I. 557.

evisceroneurotomy (ē·vis·e-rō-nū-rot'ō-mi), n. Evisceration of the eye with division of the optic nerve. Buck, Med. Handbook, I. 557.

evocative (ev'ō-kā-tiv). a. [evocate + -ive.] Tending or fitted to evoke or call forth.

evolute, n. II. a. Evolved; developed: as, an evolute curve.

evolutlity (ev'ō-lū-til'i-ti), n. [evolut(ion) + .ile + .ity.] The capability possessed by all living things of undergoing changes in form, size, or structure, as the result of the nutritive

size, or structure, as the result of the nutritive

evolutine (ev'ō-lū-tin), a. [evolut(ion) + -ine¹.] Of or pertaining to evolutility.

The evolutine cycle of tissues deprived of their intimate relations with nerves. Nature, Feb. 5, 1903, p. 336.

evolution, n.—Compound evolution, evolution in which the rate and course of progress in one aggregate or group is affected by the proximity and influence of another aggregate.—Determinate evolution, the doctrine or opinion that the modification of species excording to the principle of natural selection is guided into certain predetermined lines by a natural necessity, or by the adaptive acts of the organisms themselves. Emer.—Doctrins of evolution. (a) In embryot, in individual development or ontogeny, the doctrine or opinion that the generation of a living being from an egg consists in the unfolding, or evolution, or manifestation to sense, of the organization or specific constitution which is latent or potential in the egg: contrasted with or opposed to the doctrine that development is epigenesis, or new formation. The embryological doctrine of evolution has undergone many changes. In the seventeenth and eighteenth centuries most of its advocates regarded the germ as a compelie of the seventeenth and eighteenth centuries most of its advocates regarded the germ as a compelie of the seventeenth and eighteenth centuries most of its advocates regarded the germ as a compelie of the seventeenth and eighteenth centuries most of its advocates and elides are not as a compelier of the seventeenth of the seventeenth and eighteenth centuries and framagnetic of the visible organism, she held to be the distention of this miniature, and its manifestation to sense, by the inituses useption of nutritive material, without any change in the volume or in the organization of the essential living substance which exists, in its completeness, at all stages of development. Most of the present advocates of this view believe that while the germ has a fixed and definite architecture which controls and directs each step in the process of development, this architecture is different from and much simpler than that of the developed organism. Somehold that it is not the granism in so dar as it is from the first organism, but only its charact

ture or a compound: most commonly used of a gas or vapor: as hydrochloric-acid gas evolved from a mixture of common salt and wolved from a mixture of common salt and sulphuric acid.— 5†. In math., to extract (roots).

Evoxymetopon (e-vok*si-me-to'pon), n. [NL., (Gr. εὐ-, well, + ὁξὑς, sharp, + μέτωπον, brow.] A genus of cutlas-fishes of the family Trichiuridæ, found in the West Indies.

exact, v. 4. In Eng. law, to call (a party) in court to answer. When the party could not be found, he was exacted, usually five times at five successive county courts before being outlawed.

Exact differential. See *differential.

exaction, n. 3. (b) The calling of a party to answer. See *exact, v., 4.

exaggerational (eg-zaj-e-rā'shon-al), a. [exaggeration+-al.] Pertaining to or characterized by exaggeration; hyperbolical.

exalgin (ek-sal'jin), n. [Irreg. (Gr. ἐξ, out, + ἀλγος, pain, + -in².] The trade-name of methylacetanilide, recommended for medical use as an analgesic.

use as an analgesic.

Exall (eks al). Sold without any of the rights use as an analgesic.

ex all (eks ål). Sold without any of the rights or privileges that usually appertain to stocks or bonds, as, for example, the right to receive the maturing dividend (see ex div.), which is reserved to the sellers, or the right to participate in future issues. See *ex right. [Eng.] exaltado (ek-säl-tä'dō), n. [Sp., 'exalted'] In modern Spanish history, a member of a political party about 1820-22, which was extremely democratic in sentiment.

exaltation, n. 6. An abnormal mental condition marked by an overweening sense of self-

tion marked by an overweening sense of self-importance (amounting even to delusions of grandeur), an optimistic contentedness with one's surroundings or condition, and a state

almost of rapture or ecstasy. examin, v. A simplified spelling of examine. examinationist (eg-zam-i-nā'shon-ist), n. [ex-amination + -ist.] One who believes in or is an advocate of the system of basing appointments on fitness as ascertained by competitive examination.

Examination. Examination. Examination. Examination. Examination. Examination. Examination. In Examination. Examination. In Examination.

exanthema, n. 3. In bot., same as die-back.
exappendiculate (eks-ap-en-dik'ū-lāt), a. [L.
ex, out, + appendicula, appendage, + -atel.]

ex, out, + appendique, appendique, + -aic-1 Destitute of appendiques. exarteritis (eks-är-te-ri'tis), n. [NL., \langle Gr. $\dot{\epsilon}\xi$, out, + $\dot{a}\rho\tau\eta\rho\dot{a}a$, artery, + -itis.] Inflammation of the outer layer of the wall of an artery. exarthrosis (eks-är-thrô'sis), n. [Gr. $\dot{\epsilon}\xi$, out, + $\dot{a}\rho\theta\rho\sigma\nu$, joint, + -osis.] Dislocation of a inint

joint.

Exc. An abbreviation of excellency.

excalate (eks'kā-lāt), v. t.; pret. and pp. excalated, ppr. excalating. [ex-+ (inter)calate.]

To drop out; remove from a series: the opposite of intercalate.

There remains the assumption that vertebræ have been excalated in front of the pelvis. . . . Six vertebræ must have been excalated.

Philos. Trans. Roy. Soc. (London), ser. B, p. 342

excalation (eks-kā-lā'shon), n. [excalate + ion.] 1. The omission, dropping out, absence, or removal (of something) from a connected series: the opposite of intercalation.

Hence the supposition of excalation of vertebra in front of the girdle [of Mustelus vulg.] leads also to the necessary corollary that a vast amount of both inter- and ex-calation must go on at another spot.

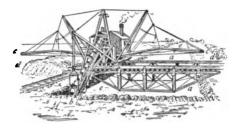
Philos. Trans. Roy. Soc. (London), 1900, ser. B, p. 343.

Specifically-2. The absence, in a race of organisms, of any element in a series of homolo-gous parts, such as a limb or a pair of limbs in an arthropod, or of a vertebra in the spinal column of a vertebrate, considered as evidence that the part in question has been lost or suppressed. *Nature*, Dec. 21, 1898, p. 171. Nature, Dec. 21, 1898, p. 171.

excavating-pump (eks'kā-vā-ting-pump), n.

1. A pump used to keep down water in excavations and trenches.—2. A pump used for excavating or removing soft materials or emptying cesspools.

EXCAVATOT, n. (c) A modified form of dredging-machine used in digging irrigation canals. It consists of schain-and-bucket conveyer mounted on a trolley that moves on rails laid on a traveling crane. Tracks are laid on each side of the canal, and upon these the crane moves. The conveyer, supported by a derrick, cuts into the soil. both below and above the water, and lifts it to chutes that discharge it on the banks at each side. Since the conveyer



a, crane, traveling on tracks (outboard track not shown); b, bucket-conveyer; c, spoil-chutes to spoil-banks; a, spoil-banks; e, excavated canal.

travels on the crane transversely to the length of the canal all the soil can be excavated and the crane advanced on the tracks as fast as the canal is dredged out.

excelsin (ek-sel'sin), n. [L. excelsus, high, +-in.2] A crystalline globulin contained in the

Brazil nut.

Brazil nut.

excelsior, n. 2. A printing-type, now known as 3-point—about 24 lines to the inch. It is too small for letters, but is used for characters of music, piece fractions, and border decorations. See type, 8.—Excelsior machine, in wood-working, a machine for planning wood into excelsior. It is a simple form of vertical planer, using reciprocating cutters driven at a high speed.

exception, n.—Declinatory exception, in the civil law of Louisians, a dilatory exception which denies the jurisdiction of the court before which the matter is brought—Presimptory exception, in the civil law of Louisians, one intended to cause the dismissal of the action.

excitor (ek-si'tor), n. Same as exciter; specifically, a nerve, stimulation of which excites to greater action in the part supplied.

excitosecretory (ek-si'to-së-krë'tō-ri), a. Causing increased secretion.

excl., exclam. Abbreviations of exclamation.

Exclusive inheritance. See *inheritance.

Ex. Com. An abbreviation of executive committee.

Exclusive inheritance. (eks-krë-men-tiv), a. [excrement + -ive.] Pertaining to or forming excrement.

excernent (ek-ser'nent), a. [L. excernens ent-), ppr. of excernere, separate: see excern.] Same as excretory.

Same as excretory.

EXCESS, n.—Excess fare. See */arel.—Principle of motor excess, in psychophys, the principle that "pleasure and pain can be agents of accommodation and development only if the one, pleasure, carry with it the phenomenon of motor excess [helghtened nervous energy], and the other, pain, the reverse—probably some form of inhibition or of antagonistic contraction. "J. M. Baldwin, Mental Develop., p. 189.

EXCESSORY (ex-ses*\(\tilde{0}\)-ri), a. [excess + -ory.] Of the nature of excess; produced as a residual or by-product. J. E. Cairnes, Leading Printof Polit. Econ., p. 128.

Exchange, v. i. 2. To go, by exchange with another officer, from one regiment or branch of service to another.

service to another.
exchange, n. 12. A mutual transfer of two
officers in different regiments or branches of

the service.

Transfers and exchanges under this paragraph will be immediately reported to the War Dep't.

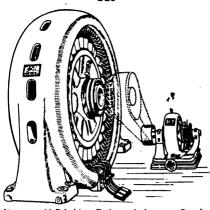
13. In chess, the advantage of having a rook against the opponent's knight or bishop.—Postexchange, a store at a military post under the management of the military authorities: also called a canteen.

To gain, win, lose the exchange, in chess, to win or lose a rook for a knight or bishop.

Excipula (ek-sip'ū-lā'), n. [NL. (Fries, 1825), \(\) L. excipulame, a vessel, NL., an exciple: see exciple.] A genus of Fungi Imperfecti, type of the family Excipulacese. having black membranous or leathery, somewhat cup-shaped pycnidia, with a simple opening. The spores are elongate, hyaline, and one-celled. The species occur on dead stems of plants.

Excipulacese (ek-sip-ū-lā'sē-ē), n. pl. [NL., \(Excipula + -aces. \)] A family of Fungi Imperfecti of the order Sphæropsidales, having more or less cup-shaped black pycnidia either smooth or bearing bristles. Named from the genus Excipula.

excisor (ek-sī'zor), n. One who or that which



Alternator with Belt-driven Exciter. A. alternator: B. exciter.

crement.

excretin (eks' krē-tin), n. [L. excretus (see excrete) + $-4n^2$.] A crystalline body of the composition $C_{20}H_{36}O$, which has been especially obtained from the feces of herbivorous animals. It is supposed to be closely related to cholestoric.

excretophore (eks-krē'tō-fōr), n. [L. excreta, excreta, + Gr. -φορος, ζ φέρειν, bear.] A cell which serves to carry excreted matter away from the body.

the family Excipulacese, having black membranous or leathery, somewhat cup-shaped pyonidia, with a simple opening. The spores are elongate, hyaline, and one-celled. The species occur on dead stems of plants.

Excipulacese (e.sip-ū-lā'sē-ē), n. pl. [NL., \ Excipula + -aces.] A family of Fungi Imperfecti of the order Spheropsidales, having more or less cup-shaped black pyenidia either smooth or bearing bristles. Named from the genus Excipula.

Excisor (ek-si'zor), n. One who or that which excises.

Excipula, excisor, (ek-si'zor), n. One who or that which excises.

Excipula, excitation, n.—Law of polar excitation. See the extract.

Pflüger stated his law of polar excitation as follows ("Untersuchungen." 8. 459: "A given stretch of a nerve is irritated by the development of anelectrotonus."

Excitated by the development of catelectrotonus and the disappearance of anelectrotonus or the development of anelectrotonus."

Excite v. t. 5. In electric machinery, to send current through the magnetism required for the operation of the magnetism required for the operation of the magnetism.

Exciter, n. 3. Inelect., the dynamo-electric machine, battery, or other apparatus, which supplies current to energize the magnetic fields of other electric machines.—Betted exciter, an exciter driven by a belt from the machine which it excites.—Compensating exciter, an exciter directly connected and in synchronian with the alternater.—Betwin exciter, an exciter directly connected and in synchronian with the alternater, for the purpose of compensating exciter, an exciter directly connected and in synchronian with the alternater, an exciter of the amagnetic fields of other electric machines, and who are provided to administer a part of an executor, in law, on expenditude executor, in law, an executor, nominated and appointed in the will of the testator, as distinguished executor, in law, an executor, nominated and in the will of the executor, who is the expension of the machine.

Excenting (see the magnetic field of the substituted executor

C will not act, then D, etc. B is the instituted executor.
C is said to be substituted in the first degree, D in the second degree, etc.
EXECX. A contraction of executrix.

exect. A contraction of executivities.

executive for antique (a) A leader; guide; teacher; expounder. (b) In Athens, an interpreter of religious law and regulator of ceremonies. The office was confined to the aristocracy.

Exelissa (eks-ξ-lis'š), n. [NL., said to be (irreg.) (Gr. ἐξελίσσειν, unroll, 〈 ἑξ, out. + ἐλίσσειν, roll.] A genus of platypodous gastropod Mollusca, with small turreted shells, having continuous transverse ribs, spiral stries, and contracted aperture without canal and with continuous peristome. It is of Jurassic

exenteritis (ek-sen-te-ri'tis), n. [Gr. εξ, out, + εντερον, intestine, +-itis.] Inflammation of the peritoneum covering the intestines.

exercize, n. and v. A simplified spelling of exercise.

exhale, v. i. 2. To pass through in the form of drops; coze: noting especially bleeding from a surface in the absence of any wound. from a surface in the absence of any wound.

exhaust, n. 3. A pump, fan, or other device for removing air from a building, enclosure, or receptacle, by lowering the pressure in the egress-pipe or flue.—Exhaust mfill. See **tumbling-mill.—Point of exhaust, that point in the stroke or in the cycle of processes in an engine-cylinder at which the valve opens to release from the cylinder the contents which have done their work of driving. It should, theoretically, be just at the point when the crank and piston are at the dead center. In high-speed engines, to compensate for the inertia of the material, the release may take place just before the end of the stroke. See release, 5.

exhaust-gas (eg-zâst'gas), n. The products of combustion due to the firing of the charge in the cylinder of an internal-combustion engine.

engine.

exhaust-head (eg-zāst'hed), n. A device for diminishing the noise from the exhaust-pipe of aiminishing the noise from the exhaust-pipe of a high-pressure engine, and for entrapping any water or oil which would otherwise be ejected with the outgoing steam. These heads are usually conical in form, so that the steam shall expand in volume and diminish in velocity as it reaches its vent. Helical and radial baffe-plates separate out water and oil, and convey the latter to convenient separators, and the dry steam issues in a steady stream over a large area, instead of in a succession of puffs with attendant noise.

exhaustion, n.—Nervous exhaustion. Same as

neurasthenia.

exhaustion-method (eg-zâs'tyon-meth'od), n. In psychol., a method for the determination of the elementary qualities of olfactory sensation. The nose is exhausted, by continued smelling, for a given odor: then another odor is presented. The assumption which underlies the method is that if the second odor is qualitatively different from the first it will be sensed, despite the exhaustion of the organ for the first odor; while if the second odor belongs to the same qualitative group as the first, it will not be sensed at all, or will be sensed weakly and imperfectly. E. B. Titchener, Exper. Psychol., I. 1. 78.

exhaustion-time (eg-zås'tyon-tim), n. Iu psychophys., the average time required to exhaust the olfactory organ for a given odor. See *exhaustion-method.

See *exhaustion-method.

exhaust-jacket (eg-zāst jak'et), n. A chamber in or around any part of an engine within which exhausted products from the cylinder are circulated to utilize heat which would otherwise be wasted. Encyc. Brit., XXVIII. 190.

exhaust-lap (eg-zāst'lap), n. The amount by which the edges of the working face of the slide-valve of a steam-engine project over the inner edges of the ports when the valve stands in its central position, symmetrical with the ports. Such an overlap on the exhaust edges of the valve.

in its central position, symmetrical with the ports. Such an overlap on the exhaust edges of the valve prevents the steam from escaping prematurely from the expanding volume on the working side, and closes the delivery-port to the exhaust-passage before the piston reaches the end of its traverse, so as to imprison some steam behind the piston, whose compression acts as a cushion to bring the reciprocating masses to rest.

exhaust-lead (eg-zåst'lēd), n. The amount by which the exhaust-port of an engine is opened, or release occurs, before the end of the pressure-

or release occurs, before the end of the pressurestroke.

exhaust-line (eg-zāst'līn), n. The line on an indicator-diagram from a steam or other engine which is traced by the pencil or point of the instrument when the pressure in the cylinder is that existing when the exhaust-valve is open and the engine-piston is making its return stroke with the driving steam in that end of the cylinder which is not connected with the indicator.

exhaust-mill (eg-zåst'mil), n. 1. A mill having hollow journals or an opening at one end to which an air-pipe with an exhaust-fan is fitted

for the purpose of drawing dust or moisture out of the mill when it is in operation. 2. Same as *tumbling-mill.

exhaust-opener (eg-zåst'ōp'ner), n. In cotton-manuf., a machine in which an exhaust-fan is employed for opening cotton as it comes from the bale. Taggart, Cotton Spinning,

exhib. An abbreviation of the Latin exhibeatur. 'let it be given.' [Used in med. prescriptions.] exhibitionism (ek-si-bish'on-ism), n. [exhibition+-ism.] A form of sexual perversion characterized by exposure of the person to others, without any attempt at concealment or any evidence of shame.

From time to time the Alienist and Neurologist is consulted by cases of exhibitionism which are as much a surprise to the unfortunate victims as to the astonished public and startled courts.

Alien. and Neurol., Aug., 1904, p. 347.

exhibitionist (ek-si-bish'on-ist), n. A degenerate who obeys a morbid impulse to expose the person.

erate who obeys a morbid impulse to expose the person.

ex hypothesi (eks hi-poth'e-si). [NL.] 'From the hypothesis'; according to the hypothesis; hypothetically; supposedly; assumed to be.

exilarch (ek'si-lärk), n. [L. exul, an exile, + Gr. apxoc, chief. The word translates Aram. rēsh galuta 'chief of the captives.'] The chief of the Babylonian Jews after the destruction of the temple and until the tenth century A. D. The exilarch exercised great authority not only over the Jews of Babylonia, but in all other countries, levying taxes and exercising other similar powers.

exile-tree (ek'sil-tre), n. The quashy-quasher, Thevetia Thevetia. See Thevetia.

existence, n. 5. In logic, presence in the universe, system, or total collection of individual objects considered. A class is said to exist when an individual of the class occurs in the universe considered; a relation is said to exist when set of individuals in the universe is in that relation. Consequently such relations as incompossibility, refuting the existence of, and the like, although they are in a sense relations (better called pseudorelations), do not possess existence. On the other hand the relation of adjectives to corresponding abstract nouns, and other similar relations, refer at once to two different universes, the one of actually existing things, the other of possible symbols, and may thus be admitted to possess existence relatively to a second universe.—Existence theorem. See *theorem.

existential, a. 3. Pertaining to external and accidental characters.

exit, n. 4. In phonetics, an off-glide or vanish.

exit, n. 4. In phonetics, an off-glide or vanish.

A somewhat less gentle exit of the isolated vowel. Scripture, Exper. Phonetics, p. 430-

nd. See *wound.—Pupil of exit. Same as *disk. Exit wound.

exite (ex'īt), n. [Gr. έξω, outside, + -ite². Cf. endite.] A process on the outer border of the leaf-like abdominal appendage of a phyllopod crustacean. A. E. Shipley, Zoöl. of Invertebrates, p. 260.
exit-pupil (ek'sit-pū'pil), n. In a lens system, the optical image of the entrance-pupil, which is formed by the whole system of lenses. It is also the image of the stop, formed by that portion of the lens system which lies between the stop and the image space. In instruments designed for visual use the eye of the observer should coincide in position with the exit-pupil. See interfusion *disk.*
exitus, n. 2. Termination of a disease: usually an unfavorable ending: as, lethal exitus.—3. The external opening of a canal; meatus.

The external opening of a canal; meatus.—S.

ex-libriam (eks-li'brizm), n. [ex-libr(is) + -ism.]

The collecting and study of book-plates.

ex-librist (eks-li'brist), n. [ex-libr(is) + -ist.]

A collector of ex libris or book-plates.

If, on the one hand, the more enthusiastic "ex-librists" (for such a word has actually been coined) have made the somewhat ridiculous claim of "science" for "ex-librisme," the bitter animadversion, on the other, of a certain class of intolerant bibliophiles upon the "vandalism" of removing book-plates from old books has at times been rather extravagant.

Encyc. Brit., XXVI. 306.

exmeridian (eks-mē-rid'i-an), a. [L. ex, out, + E. meridian.] Not in the meridian: denoting observations or objects. See *extramerid-

ian. [Rare.]

Excascacese (ek'sō-as-kā'sē-ē), n. pl. [NL., <
Excascus + -aceæ.] A family of parasitic ascomycetous fungi, named from the genus Excascus, having the asci borne free on the host and forming no distinct membrane beneath. See *Exoascus.

Exoascales (ek'sō-as-kā'lēz), n. pl. [NL., <
Exoascus + -ales.] An order of ascomycetous
fungi, having the asci borne free and separate
on the surface of the host. It contains two
families, Ascocriticalese and Exoascaces.

exoascous (ek-sō-as'kus), a. [Gr. εξο, outside, + ἀσκός, a bag (see ascus).] Having the asci

free, as in the order Exoascales. Encyc. Brit., XXVIII. 558.

Exoascus (ek-sō-as'kus), n. [NL. (Fuckel, 1860), \langle Gr. $\dot{\epsilon}\dot{\epsilon}\omega$, outside, + $\dot{a}\sigma\kappa\dot{o}c$, bag (see ascus).] A genus

parasitic gi, typical the family fungi, Exoascaceæ: 80 named because the asci are pro-duced in a thin layer on the surface of the host. face of the host. The myceilum is perennial, and the asci are 4- or 8-spored. The species occur mostly on fruits, causing enlargements and other deformities. Eruni is a common species, attacking plums and producing plum-pockets.

Exobasidiacse (ek*55-bā-sid-i-ā'sē-ō), n. pl.

 $\tilde{\mathbf{a}}'s\tilde{\mathbf{e}}-\tilde{\mathbf{e}})$, n. pl. [NL., \langle Exobasidium + -aceæ.]

Plums affected by this fungus are devoid of stones and bear the fungus spores on their surfaces. 4, branch, one fourth natural size: \(\delta\). cross section of a raffected plum, two thirds natural size; \(\delta\), young asci: \(d\), mature ascus (enlarged). (Drawn from Engler and Prantis "Pfanzenfamilien.")

A family of parasitic basidiomycetous fungi, named from the genus Exobasidium and having the same general characters.

Bxobasidiales (ek²sō-bā-sid-i-ā'lēz), n. pl. NL., < Exobasidium + -ales.] An order of parasitic basidiomycetous fungi, containing the single family Exobasidiacese.

Exobasidium (ek'sō-bā-sid'i-um), n. [NL. (Woronin, 1867), \langle Gr. $\xi\xi\omega$, outside, + NL. basidium.] A genus of parasitic basidiomycetous fungi, having 4-spored basidia breaking through the epidermis of the host and forming this parasitic basid forming the same forming of the same forming the ing a thin whitish coating. The species attack eri-caceous plants chiefly, producing gall-like formations. En Azalese occurs frequently on Azales ithe fleshy galls formed are called may-apples. See honeysuckle-apple.

exocannibalism (ek-sō-kan'i-bal-izm), n. [Gr. $\xi\xi\omega$, outside, + E. cannibalism.] The custom of eating the flesh of strangers. Deniker, Races of Man, p. 148. exocardia (ek-sō-kār'di-ā) n. [NL., \langle Gr. $\xi\xi\omega$, outside, + $\kappa a \rho \delta i a$, heart.] Displacement of the heart.

Exoccipital fissure. Same as *ape-fissure. **exocephalous** (ek-sō-sef'a-lus), a. [Gr. $\xi \xi \omega$, outside, $+ \kappa \epsilon \phi a \lambda \dot{\eta}$, head.] Pertaining to or having the characteristics of the *Exocephala*. **exocerite** (ek-sos'e-rīt), n. [Gr. $\xi \xi \omega$, outside, $+ \kappa \epsilon \rho a c$, horn, $+ -i \epsilon c^2$.] In crustaceans, a scale-like structure borne by the second joint of an enterpolar. antenna.

exochorion (ek-sō-kō'ri-on), n.; pl. exochoria (-š). [Gr. εξω, outside, + χόριον, chorion.] 1. In embryol., the outer or ectodermal layer of the chorion in the mammalian embryo.—2.

The outer layer of the chorion of an insect's egg. A.S. Packard, Text-book of Entom., p. 520.

exoclinal (ek-sō-kli'nal), a. [exoclin(e) + -al.] In geol., pertaining to or of the nature of an exocline.

exocline (ek'sō-klīn), n. An inverted fan-fold,

or a fan-structure of synclinal type. Lapworth, in Geol. Mag., VI. 62.

Exocale (ek'sō-sēl), n. [Gr. έξω, outside, + κοίλος, hollow.] The portion of the collenteron or gut-cavity of a hexactinian polyp which lies between different pairs of mesenteries; the intermesenterial space: opposed to *entocæle.

The two first pairs appeared within the dorsal exocales, the moleties of each pair arising at the same time and remaining equal; the two next pairs were within the middle exocales; and finally appeared the pairs within the ventral exocales.

Biol. Bulletin, July, 1904, p. 84.

exocœlic (ek-sō-sē'lik), a. In actinians, of or pertaining to an exocole: as, the exocolic tentacles. Compare *entocolic. Trans. Linnean Soc. London, Zoöl., Oct., 1902, p. 302.

exoccoloma (ek'sō-sē-lō'mā), n.; pl. exoccolomata (-ma-tā). [Gr. $i \xi \omega$, outside, $+ \kappa ol\lambda \omega \mu a$, a hollow, cavity: see $c \infty loma$.] In embryol., that portion of the coloma, or true body-cav-

that portion of the cœloma, or true body-cavity, which lies in the extra-embryonic region of the vertebrate embryo.

exoderm (ek'sō-dèrm), n. [Gr. $\xi\xi\omega$, outside, + $\delta \ell \rho \mu a$, skin.] 1. Same as epidermis.—2. Same as ectoderm.—3. The external crust of the body of an insect. N. E. D.

exodermis (ek-sō-dèr'mis), n. [NL., \langle Gr. $\xi\xi\omega$, outside, + $\delta\ell\rho\mu a$, skin.] The outermost cor-

tical layer of the root corresponding to the

tical layer of the root corresponding to the hypoderma of the stem. See hypoderma. exogamy, n. 2. In bot., the tendency of closely allied gametes to avoid pairing.
exogastric (ek-sō-gas trik), a. [Gr. έξω, without, + γαστήρ, the belly.] In the tetrabranchiate cephalopods, having the ventral sinus on the arched external side of the shell, as in the Nautilus: contrasted with *endogastric (which see) (which see).

exogastrula (ek-sō-gns'trŏ-lä), n.; pl. exogastrulæ (-lō). [NL., ⟨Gr. ἐξω, outside, + NL. gastrula.] An abnormal kind of gastrula. progastrula.] An abnormal kind of gastrula. produced by a bulging out (instead of an invagination) of the vegetative pole of the blastula. exogenesis (ek-sō-jen'o-sis), n. [NL., ⟨Gr. εξω, outside, + γένεσις, origin.] Origin from without: said of a disease arising from external causes. Jour. Trop. Med., July 15, 1903, p. 227. exogenic (ek-sō-jen'ik), a. [As exogen + ·ic.] Originating outside of the body; exogenetic. exogenous, a. 3. In geol., applied by Von Humboldt to extrusive, volcanic rocks, in contrast to endogenous rocks. See *endogenous, 3. exogeny (ek-soj'e-ni), n. [Gr. εξω, outside, + ·γενεια, ⟨-γένης, -born.] 1. Same as exogamy.

—2. In sporozoans, sporulation taking place after the cyst has left the host, as in Gregarinida and Coccidiidea generally. See *endogeny. exogynous (ek-soj'i-nus), a. [Gr. εξω, outside, + γυνή, female (style), + -ous.] Having the style or styles exserted.

style or styles exserted.

exohysteropexy (ek-sō-his'te-rō-pek-si), n.
[Gr. έξω, outside, + ἰστέρα, uterus, + πῆξις, fastening.] In surg., operative fixation of the uterus beneath the fascia of the anterior abdominal wall outside of the peritoneal cavity.

exolemma (ek-sō-lem'š), n.; pl. exolemmata (-a-tš). [NL., < Gr. έξω, outside, + λέμμα, seale.] In histol., a very delicate tubular sheath surrounding the endolemma, which in turn incloses the axial fiber in the tail of certain spermatozoa, like those of Helix pomatia.

exometritis (ek'sō-mē-trī'tis), n. [NL., < Gr. έξω, outside, + μήτρα, uterus, + -itis.] Inflammation of the peritoneal covering of the uterus.

exomorphic (ek-sō-môr'fik), a. [exomorph(ism) + -ic.] In petrog., belonging to or having the characters of exomorphism. Amer. Jour. Sci., April, 1903, p. 280.

April, 1903, p. 280.

Exomorphism (ek-sō-môr'fizm), n. [Gr. $\xi\xi\omega$, outside, $+\mu\omega\rho\phi$, form, +-ism.] In petrog., that variety of contact-metamorphism which is developed, in the surrounding walls, by an intruded mass of eruptive rock. The commoner changes produced in the metamorphosed rock are induration and cementation in some cases, recrystallization (the conversion of carbonates into silicates) in others, etc.: contrasted with *endomorphism, or the effects, chiefly those of chilling, produced upon the border of the eruptive itself.

tive itself. **exomphalous** (ek-som'fa-lus), a. [Gr. $i\xi\delta\mu\phia\lambda\delta c$, having a prominent navel, $\langle \ \xi\xi, \ \text{out}, + \delta\mu\phi\alpha\lambda\delta c$, navel.] Relating to or having an umbilical hernis or projecting navel. N. E. D. **Exon**² (ek'son), n. [NL. Exonia, Exeter.] A native or inhabitant of Exeter, England. **Exonautes** (ek-sō-nâ'tez), n. [NL., $\langle \ \text{Gr. } \xi\xi\omega, \ \text{outside}, + \nu\alpha\delta\eta\eta c$, sailor.] A genus of flying-



(From Bulletin 47. U. S. Nat. Museum.)

fishes of the family Exocetidæ, which have both pectoral and ventral fins developed as wings and the anal fin as long as the dorsal. E. rondeleti is a common species of the At-

lantic.

1. exocalo
exophoria (ek-sō-fō'ri-ā), n. [Gr. ἐξω, outside.

+ κοίλωμα, + -φορια, < -φορος, < φέρειν, bear.] A condition

embryol., depending upon imbalance of the ocular

body-cavnic region

cuside, + April 18, 1903, p. 607.

-2. Same exophoric (ek-sō-fō'rik), a. Relating to or

of the body characterized by exophoria.

exophoric (ek-so-io rik), a. Relating to or characterized by exophoria.
exoplutonic (ek'sō-piộ-ton'ik), a. [Gr. ἐξω, outside, + Ε. plutonic.] In geol., formed or made up of originally plastic rock-material

that has been extruded, intruded, or protruded

from deep-seated subcruss...

tonic hypothesis, the assumed exoplutonic one certain rocks.

exoplutonism (ek-sō-plö'tō-nizm), n. The process of forming or exposing rock-formations by exoplutonic activity.

exopod (ex'ō-pod), n. [Gr. ἐξω, outside, + πους (ποὐ-), foot.] An exopodite.

Exopterygota (ek'sop-ter-i-gō'tš), n. pl. [NL., Gr. ἐξω, outside, + πτερυγωτός, winged.] A superorder of insects characterized by having all stages of wing development entirely example. It includes the Orthoptera, Odonata, It includes the Ortho

exopterygote (ek-sop-ter'i-gōt), a. and n. [Gr. t̄ςω, outside, + πτερυγωτός, winged.] I. a. Pertaining to or having the characters of the Exopterygota; having the wings developed outside of the body.

side of the body.

If. n. A member of the Exopterygota.

exopterygotic (ek"sop-ter-i-got'ik), a. Same as *exopterygote.

exopterygotism (ek"sop-ter'i-gō-tizm), n. The development of wings outside the body, as with the Exopterygota. Encyc. Brit., XXIX.

exopterygotous (ek'sop-ter-i-gō'tus), a. Same

as *exopterygote.

exorbital (ek-sôr'bi-tal), a. [L. ex, out, + orbita, orbit, + -al.] External to or beyond the orbit: as, exorbital protrusion of the eyeball.

exorcistic (ek-sôr-sis'tik), a. [exorcist + -ic.]
Of or pertaining to an exorcist, or exorcism: used or practised by exorcists: as exorcistic adjurations.

exorcize, v. t. Another spelling of exorcise.
exosepsis (ek-sō-sep'sis), n. [NL., ⟨ Gr. εξω, outside, + σήψω, putrefaction: see sepsis.]
Sepsis excited by a poison introduced from without, as opposed to *endosepsis or *auto-

toxemia.

exoseptum (ek-sō-sep'tum), n.; pl. exosepta (-tā). [NL., ⟨ Gr. εξω, outside, + L. septum, sæptum, partition.] One of the calcareous septa which make their appearance in an exocole of a coral polyp. Biol. Bulletin, July, 1004 p. 82.

exosporangial (ek'sō-spō-ran'ji-al), a. Having the sporogenic organs without an integument of hyphæ, as in fungi of the family Mucoracese.

Antithetical to these are the remaining, or exosporangial, Zygomycetes, as they were termed by Brefeld.

Lafar (trans.), Technical Mycology, IL 66.

exostosis, n.—Ivory exostosis, a bony tumor of extreme density.

ing a fortified town.

exotentacle (ek-sō-ten'ta-kl), n. [Gr. εξω, out-side, + NL. tentaculum, tentacle.] In actini-aus, a tentacle arising from an exocœle.

It is worthy of note in this connection that the exotentacles in Siderastrea radians have been found to appear throughout in advance of the entotentacles, being the only zoantharian in which this relationship is known to occur.

Biol. Bulletin, July, 1904, p. 88.

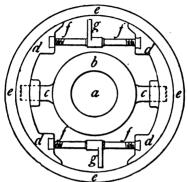
exotherm (ek'sō-therm), n. [Gr. $\xi\xi\omega$, without, + $\theta \epsilon \rho \mu \eta$, heat.] In chem., a compound substance in the formation of which from its con-

stance in the formation of which from its constituents heat is evolved, and in its decomposition, energy (frequently heat) is absorbed. **exothyropexy** (ek'sō-thi'rō-pek-si), n. [Gr. $t \xi \omega$, outside, $+ \theta t \rho a$, door (see thyroid), $+ \pi \eta \xi \omega$, fastening.] Dissection of the thyroid gland from its bed and fixation of it on the surface: an operation for the relief of goiter, by inducing atrophy of the thyroid gland without its entire destruction.

exotospore (ek-sö'tō-spōr), n. [Gr. $\varepsilon \xi \omega \tau (u \delta c)$, foreign (see exotic), + $\sigma \pi o \rho \delta$, seed (spore).] One of the minute bodies (sporozoites) which form a stage in the development of malarial parasites, introduced into the body by the bite of a mosquito the body by the bite of a mosquito (Anopheles). Each is slender, almost filamentous in shape, sharply pointed at each end, and thicker in the middle where the nucleus is lodged. Lankester.

exotropia (ek-sô-trô 'pi-š), n. [NL., Gr. εξω, outside, + -τροπια, ter's "Zoology.")

< τρόποι, < τρέπειν, turn.] An



Expanding Clutch.

a, shaft; b, hub keyed or otherwise fastened to a; c, c, arms or spider fitting loosely in the pads or drum-segments d, so that the latter may nove radially outward; c, e, c, e, the internal ring surface or drum against which d, d, d, press and to which is attached the part to be driven from a when the clutch is engaged; f, f, right and left-hand screws by which d, d, d, d, are separated or brought together; f, f, arms by which f, f, are turned through the angles necessary by means of which produce the contraction of the contra

a part which bears against the inner cylindrical surface of a rim. The expanding is usually done by pushing a cone between the parts it is desired to force outward, or by wedging apart the segments of a cylinder which is split at one or more points to allow this action.—Expanding cultivator, hanger, pulley. See *cultivator, etc.

in a plate or sheet so that the joint shall be steam-or water-tight under pressure. The tube is inserted in the hole, which it fits closely but so as to slide or be driven into place. Then within the tube is inserted the expander, having rollers which can be forced out radially against the inside of the tube while they are revolved in place. This pressure rolling-action enlarges the tube and forces its outer surface against the walls of the hole. The end of the tube is usually also headed over. **Expansion**, n. 7. In ship-building, a drawing in which a curved or warped surface, as a ship's outside plating or a longitudinal is laid ship's outside plating or a longitudinal, is laid out or expanded on a plane surface by conventional methods to show approximately the out or expanded on a plane surface by conventional methods to show approximately the true relations and dimensions of the parts.—

Adiabatic expansion, the increase in volume of a gas when no heat is added to it from without to do the mechanical work of overcoming the external resistance, so that the gas has less intrinsic energy than when expansion began. The gas will be at a lower temperature at the end of the expansion than when it began, and hence the pressure will be less for a given increase of volume than in isothermal expansion.— Expansion by stages, the process of expansion used in compound engines in which the gas or vapor is introduced successively into cylinders of greater and greater size as the pressure decreases. The process is called two-stage expansion, three-stage expansion, etc., according to the number of stages.—Initial expansion, the expansion of water into steam which occurs in a boiler when the valve is opened to supply steam to the engine-cylinder. It is an amount sufficient to fill the cylinder and its clearance-volume up to the point at which cut-off takes place.—Irreversible expansion, an expansion which takes place in such a manner that, by reversing the operation, compression will not be obtained; so, the expansion of steam through a nozle is a case of irreversible expansion.—Isothermal expansion, the increase or volume of a gas when the pressure varies inversely as the volume, and the temperature is kept constant during all such changes. The gas follows the law of Mariotte or Boyle.

The ideal motor for using compressed air is one which will supply heat to the air as it is required in expanding.

gas nonows the law of Mariotte or Boyle.

The ideal motor for using compressed air is one which will supply heat to the air as it is required in expanding. This is called *Isothermal Expansion*, and is often attained, and sometimes exceeded, in practice by supplying heat artificially.

**Encyc. Brit.*, XXXI. 899.

Maclaurin expansion. Same as Maclaurin's theorem (which see, under theorem).

expansion-box (eks-pan'shon-boks), n. A reservoir placed in a gas-line close to an engine with complete years, and is computed to be about six months less than the actual expectancy in any individual case.—Error of expectation. See **error.*

expansion-cock (eks-pan'shon-kok), n. A valve or cock for regulating the flow of a gas so as to provide for a given amount of expansion when it has resead the valve. Such ax-

sion when it has passed the valve. Such expansion-cocks are used for regulating the ex- expense (eks-pens'), c. t.; pret. and pp. expansion of ammonia in a refrigerating-system. pensed, ppr. expensing. To charge or debit

exaggerated exophoria amounting to actual expansion-coupling (eks-pan'shon-kup"ling), n. An expansion-joint; a device for connecting two lengths of pipe so that they are free to expand and contract as the temperature changes.

expansion-fabric (eks-pan'shon-fab'rik), n. In petrog., the arrangement of microscopic crystals in a layer about a phenocryst in a porphyritic rock, indicating that they have been crowded back into the solution by the expansion of the phenocryst in crystallizing. Pirsson, 1899.

expansionism (eks-pan'shon-izm), n. [expansion + -ism.] A policy of (territorial) expansion.

expansionist (eks-pan'shon-ist), n. One who favors expansion, as of the currency, or the extension of national territory; one who advocates the annexation of outlying territory. expansion-plate (eks-pan'shon-plat), n Same as *hook-plate.

expansion-rate (eks-pan'shon-rat), n. change of volume of an expanding substance divided by the time required for the change. If dv is the change of volume occurring in a short interval of time dt, then dv is the expansion-rate.

expansion-ratio (eks-pan'shon-ra"shio), n.
The ratio of the volume of a gas or vapor,
such as steam in a thermal engine, after expansion to the volume before expansion began. expansion-roller (eks-pan'shon-ro'ler), n. A roller placed under one end of a truss of a bridge, boiler, or roof (the other end of which is fastened) to allow the structure to expand or contract freely with changes of temperature: also used under long pipe-lines for the same purpose same purpose.

expansion-shaft (eks-pan'shon-shaft), n. A shaft in the valve-gearing of certain forms of engines which is regulated by the governor so as to determine the point of cut-off and the degree of expansive working of the steam in the cylinder.

expansion-slide (eks-pan'shon-slid), n. A slide or valve on the back of the main valve of an engine, for cutting off the steam earlier and more sharply than is done by the main slide-valve, and causing a greater degree of expansive working of the steam than would be secured by the main valve.

expansion-tank (eks-pan'shon-tangk), n. In a hot water heating system.

a hot-water heating-system, a sheet-metal vessel placed at the highest point in the pipe-system and open at the top to the atmosphere. It is kept partly filled with water to unite the flow and return water, and, at the same time, to give the whole mass of water in all the pipes room to expand under the influence of heat. It is fitted with a glass water-gage and supply- and overflow-pipes.

expansion-trap (eks-pan'shon-trap), n. A device for separating water of condensation from steam which uses the unequal expansion of metals by heat as a means of open-

sion of metals by heat as a means of opening or closing the inlet-valve. A rod immersed in the water is cooled and shortened or deflected, opening the valve and allowing the accumulated water to flow out; when the water has been discharged and steam replaces it, the rod expands or bends in the other direction and closes the valve. A tube may be used instead of a rod, or a compound rod or tube made of two metals.

expansion-trunk (eks-pan'shon-trungk), n. In ship-building, a trunk at the top of each tank-compartment of a vessel which carries oil or other liquids in bulk. In such vessels, in order to avoid the shocks on the bulkheads and deck and the loss of stability due to the motion of a liquid with a free surface, the large compartments must be completely filled. The trunk extending above the compartment is of comparatively small area and is partly filled with the liquid, the level of which rises or falls in it with change of volume of the liquid due to changes of temperature. The trunk thus acts as a feeder to the tank-compartment.

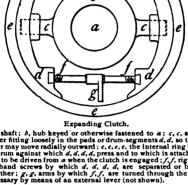
expansion-valve, n. 2. Same as *expansionexpansion-valve, n. 2. Same as *expansion-

expansometer (eks-pan-som'e-ter), n. An instrument for the determination of coefficients of expansions; a *dilatometer (which

expectation, n.— Curtate expectation of life, a simplified formula of life-expectancy which deals only with complete years, and is computed to be about six months less than the actual expectancy in any individual case.—Error of expectation. See **error.*

expectoration, n.—Prune-juice expectoration, matter of a dark purplish color, due to admixture of blood, expectorated in certain cases of cancer or destructive inflammation of the lungs.

expectorates.



with an item of incurred expense to be collected from the proper party and accounted for by the chargee: used chiefly in dealings between express or railway companies or their agencies

expensilation (eks-pen-si-la'shon), n. expensitation (eks-pen-si-is sign), n. [NL. expensitatio(n-), in LL. prop. two words. expensitatio(n-), a setting down of expense: expensi, gen. of expensum, expense; tatio(n-), bearing, setting. Cf. acceptilation.] In Rom. bearing, setting. Cf. acceptilation.] In Rom. law, the merging of an existing indebtedness into a new and more formal contract or obli-

expenthesis (eks-pen'the-sis), n. [Appar. an arbitrary fusion of exp(ansion) + Gr. Evitence, insertion.] The lengthening of a word by the use of affixes. Compare epenthesis. S. S. Haldeman, Analyt. Orthog.

Haldeman, Analyt. Urthog.

Experiment, n.—Aristotelian experiment, an experiment in which a bead held between the tips of the first and second fingers is felt as one if the fingers are parallel, but as two if they are crossed.—Blank experiment, in psychophys., an experiment, irregularly introduced in a regular series of observations, to test the bias of the observer. Also termed, under different circumstances, catch experiment, puzzle experiment, test experiment.

Go to all psychological books, to see if they contain any reference to mental measurement, and the metric methods, and the blank experiment, and so forth.

Amer. Jour. Psychol., XIV. 86.

reference to mental measurement, and the metric methods, and the blank experiment, and so forth.

Amer. Jour. Psychol., XIV. 86.

Cornu's experiments. See velocity of *klight.—Experiment area, a forest area of known size upon which successive measurements or other detailed studies are made for the determination of the growth and behavior of the stand, or upon which experiments are conducted to ascertain the effect of methods of treatment upon the forest. See *kaluation area.—Experiment station.

An establishment in which experiments are systematically carried on in a particular line of research or activity. See *kapricultural experiment station.—Fechner's cloud experiment, in psychophys., an experiment for demonstrating the sensible equality of just noticeable differences of sensation at various points of the brightness scale. Two clouds are found, in a cloude sky, which present to the naked eye a barely discernible difference of brightness. The difference remains just perceptible when the clouds are viewed through gray glasses of various shades of darkness. E. B. Titchener, Exper. Psychol., II. 129.—Feohner's paradoxical experiment, in psychophys., an experiment which shows that, under certain conditions, the removal of a part of the stimulus received by the total visual apparatus increases the intensity of sensation. "Look at a uniformly illuminated surface. Now bring before one eye a darkened glass: the binocular field is darkened. Close the eye behind the dark glass: the field becomes noticeably brighter. The explanation is probably that, in the first part of the experiment, the pronocular fields are not to different to blend to an average result; whereas, in the second part, the bright field wholly suppresses the dark." E. C. Sanford, Exper. Psychol., p. 169.—Psehner's shadow experiment, in psychophys., an experiment for demonstrating the sensible equality of just noticeable difference of sensation at various points of the brightness scale. A Rumford photometer is so arranged that one of the two shadows on

Kundt's Experiment. a, b, c, d, transverse ridges of powder.

Kundi's Experiment. a, b, c, d, transverse ridges of powder.

tance between the transverse ridges of powder (a, b, c, d)
thus formed, the wave-length, which is twice that distance, may be found and the velocity of sound in the grawithin the tube may be computed.—Mariotte's experiment, a method of determining the blind spot in the eye:
demonstrated by Mariotte to Charles II. in 1668. A black
spot on a white ground, or the reverse, is placed on the
wall: then if one stands a little to the left of it and looks
straight ahead at the wall with the right eye, the left being closed, and slowly steps backward, at a certain time
the image of the spot will disappear when the rays from it
implinge upon the blind spot in the
retina.—Melde's experiment,
in acoustics, an experiment in
which one end of a flexible cord
is attached to the vibrating prong
of a tuning-fork and the cord is
stretched by the application of
Melde's Experiment.



weight to the free end. At certain degrees of tension, depending upon the frequency of the fork and the weight and length of the cord, the latter vibrates in parts showing well-defined loops and nodes.—Meyer's experiment, in psychophys., an experiment in visual contrast. A strip of gray paper is laid upon a colored background, and the whole is covered with white tissue-paper enhances the contrast effect. The experiment was described by H. Meyer in 1855.—Michelson's experiments. See velocity of kilght.—Ragona-Scina's experiment, in psychophys., an experiment in visual contrast. Two white cards, carrying black figures (for example concentric circles), are set together at a right angle. Between them, at an angle of 45', is placed a sheet of colored glass. If one looks down at the horizontal card through the glass, the one black figure appears tinged with the antagonistic color. The experiment was described by Wundt in 1859.—Wundt's mirror experiment, in psychophys., an experiment, large of an object through or behind another object). The apparatus employed is of the same type as that used in Ragona-Scina's contrast experiment.

experimental, a. 3. Of the nature of an experiment; characterized by experimentation; tentative: as, the experimental stage in the production of an invention, when it is being tested or examined to discover its uses and its behavior under commercial conditions or

behavior under commercial conditions or usage; an experimental scale, a limited or small scale.—Experimental geology, pathology. See *geology, *pathology. experimentalism (eks-per-i-men'tal-izm), n.

That philosophy which regards observation 1. That philosophy which regards observation of fact as affording the only assurance of positive truth, as distinguished from mere mathematical truth; the philosophy which was naturally developed out of the prosecution of the experimental sciences; the school of English philosophy of Locke, Berkeley, Hartley, the Mills, and others, together with Hume.—2. Experimental research in some branch of science.

expertise (eks-per-tēz'), n. [F., in OF. esper-tise, (expert, espert, expert.] An examination by experts; a survey by a board of skilled ex-aminers of any obscure or doubtful case in order to establish a foundation upon which the court may base an intelligent and definite judgment.

expiration, n.—Fast of expiation. See */ast3.
expirate (ek'spi-rat), a. [L. exspiratus, breathed out, pp. of expirare, breathe out: see expire.]
In phonol., that is the result of or is accompanied by expiration or outbreathing.

Ordinary speech is generally expirate in European lan-uages. Yale Psychol. Studies, 1902, p. 103.

expiration, n.—Expiration group, in phonol., a sequence of sounds limited by pauses. Yale Psychol. Studies, 1901, p. 75.—Expiration interval, in phonol., the period of a sequence of sounds limited by pauses; the duration of an expiration group.

expiree (ek-spi-re'), n. [expire + -cel.] One whose term has expired; specifically, a convict whose term of imprisonment or transportation has expired.

explemental (eks-plē-men'tal), a. [explement + al¹.] Of the nature of an explement; specifically, designating: (a) two arcs which together complete the circle; (b) an arc which with a given arc completes the circle; (c) two sects which together complete the straight; (d) a sect which with a given sect completes the straight.

explicit (eks'pli-sit), n. [explicit², v.] The concluding words of a book or section of a book. See the quotation under *incipit.

exploder, n. 3. Milit., a device for exploding exploder, n. 3. Milit., a device for exploding gunpowder or a high explosive; a primer.

— Mowbray's exploder, an apparatus for use in blasting which fires the charge by means of static electricity. It is put up, for convenient transport, in a wooden case shaped like a small barrel and furnished with a handle by which it may be carried. Hence it is sometimes called the porder-keg exploder.

exploit, v. t. 4. To work (as a mine, etc.); to turn to industrial use.

explorer, n.— Linear explorer, a device for indicating or recording the linear oscillations of a moving railway-car or other vehicle.

exploring-coil (eks-plor'ing-koil), n. In elect., a coil of wire which is connected to a measuring-instrument and is used to investigate magnetic fields, etc., by observing the electromotive force induced in the coil or its change of resistance when placed in the field.

exploring-needle (eks-plor'ing-ne'dl), n. A sharp-pointed needle with a longitudinal groove which is thrust into a tumor and, on withdrawal, may engage in the groove sufficient pus or other soft contents of the swelling to permit of a diagnosis.

exploring-tambour (eks-plőr'ing-tam'bőr), n. An apparatus used to record the respiratory movements of the chest.

explosion, **— Detensitive explosion, an explosion produced, not by the application of flame or a heated body, but by shock, usually from the discharge of a small primer charge of fulminating mercury.— Wave of explosion. See *wave1.

explosion-bomb (eks-plo'zhon-bom), n. thermochem., a form of calorimeter used for the determination of heats of combustion. It the determination of hears of comboacton. It consists of a steel vessel within which are placed a small amount of the substance to be exidized and exygen enough to insure complete combustion. Ignition is secured by sending a strong electric current through an iron wire. The heat evolved is measured by the rise in temperature of a water-bath in which the bomb is submerged.

explosion-chamber (eks-plo'zhon-cham'ber). n. A chamber at the end of the cylinder of an internal-combustion engine where the charge is compressed and ignited; the clearance-space of an internal-combustion engine.

explosion-engine (eks-plo'zhon-en'jin), n. A form of internal-combustion engine in which the mixture of fuel and air is drawn into the cylinder in such proportions that, when ignited, combination with the oxygen takes place so rapidly and concussively as to produce a report. The modern engines which compress the mixture before igniting it are not explosive in this sense, but are practically silent.

explosion-lake (eks-plo'zhon-lak), n. which occupies a volcanic crater or caldera. explosion-motor (eks-plo'zhon-mo'tor), ". Same as *explosion-engine.

explosion-pipette (eks-plo'zhon-pi-pet"), n. A pipette of stout glass, of some suitable shape, having two platinum electrodes so sealed in that an electric spark may be made to cross the gap between them and thus ignite an explosive mixture of gases contained in the pipette. M. W. Travers, Exper. Study of Gases,

p. 136.

Explosive. I. a.—Explosive speech. See *speeck II. n. 1. The principal classes of explosive substances are: (a) gunpowder; (b) nitroglycerin and its compounds, the most important being dynamite; (c) guncotton and similar nitro-substitution compounds; (d) picric acid and the picrates; (e) fulminates; (f) Sprengel safety-mixtures; (g) nitrate mixtures other than gunpowder, and chlorate mixtures. There are many varieties of each class.—Amino explosive. See *amino.—Explosive D, a high explosive consisting largely of picric acid: used in the United States land service as a bursting-charge for shell.—Favier explosives, explosive agents patented by Favier in Belgium, consisting chiefy of a mixture of alkaline nitrates and nitronaphthalene; No. 2, ammonium nitrate, and dinitronaphthalene; and No. 3, sodium nitrate, and dinitronaphthalene. These explosives are not readily fired by accidental shock, require heavy detonators to explode them, and, in the case of those cotaining ammonium nitrate, are very liable to injury by absorption of moisture in storage.—Parone's explosive, an explosive agent which consists of two parts of potasium chlorate and one of carbon disulphid.—Phonic explosives, consonants uttered with vocal-chord action, as 6, d, g.—Sprengel explosives, a class of explosive materials proposed by D. H. Sprengel in 1873, which involve the principle of mixing just before use a combustible with an oxidizing substance, neither of these being explosive in the separate state. Some of the mixtures proposed were open to serious objection, as, for instance, petroleum or carbon disulphid mixed with liquid nitrogen tetroxid, but some useful mixtures have been devised, notably that known as rend-rock or raction of the consense of explosive. I. a. - Explosive speech. See *speech. been devised, not rock (which see).

Exponent of a ratio, the number of times the consequent is contained in the antecedent.—Exponent of irregularity of a permutation, the number of cycles in it. exponentially (eks-po-nen'shal-i), adv. By exponentials.

exponentiation (eks - pō - nen - si - ā ' shon), **.

[exponent + -i- + -ation.] The act of affecting with an exponent or index.

Moreover exponentiation unavoidably introduces ordinal notions, since ab is not in general equal to be.

A. W. B. Russell, Prin. of Math., p. 120.

Export duty. See *duty. exposit (eks-poz'it), v. t. [L. expositus, pp. of exponere, set forth: see expound, exposition.]

To expound; explain or interpret.

exposition, n. 7. In music: (a) The act, process, or result of presenting or enunciating the themes or subjects of a composition. (b) Specifically, the opening section of a fugue of a sonata, in which the subject or subjects are first set forth: often called the exposition section.—8. That sort of setting forth of a purpose or general idea which consists in showing how the purpose or idea will apply to particular cases

Exposure, n. 7. In meteor., the method of placing any instrument so that it shall correctly measure a given meteorological element. A barometer should be so placed as to indicate the pressure prevailing in the free air at a given level. If the wind is blowing the instrument, or the house in which it is placed, becomes an obstacle to the wind, by which the pressure is increased on the windward and diminished on the leeward side; similarly, in a wind, an open chimney in a closed room causes a lowering of the pressure, while a window opened on the windward side causes an increase. In general, a barometer, whether mercurial or ameroid, should be so placed that the wind-effect may be annulled or measured and allowed for. The latter is accomplished by the *anemobarometer (which see). In order that a thermometer shall indicate truly the temperature of the air, it must receive heat from the air by convection and conduction, but all radiation from other objects should be cut off except from those having the same temperature as the air. When a thermometer is hung in the open air in the shade, it is usually exposed to radiant heat from the soil, buildings, and clouds, and to reflections of the rays of the sun; it also radiates its own heat to cold objects and to the sky. Its temperature represents a balance between its momentary gain and loss of heat, and has little to do with the temperature of the air is the same in both places. A common method of exposure is to place the thermometer within a screen or so-called thermometer-shelter made of light alst overlapping each other so as to cut out direct sunlight but allow the free entrance of the wind. This method fails if the wind fails to keep the interior surfaces of the shelter at the true air temperature, for, in general, the temperature of the air is the same in both places. A common method of exposure is to place the thermometer within a screen or so-called thermometer-shelter made of light alst overlapping each other so as to cut out direct sunlight but allow the free **EXPOSUTE**, n. 7. In meteor., the method of placing any instrument so that it shall corexposure, n.

and employed.

8. In forestry, see *aspect, 9.—Sod-exposure, the location of a thermometer-shelter, or the exposure of a thermometer, over a large expanse of grass-covered soil rather than over the tinned surface of a roof or the hot sandy or rocky surface of a plain.

express, v. t. 9. In math, to give or represent

by means of a figure, graph, symbol, or function.—To express y in terms of x, to give explicitly fx for y = fx.

express. I. a.—Express warranty. See *warranty.

express. I. a.—Express warranty. See *warranty.

II. n.—Limited express, an express train having accommodations for a limited number of passengers. Very fast trains are thus limited, in order that the speed may be maintained. As originally used, the limit applied only to the number of cars. See limited train.—Local express, in railroading, a train scheduled to run a certain distance (for example, over one division) as an express and then to run as a local train, making all stops. [U. 8.]—Pony express, rapid transit by relays of ponies: the system in use in the United States for the conveyance of the mails across the western prairies before through railway-communication was established in 1889.

of an express-wagon.

expression, n.—Method of expression: (a) In psychol., a method for the study of mental processes by means of their concomitant physiological phenomena; specifically, a method for the study of affective processes by means of stuch physiological phenomena. The method covers the use of instruments such as the automatograph, plethysmograph, sphygmograph, dynamograph, and pneumograph, which record changes of muscular innervation, voluntary or involuntary. Opposed to it, in the psychology of the affective processes, is the method of impression, in which stimuli are presented to the observer in pairs or series, and their affective value is noted by introspection. The method of expression itself involves introspection, since this alone can guarantee the nature of the experience which the recorded physiological changes serve to 'express.' (b) In obstet.: (1) Credis method, compression of the fisceld uterus by the hand externally applied in order to express the placenta after the birth of the child. (2) Kristeller's method, pressure and friction of the uterus made by the hand on the abdominal wall, in order to hasten the birth of the child.

expressionism (eks-presh'on-izm), n. [expres-

expressionism (eks-presh'on-izm), n. [expression + -ism.] The methods or style of the expressionists.

expressionist (eks-presh'on-ist), n. [expression + -ist.] An artist who aims chiefly to give expression to the emotions or passions.

expressive, a.—Expressive method, in psychol., same as method of *expression.

express-pump (eks-pres'pump), n. A high-speed pump; one that makes a high number

of strokes per minute.

express-wagon, n. 2. A wagon with a body framed to show parallel and upright ribs outside of the panel.

exquisit, a. and n. A simplified spelling of exquisite.

exr. A contraction of executor.

exradio (eks-rā'di-ō), n. [NL. exradio (exradion-1) (preferably "exradium), from the phrase ex radio, 'from radium': see ex and *radium.]

The name proposed by Sir William Ramsay

for the radioactive, gaseous product produced by radium salts, which was first observed in 1900 by Dorn and afterward more carefully investigated by Rutherford, who called it the radium emanation. The name exradio has never received any general recognition from workers in this branch of science and its use has been abandoned by Ramsay in his recent writings which have dealt with the action of radium emanation on water and on copper salts in success solutions. equeous solutions.

Finding the name 'radium emanation' somewhat long and clumsy, Sir William Ramssy has recently suggested 'ex-radio' as an equivalent. This name is certainly brief and is also suggestive of its origin.

Rutherford, Philos. Trans. Roy. Soc. Lond., 1904, p. 172.

exradius (eks-rā'di-us), n. [ex- + radius.] The radius of an escribed circle.

ex right (eks rit). Sold without the right, usually accorded to stockholders, of having new issues first offered to them for subscription: used in stock or bond transactions.

exrupeal (eks-rū'pē-al), n. [L. ex, out, + rupes, rock, + -all.] In ichth., the pterotic, the most lateral of the posterior bones of the cranium. Starks, Synonymy of the Fish Skeleton, p. 510.
exrx. An abbreviation of executrix.

exanguination (ek-sang-gwi-nā'shon), n. [exsanguine + -ation.] Loss of blood; bloodlessness.

exsert (eks-sert'), v. t. [L. exserere, pp. ex-sertus, thrust out: see exserted.] To protrude or thrust out.

ex ship (eks ship). In com., same as *ex steamer.

ex steamer (eks ste'mer). In com., free of all expense as far as the steamer: said of com-

modities sold to be exported. ex store (eks stor). In com., without free de-

ex store (eks stör). In com., without free delivery after leaving the store or warehouse: said of goods for export.

exstulpate (ek'stul-pāt), v. t.; pret. and pp. exstulpated, ppr. exstulpating. [NL. *exstulpate, representing G. ausstülpen, turn inside out, < ex, out, + *stulpare, < G. stülpen, turn inside out.] In zoöl., to extrude or push out, as an eversible papilla or other process.

exstulpation (ek-stul-pā'shon). n. [exstulpate + -ation.] In zoöl., the act of extruding or pushing out, as an eversible papilla, or any other process.

other process.

ext. An abbreviation (a) in law, of extended,

(b) of external, externally; (c) of extinct; (d) of extra; (e) of extract.

exta (ek'stä), n. pl. [L.] In Rom. antiq., the internal organs from which the haruspices drew their auguries.

express-buggy (eks-pres'bug'i), n. A buggy extasis, n. See ecstasis.
of which the body is made in imitation of that extemporaneous, a. 2. In phar., noting a of an express-wagon.

preparation which is compounded at the time ordered, in distinction from a ready-made, or officinal preparation.

extensimeter (eks-ten-sim'e-ter), n. Same as

extension, n.—Calculus of extension. See *calculus.—Compressive extension, a term used by T. M. Reade for the tendency of rocks, affected by increase of temperature under circumstances which prevent lateral expansion, to secure relief by flowage and anticlinal folding. T. M. Reade, origin of Mountain Ranges, p. 327.—Extension of phase, in statistical mech., a name given by J. W. Gibbs to the value of the integral

$$\int \dots \int dp_1 \dots dp_n dq_1 \dots dq_n$$

in which $p_1 ldots p_n$ are the generalized momenta and $q_1 ldots q_n$ the generalized coordinates of a system of n degrees of freedom.

extensionally (eks-ten'shon-al-i), adv. From the point of view of logical extension; with reference to the number of the contained individual between the property of the contained individual to the contained individual to the contained in t vidual objects: opposed to *intensionally. See extension, 5.

A class may be defined either extensionally, by an enumeration of its terms, or intensionally, by the concept which denotes its terms.

Nature, Sept. 3, 1903, p. 411.

extension-bolt (eks-ten'shon-bolt), n. A long bolt for a door, controlled by a thumb-piece in a mortised plate; a long flush bolt.

extensionist (eks-ten'shon-ist), n. One who

favors extension or expansion of any kind; an expansionist.

extension-ladder (eks-ten'shon-lad'er), n. See aërial *truck.

extension-lens (eks-ten'shon-lenz), n. which can be substituted for one of the lenses in a photographic objective to increase the focal length of the combination and consequently the size of the image. Nature, July 17, 1902, p. 280.

extensive, a. 5. In agri., noting that method of farming or husbandry in which relatively small crops or returns of any kind are taken from large areas with a minimum of labor and expense. This method is profitable where land is very cheap on account of being poor or thinly settled. Oppose to *intensive (which see). Also called low farming. Extensive feeling, fusion, idea. See *feeling, etc.

Extensive feeling, fusion, idea. See *feeling, etc.

Extensometer, n. In the instrument devised by Lavelle, a metal rod is surrounded by a steam-jacket whose temperature is indicated by two thermometers. The lower end of the rod rests at the bottom of the jacket, while the upper end passes through amovable metal cap which acts as a support for a spherometer (not shown in cut), by means of which the expansion of the rod is accurately measured. is accurately measured.

extent, n. 6t. The length and the breadth (of power, greatness, duty, or the like).

Duks. You are great in all that's good.

King. Youshew the bounty Of your opinion. My extent in all things. Is but to bid you wel-

come.
Shirley, The Royal Mas[ter, i. 1. Illusions of extent. See

Exterior polygon. See *polygon. Exterior

exteriority, n. 3.
Exteriorization; externalization; the mental reference of sense-processes to objects in the external world. [Rare.] N. E. D.

Extensometer.

exteriorize, v. t. 2. To transport to some place outside of and away from the source: said of the transfer of radioactivity from the radioactive substance itself to the walls of the containing vessel. Sci. Amer. Sup., Feb. 20, 1903, p. 23523.

extern, n. S. A young physician, or advanced medical student, who is a member of the med-

ical staff in a hospital but attends only during the day, sleeping outside; also, one who cares for patients in the out-patient department or in their homes.

External association, lobe, point, segments. See *association, etc.

externalist (eks-ter'nal-ist), n. [external + -ist.] A partizan of the theory of the external origin of certain forms of skin-disease. Encyc. Brit., XXXI. 568.

externalistic (eks-ter-na-lis'tik), a. Of or pertaining to externalism; regardful of what is merely external and not essential.

externalization, n. 2. That process by which a phenomenon of sensation is referred to a point in the space surrounding the body: in contradistinction to localization, by which the phenomenon is referred to some part of the body.

externe, n. See *extern, 3.

externolateral (eks-ter-no-lat'e-ral), a. On the outer side.

externum (eks-ter'num), n.; pl. externa (-nä).

[NI neut of l. externus. external.] In [NL., neut. of L. externus, external.] In ichth., the pterygoid, a small bone connecting the palatine with the quadrate. Starks, Synonymy of the Fish Skeleton, p. 514.

extinction, n.—Curve of extinction. See *curve.—Extinction angle, the angle which the extinction-direction (see *extinction*, 3) in a section of a crystal makes with some definite crystallographic line, usually either a crystallographic axis or the intersection-line of two prominent faces.

extinctive (eks-tingk'tiv), a. Tending to extinguish, suppress, or destroy.

tinguished (eks-ting'gwisht), p. a. Quenched; put out; destroyed. Specifically: (a) In phar., rendered indistinguishable through fine subdivision: noting the condition produced by triturating mercury with lard until the metallic globules are no longer visible. (b) In the petrographical investigation of rocks and minerals with a polarizing microscope, noting the complete darkening of a transparent section of a bireextinguished



fracting mineral when its axes of elasticity coincide with the planes of the crossed Nicol prisms. Getkie, Textbook of Geol., p. 125.

extispicium (eks-ti-spish'i-um), n. [L.] Same

extispicy (ek-stis'pi-si), n. [L. extispicium, < exta, entrails, + specere, inspect.] In Rom. antiq., divination by inspection of entrails.
extra, n. 3. In cricket, a score or run not made from the bat, as a bye or a wide: usually in allows.

in plural.

extra, adv. Used in trade to denote a size somewhat larger than that mentioned: as, extra elephant folio; exlarger than that mentioned: as, extra elephant 10110; extra foolscap octavo.

extra-articular (eks'trä-är-tik'ū-lär), a. Out-

side of, or not in relation with, a joint.

extrabranchial (eks-trä-brang ki-al), a. and n.

I. a. Lying outside of or external to the branchial arches; forming the external support of the branchial septa.

Each main extra-branchial bar is seen to be behind the corresponding cleft, or aperture.

Trans. Zool. Soc. London, 1883, II. 419.

II. n. A term applied by W. K. Parker to certain cartilages which take part in the for-mation of supports for the divisions between the gill-chambers in tadpoles, lampreys, and sharks. In lampreys the extrabranchials are the verti-cal bars of the branchial basket; in sharks they are the cartilaginous bands external to the rays of the branchial

The last extra-branchial sends off no cervicorn process, except from the transverse bars.

Trans. Zool. Soc. London, 1883, II. 420.

extrabronchial (eks-trä-brong'ki-al), a. Outside of, or independent of, the bronchial tubes.

extracalycinal (eks'trä-ka-lis'i-nal), a. Outside of the calyx; specifically, in corals, denoting growths not taking place within the calyx: as, extracalycinal gemmation, which takes place either from the sides of the polyp or in the conenchyma.

Polyps with a well-defined edge-zone send out their buds in the edge-zone, the buds being then said to be extracallycinal.

Philos. Trans. Roy. Soc. (London), ser. B, 1896, p. 147.

extracanonical (eks-trä-ka-non'i-kal), a. Being outside of the canon of Scripture: referring usually to books not included in the present canon or list of sacred books, but contemporaneous with them.

Extracapsular fracture. See *fracture.

extracapsular fracture. See *gracure.

extracapsulam (eks-trä-kap'sū-lum), n.; pl.

extracapsula (-lä). [NL., \(\) extra, outside, +

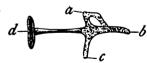
capsula, capsule.] The outer, jelly-like, pseudopodia-emitting portion of the sarcode body
of the Radiolaria, which is differentiated from
the inner system or capsule of tough, slimy protoplasm.

extracarpal (eks-trä-kär'pal), a. Lying just without the region of the wrist or carpus. extraciliary (eks-trä-sil'i-ā-ri). a. Derived from the outer layer of the ciliary body of the cerebellum.

extractvical (eks-trä-siv'i-kal), a. That exceeds or oversteps the province, duties, or privileges of a citizen.

extracivically (eks-trä-siv'i-kal-i), adv. Beyond the proper sphere of citizenship. extracolumella (eks'trä-kol-ū-mel'ä), n. A

three-rayed cartilaginous ex-tension of the bony columella. d The direct branch is the extrastapedial, the superior branch the superior branch the inferior branch the infrastapedial.



Columella auris of Columba livia, showing extracolumella.

a, suprastapedial; b, extrastapedial; c, infrastapedial; d, stapes. (From Parker and Haswell's "Zoology.") extraconscious

(eks - trä - kon ' shus), a. Outside of, apart from, or beyond consciousness; extramental. Science, Feb. 1, 1901, p. 184.

extraconstellated (eks 'trä-kon-stel'ā-ted), p. a. Not included within the boundaries of any constellation, as a star. Formerly there was a number of vacancies on the celestial sphere between certain constellations, but the boundaries of the latter have now been so modified that such vacancies no longer

extracorporeal (eks'trä-kôr-pō'rē-al), a. Situated, existing, or occurring outside of the body: specifically applied to stages of a para-site occurring elsewhere than in a host.

extracorpuscular (eks"trä-kôr-pus'kū-lär), a. Situated or occurring outside of the bloodcorpuscles.

extra-cover (eks'tr\(\frac{a}{a}\) huv'er), n. In cricket: extramatrical (eks-tr\(\frac{a}{a}\) matrix, matrix (the host and mid-off, but farther from the batsman's wicket than either; an extra cover-point. (b) host plant: applied to that part of a fungus wicket than either; an extra cover-point. (b) His position in the field.

extract, n. 8. Shoddy or loose wool fiber, obtained by tearing apart old cloth, from which tained by tearing apart old cloth, from which the cotton or other vegetable fiber has been removed by means of acids and heat.—Adrenal extract. See *adrenal.—Chestnut extract, an extract of tannin prepared from the wood and bark of the Castanea vesca, a variety of chestnut-tree. It is largely employed in the dyeing of logwood blacks upon silk and silk-and-cotton-mixed goods.—Extract of columbo, an extract prepared from the root of African columbo, an extract prepared from the root of African columbo, an extract palmata: a bitter tonic, said to be free from tannic acid.—Extract style. See *atyle!.—Hemilock-bark extract, a material prepared on a large scale for tanners' use, by digesting the bark of the hemlock-spruce with hot water and evaporating the clear liquid to dryness or to the consistence of a soft paste.—Pituitary extract. See *pituitary.—Suprarenal extract. See *tanning.—Thyroid extract. See *thyroid.

extracted (eks-trak'ted), p. a. 1. Produced by extraction, or the production of segregated descendants by Mendelian hybrids.

By pairing such hybrids with extracted albinos we

By pairing such hybrids with extracted albinos we should, in the Mendelian view, produce equal numbers of albinos and dark-eyed hybrids.

A. B. Darbishire, in Biometrika, Jan., 1906, p. 25.

Extracted honey, hybrid, recessive. See *honey, etc. extraction, n. 4. The production of segregated descendants by Mendelian hybrids. Bateson. extraction, n.

Bateson.

Extractor, n. (g) A kitchen press for extracting the juices of meats in making meat extracts, beef-tea, etc. (h) A machine with rollers through which skins are wrung to remove the surplus water after they have been soaked. Flemming, Practical Tanning, p. 2.—Caldwell's extractor, a simple form of apparatus used for extracting fat from milk, etc. It consists of a double-walled glass tube, the inner tube having perforations and containing the mass to be extracted. The small tube at the lower end is attached to a flask containing the boiling liquid used for extracting, while a return condenser is connected with the upper end.—Soxhlet extractor. See Soxhlet's extraction **apparatus.*

Extract—wool (eks'trakt—wûl), n. Wool which has been freed from vegetable impurities by some chemical process.

some chemical process.

some chemical process.

extracystic (eks-tr\(\frac{a}{2}\)-sis'tik), a. Situated outside of a cyst or a bladder. Buck, Med. Handbook, V. 401.

extradition (eks-tr\(\frac{a}{2}\)-dish'on), v. t. Same as extradite (which see).

extradural (eks-tr\(\frac{a}{2}\)-d\(\frac{a}{2}\)-d\(\frac{a}{2}\), a. Situated outside of the durant matter.

extracular (eks-tra-du rai), a. Situated outside of the dura mater.

extra-embryonic (eks" trä-em-bri-on'ik), a.

Not forming a part of the embryo proper; specifically, noting that portion of the vertebrate embryo which lies outside of the umbilical stell. bilical stalk

extrafascicular (eks"trä-fa-sik'ū-lär), a. Lying outside the vascular bundles.

In certain cases the structure was further complicated by the appearance of extrafascicular zones exterior to the whole stellar system.

Encyc. Brit., XXXI. 419.

extragenital (eks-trä-jen'i-tal), a. Originating or located elsewhere than in or on the genital organs.

extraglacial (eks-trä-glä'shial), a. Situated or occurring outside of the region occupied by a glacier. J. Geikie, The Great Ice Age, p. 644. extragovernmental (eks' trä-guv-ern-men'tal), a. Being beyond the province, powers, or proper sphere of government. extra-illustrate (eks-trä-i-lus'trät), v. t. To

add illustrations to (a book) after it is printed, by pasting or binding them in.

extra-illustration (eks-trä-il-us-trā'shon], n.

Illustrations of a book after its completion, by binding in cuts or engravings.

extra-jural (eks-trä-jö'ral), a. Same as extra-judical

judicial extralateral (eks-trä-lat'e-ral), a. Situated or extending beyond the sides; specifically,

through the end-lines.

extralegal (eks-trä-le'gal), a. Being beyond or outside of the domain of law: sometimes

used in the sense of illegal, extramarginal (eks-trä-mär'ji-nal), a. In mental pathol., below the limen of consciousness; infraconscious. See the extract.

mental pathol., below the limen of conscious ness; infraconscious. See the extract.

Those [disturbances] that are sub-dominant bring about marginal or sub-conscious psychical states, and finally those impulses or irritations which are infra-dominant act, in the psychical sphere, below the threshold of consciousness and bring about infra-conscious or extra-marginal psychical activities.

Buck, Med. Handbook, III. 260.

See therpoute.

Extrapulmonary (eks-trä-pul'mo-nā-ri), a. Being outside of, or independent of, the lungs.

Extrapulmonary (eks-trä-pul'mo-nā-ri), a. Being outside of, or independent of, the lungs.

Extrapulmonary gill. See **gill.** (extrapulmonary** gill. See **gill.** (extrapulm

or parasitic growth which is so situated. See **≠**intramatrical.

extramental (eks-trä-men'tal), a. Apart from outside of, or beyond the mind; independent of mental apprehension.

The rejection not merely of things-in-themselves, but of extra-mental realities in general would imprison us within our own consciousness and make the latter coextensive with the universe.

C. A. Strong, Why the Mind has a Body, p. 214.

extrameridian (eks"trä-mē-rid'i-an), a. astron., not made on the meridian, as an observation; used out of the meridian, as equato-

vation; used out of the meridian, as equatorials, almucantars, etc.

extrameridional (eks'trä-mē-rid'i-ō-nal), a. Same as *extrameridian (which see).

extrametrical (eks-trä-met'ri-kal), a. In pros., same as hypermetric (which see).

extrametropolitan (eks'trä-met-rō-pol'i-tan), a. Beyond the limits or jurisdiction of the paternelis. metropolis.

extramorainic (eks'trä-mō-rā'nik), a. Situated outside of or beyond the terminal moraine of a glacier: usually applied to sedimentary deposits near a moraine but not produced by the ice-sheet. Geikie, Text-book of Geol., p.

extranatural (eks-trä-nat'ū-ral), a. Outside the operation of natural laws: as, extranatural agencies. Huxley.
extrane (eks'tran), a. Not belonging or proper

extrane (eks'trān), a. Not belonging or proper to a thing; foreign; extraneous; specifically, in psychol., beyond the range of the hypnotic rapport. [Rare].

extraneous, a. 2. In music, not belonging to a standard scale or key; chromatic.—Extraneous body. Same as foreign body (see foreign, 4).—Extraneous root. See *root!.

extra-Neptunian (eks'trä-nep-tū'ni-an), a. Beyond the planet Neptune; referring to objects, especially hypothetical planets, more

jects, especially hypothetical planets, more distant than Neptune from the sun.

extra-orbital (eks'tr\(\tilde{\tilde{e}}\)-0r'\(\tilde{\tilde{e}}\)-1al), a. Situated outside of the orbit (in any sense of that word).

Extra-ordinary index of refraction, tithe, wave. See \(\tilde{\tilde{e}}\)-1aliant (eks'\)-1aliant (

truded through a rupture in the membrane. In certain circumstances extra-ovates are capable of development.

It often happens that the extra-ovate receives its nucleus later, obtaining in that case a still smaller fragment, but, nevertheless, the outcome is a perfectly normal embryo.

J. Loeb, Biol. Lectures, 1898, p. 52.

extra-ovular (eks-trä-ō'vū-lär), a. Outside the

extra-ovular (eks-trä-ō'vū-lär), a. Outside the egg: opposed to *intra-ovular.

extraparental (eks'trä-pā-ren'tal), a. Taking place outside the body of the parent, as the development of the majority of invertebrates.

extrapatriarchal (eks'trä-pā-tri-är'kal), a. Being beyond the limits of the patriarchal form of family.

extrapelvic (eks-trä-pel'vik), a. Being outside of, or unconnected with, the pelvis.

extraperineal (eks'trä-per-i-ne'al), a. Being outside of, or away from, the perineum.

extraperiosteal (eks'trä-per-i-os'tē-al), a. Being outside of, or independent of, the periosteum.

osteum.

a. Not in accord with, or not subject to, physiological laws; non-physiological.

extraplacental (eks'trä-plā-sen'tal), a. Independent of the black of the placental in the law of the placental in the law of the placental in the law of the placental in the place

dependent of the placenta.

extraplanetary (eks-trä-plan'e-tā-ri), a. Same as *ultra-planetary.

or extending beyond the sides; specifically, noting the right of a mine-owner to the extension of a lode or vein from his claim beyond the side-lines, but within the vertical planes through the end-lines.

extrapolate (eks-trap'ō-lāt), v. t.; pret. and pp. extrapolated, ppr. extrapolating. [extra-time (a value or quantity) by carrying out or outside of the domain of law: sometimes

as **uttra-planetary.

Extrapolar region. See *region.

extrapolate (eks-trap'ō-lāt), v. t.; pret. and pp. extrapolated, ppr. extrapolating. [extra-time (a value or quantity) by carrying out an empirical formula beyond the limits of the formula beyond the limits of the formula beyond the limits of the data from which the formula has been deduced. The results are usually more or less doubtful. See interpolate.

II. n. The invisible portion of the spectrum which lies outside of the region occupied by

the red rays and of greater wave-length.
extrasacerdotal (eks'trä-sas-èr-do'tal), a.

Being outside the priestly order.

the boundaries of the visible spectrum: said of lines or bands lying in the infra-red or ultra-violet regions.

extrastapedial (eks-trä-stä-pē'di-al), n. In ornith., the direct, external cartilaginous extension of the columella auris.

extratelluric (eks-trä-te-lü'rik), a. Not found among the constituents of the earth: as, extra-telluric matters. J. N. Lockuer.

extraterrene (eks'trä-te-ren'), a. Extrater-

extratheistic (eks'trä-thē-is'tik), a. outside of, or independent of, theism or theistic

inquiry. extrathermodynamic (eks "trä-thèr-mō-dī-nam'ik), a. Being beyond heat-energy or not due to the transformation of heat into other forms of energy, as the losses of heat by an engine which are not directly due to the work

done by the engine. extratribal (eks-trä-tri'bal), a. Relating to individuals or social groups outside of the

extratubal (eks-trä-tū'bal), a. Situated out-

tribe

extratympanic (eks'trä-tim-pan'ik), a. Being outside of the tympanum or drum of the ear.

extravaginal (eks "tra-vaj'i-nal), a. Being outside of, or unconnected with, the vagina.

extravasate, a. II. n. The fluid which has been extravasated.

extravasated (eks-trav'a-sā-ted), a. 1. See extravasate.—2. In geol., poured forth from a subterranean source in a molten state: used in description of certain eruptive rocks.

extravasation, n. 2. In geol., the protrusion of molten lava, either primarily from interior reservoirs, or locally from the interior of an uncongealed flow, through cracks in its hardened crust

extraventricular (eks'trä-ven-trik'ū-lär), a. Not contained in a ventricle either of the heart or of the brain.

extra-violet (eks-trä-vi'o-let), a. and n. I. a Of shorter wave-length than the violet-rays of the spectrum; ultra-violet.

II. n. All that portion of the spectrum which

is of shorter wave-length than the extreme violet-rava

extravisceral (eks'trä-vis'e-ral), a. In en bryol., not situated within the visceral arch.

extrazodiacal (eks 'trä - zō - dī 'a - kal), a. In astron., situated outside the zodiac.

extreme, n.—Length and breadth extreme, in ship-building, the greatest length and breadth of a vessel measured to the extreme outward portion of the hull, whether above or below water.

Extrinsic association. Same as external *association.—Extrinsic variation. See *variation.

extro-. [A prefix: see extra-. Compare introand intra.] A prefix occurring in a few words formed in antithesis to words in intro.

extropical (eks-trop'i-kal), a. [ex- + tropic + -all.] Pertaining to the regions outside the

tropics.

extroversate (eks-tro-ver'sat), v. t.; pret. and pp. extroversated, ppr. extroversating. [extro+ L. versare, turn: see versant.] To turn out-

The rather low, very powerful mandible is remarkable for the angular aspect of its symphysis, and of its posterior angles, which are prominent, often extroversated, and which extend on either side in a kind of voluminous heel.

Smithsonian Rep., 1896, p. 510.

extrovert (eks-trō-vert'), v. t. [extro- + L. vertere, turn.] To turn from within outward. See the extract.

The orifice admitted the thumb with ease, and the bladder mucous membrane was extroverted through it.

Therapeutic Gazette, Feb. 15, 1908, p. 131.

extrusive (eks-trö'siv), a. and n. [L. extrusus, pp. of extrudere, extrude, +-ive.] I. a. Capable of being extruded or thrust out; that tends or serves to extruded or thrust out; that tends or serves to extrude or thrust out or forth; specifically, in petrog., erupted or extruded: applied to igneous rocks. Same as *effusive.

II. n. That which is extruded; specifically, in petrog., same as *effusive (which see): contrasted with intrusive.

extubate (eks-tū'bāt), v. t.; pret. and pp. ex-tubated, ppr. extubating. [L. ex, out, + tubus,

extubation (eks-tu-ba'shon), n. Extraction or expulsion of the laryngeal tube used in intubation.

extraspectral (eks-trä-spek'tral), a. Beyond Exuberant granulation. See *granulation. exudate, v. t. II. intrans. In bot., to yield an exudate.

Abundantly provided with sessile exudating glands.

U. S. Nat. Herb., VIII, 298.

Exudation vein. See *vein.—Plastic exudation, an exudation which tends to become organized.

Exurgat money. See *money.
ex-votive (eks-vo'tiv), a. [L. ex voto, from a vow, + ive.] A needless substitute for votive. ex warehouse (eks war'hous). In com., same as *ex store.

exx. A contraction of executrix.

ey, n. and v. A simplified spelling of eye.

6y, n. and v. A simplified spelling of eye.
6yel, n., 9. (q) In petroy., same as *auge?. (r) That one of the three scars or spots at the stem end of a cocoanut at which the embryo is located. (s) In painting, the peculiar form assumed by a break in a fold of drapery; notably in the works of Dürer and the early German masters. (f) An opening in a heddle through which thread or yarn is drawn. (u) Same as *xye-box.
13. In some echinoids, a minute pigmented nodule, probably without visual functions, situated at the end of an ambulacrum.—14. In photog. the spectral range of wave-lengths to

photog., the spectral range of wave-lengths to which a photographic plate or film is sensitive

Which a photographic plate or min is sensioned. If the spectral colours of red, orange, yellow, green, blue, and violet are thrown upon an ordinary photographic plate, . . . it is at once seen that the emulsion is not sensitive to the entire range of the spectrum, and that the different colours which affect it do not do so equally with one another. This selective capacity may be called the "eye" of the plate.

Jour. Roy. Micros. Soc., Dec., 1904, p. 712.

with one another. This selective capacity may be called the "eye" of the plate.

Jour. Roy. Micros. Soc., Dec., 1904, p. 712.

Appendages of the eye. See *appendages.—Gephalic eye, a visual organ found in the head of lamellibranchs during the larval stage, and in adult gastropods. Philos. Trans. Roy. Soc. (London), 1903, ser. B. p. 311.—Dorsal eye. (a) See dorsal eye, under dorsal. (b) In chitons, one of the numerous pigmented spots scattered either irregularly or symmetrically over the outer surface of the exposed area of the shell. Same as *shell-eye.—Elliott eye (naut.), an eye worked over a thimble in a hawser or cable end.—Eye-agate. See *agate2.—Eye formula, a formula which expresses the arrangement of the simple eyes in the different groups of Arachnida.—Eye of the storm, the clear and calm region sometimes found in the center of a completely developed cyclone of extensive area, especially at sea.—Eye of the wind, the precise point from which the wind is blowing.—Hare's eye. Same as lagophthalmia.—Larval eye, in gastropods, a pigmented visual organ situated immediately behind the velum.—Marginal eye, in triclad and polyclad turbellarians, one of the eyes situated along the margin of the body. See *brain-eye.—Pallial eye, one of the numerous occili or pigmented spots, sensitive to the action of light, which are developed on different parts of the mantle of bivalve mollusks.—Parapineal eye, a rudimentary eyelike body, developed from the epiphysis of the brain of some vertebrates in addition to the more frequently found plineal eye.—Pseudocome eye, an insect eye in which the crystalline lens or cone is wanting, its place being taken by four cells filled with a transparent fluid and a smaller nucleated protoplasmic portion.—Selenium eye, a device provided with a selenium resistance and two alides for eyelids, and sensitive to light.—Tentacular eye, in polyclad turbellarians, one of the eyes situated upon the tentacles. See *brain-eye.</code>—Thermoscopic eye, an eye-like organ in certain cephalopods which has been

eye-animalcule (ī'an-i-mal'kūl) n. A euglena like, usually green, organism, having a colored eye-spot.

eye-area (î'ā'rē-ā), n. In decorative art, the eye-device, which includes the eye, the eye-lashes, and often the cheek-fold. Haddon, Evoin Art. p. 36.

eye-balm (i'bām), n. The goldenseal, Hydras-tis Canadensis, used for affections of the eyes. eye-band (i'band), n. A boat's mast-band fitted with one or more eyes or rings for holding ropes or blocks.

bender (i'ben'der), n. A machine for formaye-bender (1 Den der), n. A machine for forming loops or eyes on the ends of bars, rods, screw-bolts, etc., by bending the end of the bar round a forming-tool; an eye-bolt machine. It is made in various forms, from that of a small hand-power machine to large and powerful machines for bending the ends of rods and bars into crooks, loops, and angles.

eye-block (1'blok), n. In marine hardware, any form of metal block having a metal ring or eye at the top.

at the top.

eye-bolt, n.—Nut eye-bolt, an eye-bolt in which the bolt is plain except at the end where it has a thread and nut.—Rivet eye-bolt, an eye-bolt in which the bolt is a plain rivet and is fastened in place in a rivet-hole and the end upset as in ordinary riveting.—Screw eye-bolt, an eye-bolt in which the bolt is a wood screw.—Shoulder eye-bolt, any kind of eye-bolt having a shoulder under the eye for obtaining a firmer hold when screwed or riveted in place.

tube, + -ate².] To remove the tube from (the larynx) after intubation (which see).

extubation (eks-tū-bā'shon), n. Extraction the depth of liquor contained in the leach. Mod ern Amer. Tanning, p. 67.

ern Amer. Tanning, p. 67.

eyebright, n. Several plants which are either reputed remedies for diseases of the eye, or, more frequently, have bright flowers, usually with a central spot suggesting the pupil of the eye: (a) Any plant of the genus Euphrasia. (b) The sundew, Drosera rotundyloia. (c) The Indian-pipe, Monotropa unifora. (d) The pimpernel or poor-man's weather-glass, Anagallis arvensis. (e) The germander speedwell, Veronica Chamædrys: also called angel's-eye, bird's-eye, and god's-eye. (f) The bluet or innocence, Houstonia cærutea. (g) The officinal lobelis or emetic-weed, Rapuntium infatum.—Red eyebright, Odontites Odontites, a plant of the figwort family related to Euphrasia, native of Europe and Asia and naturalized in Maine and Nova Scotia.—Spotted eyebright, Eupa-



Spotted Eyebright (Eupatorium Two fifths natural size

(From Britton and Brown's "Illustrated Flora of the Northern States and Canada.")

torium maculatum, a handsome American species, with pink or purple flowers, found from New York to Kentucky, and westward to Minnesota and New Mexico; also, in British Columbia: so called from the bright flowers and spotted stems. Also called spotted joe-pye weed and spotted

eyebrow, n. 4. In arch., a molding over a window; a window-cap: in American usage, a light dormer without vertical sides set in a roof. eye-cap (i'kap), n. A tuft of scales, sometimes present on the basal joint of the antenna of microlepidopterous insects, which serves as a cap for the eye. *Proc. Zool. Soc. London*, 1897,

eye-cup (i'kup), n. A cup or glass the rim of which is curved to correspond to the contour of the orbit: used in the application of lotions

to the conjunctiva.

eye-dot (i'dot), n. In various invertebrates, one of the pigmented spots of supposed visual function, sometimes covered by a lens; an eyespeck. Such spots are found in a variety of situations on the body.

eye-and (i'end), n. That end of a telescope to which the eye is applied.

eye-fly (i'fli), n. A minute fly, possibly a Hippelates, which in East India in summer-time

swarms into the eyes of human beings and domestic animals. Kirby and Spence, Entomology, II. 130.

eye. or the back part of the interior of the eyeball which can be seen on ophthalmoscopical examination. Jour. Exper. Med., Oct. 25, 1900, p. 196.

eyelet (i'let), v. t. [eyelet, n.] To furnish or

eyelet (i'let), v. t. [eyelet, n.] To furnish or fasten with an eyelet.

eyelet-machine (i'let-ma-shēn'), n. In sewing-machine (i'let-ma-shēn'), n. In sewing-machine work, an overseaming machine fitted with a rotary feed. This feed-mechanism causes the fabric to move in a circle under the needle, and (since the needle has a reciprocating sidewise motion between stitches) the combined motions of feed and needle-bar produce a series of radial stitches placed round a center, this center being the opening of an eyelet. The opening may be cut in the fabric and the radial stitches placed round it, to bind the edge of the eyelet. The stitching can also be locked or purled into place on the fabric. A counting stop-motion is used on some machines, the machine automatically stopping when the required number of stitches has been made. Eyelet-machines are also used to cover and sew into place metal eyelets and reinforcing-rings, to do many forms of decorative stitching.

eyelet-raiser (i'let-ra'zer), n. In laundry-

eyelet-raiser (î'let-ra'zer), n. In laundrywork, a hand-tool which resembles a punch, used for raising and forming the eyelet-holes in shirt-fronts.

eyelet-set (i'let-set), n. A hand-punch for inserting an eyelet and fixing it in place.
eyelet-stitch (i'let-stich), n. In sewing-machine

work, the method of placing the stitches in

radial lines round an eyelet-hole or over a metal reinforcing ring or eyelet. See *eyelet-

eye-line, n. 2. In some primitive forms of trilobites, one of two raised lines which extend outward from near the forward end of

the glabella to the eyes.

eye-minded ('min'ded), a. In psychol., having a marked tendency to carry on mental operations (remembering, thinking, imagining, dreaming, etc.) in terms of visual images. of a visual, as opposed to an auditory or motor, type of mental constitution. A person is called eye-minded, in a narrower sense, when his memory is chiefly or exclusively visual, and, in a still narrower sense, when his verbal memory is thus visual in type.

The individual may be eye-minded or ear-minded or motor-minded.

E. B. Titchener, Outline of Psychol., p. 293.

eye-mindedness (i'min'ded-nes),n. In psychol., a type of mental constitution characterized by the predominance of visual processes as vehi-cles of the complex mental functions (thought,

memory, etc.)

eye-panel (I'pan'el), n. A panel-shaped decorative element which has developed through conventionalization from the representation

of an eye. Haddon, Evolution in Art, p. 23. eye-pedicel (i'ped'i-sel), n. A stalk or pedicel bearing an eye, as in various crustaceans. Also *eye-peduncle.

eye-peduncle (ī'pē-dung'kl), n. Same as *eye-pedicel.

pedicel.

syepiece, n. 2. In entom., the eye-covering in the pupee of lepidopterous insects. A. S. Packard, Text-book of Entom., p. 631.—Achromatic eyepiece, any eyepiece in which chromatic aberration is approximately eliminated.—Comet eyepiece, a telescopic eyepiece, of low power and large field, especially adapted for use in the observation of comets and similar objects.—Compensating eyepiece, an ocular used with apochromatic objectives, and so constructed as to compensate for errors of aberration not entirely eliminated in the objective itself.—Compound eyepiece, an ocular system which consists of two or more lenses.—Continental eyepiece, an ocular the mounting of which consists of a tube of uniform diameter.—Deep eyepiece, an eyepiece which magnifies the real image ten or more eyepiece, n.

diameters.—Goniometer-eyepiece, an eyepiece designed for making angular measurements, especially of the angles of crystals in the microscope field.—High eyepiece, an eyepiece of considerable magnifying power.—Index eyepiece, an eyepiece provided with one or more adjustable points in the plane of the real image for locating and making rough measurements of the position of objects in the field.—Kellner's eyepiece, an ocular lens system of the Ramsden type in which the eye-lens is made achromatic and the field-lens is placed in the front focal plane of the former. Also called orthoscopic ocular.—Monocentric eyepiece, an ocular lens system for telescopes, designed by Steinhell. See the extract.

The Steinheil monocentric eyepiece is a triple glass, achromatic, and composed of two flint menisci of different thicknesses capping a double convex crown on both sides.

Todd, Stars and Telescopes, p. 341.

ent thicknesses capping a double convex crown on both sides. Todd, Stars and Telescopes, p. 341.

Nelson's eyepiece, a microscopic ocular provided with a micrometer-screw and cross-hairs.—Orthoscopic eyepiece, an eyepiece in which the field-lens is in the focus of the achromatic eye-lens. See Kellner's keyepiece.—Parfocal eyepieces, a set of eyepieces so constructed as to be interchangeable without readjustment of the focus of the microscope.—Periscopic eyepiece, a positive ocular lens system which consists of a triple eye-lens and double convex field-lens.—Polarixing eyepiece, (a) A spectroscopic eyepiece. (b) An eyepiece with right-angled reflection-prism attached to the eye-lens, so that the observer looks in at the side, perpendicularly to the axis of the instrument.—Projection-eyepiece a lens system which corresponds to the eyepiece of an ordinary microscope, but is used in conjunction with the objective in the projection of microscopic objects upon the screen.—Searching eyepiece, in micros., an eyepiece of low power and large field, adapted to the ready finding of object, under the microscope rather than to the detailed observation of them when found.—Solid eyepiece, a negative ocular consisting of a single solid cylinder of glass with curved end-faces, the face of lesser curvature serving as field-lens, that of greater curvature as eye-lens: designed by Tolles.—Spectroscopic eyepiece, an attachment to a telescope or microscope which consists of a more or less complete spectroscope with alit, dispersion-prisms, scale for wave-lengths, and the necessary lense: applied in place of the ordinary eyepiece and used to produce a spectrum of the real images.—Stauroscopic eyepiece, an form of polarizing eyepiece with quarts plate, used in the examination of minerals.—Working eyepiece, any eyeplece used for observing the details of a microscopic object, as distinguished from a searching keyepiece, which is employed in finding the object in a field of high power.

eye-plate (i'plat), n. A chitinous sciente in Ez., Ezr. Abbreviations of Ezra. which the eyes of Acarina, of the family Hy- Ezek. An abbreviation of Ezekiel.

drachnidæ, are placed. Annals and Mag. Nat. Hist., Nov., 1903, p. 505.

eye-purple (i'per'pl), n. Same as rhodopsin.
eye-ring (i'ring), n. In optics, the exit-pupil of a lens system; a circular space within which the eye of the user of an optical instrument must be placed in order to utilize fully the field of view. P. Drude, Theory of Optics, p. 77.

eye-root (i'röt), n. Same as *eye-balm.
eye-shield (i'shēld), n. A covering for the
eyes designed to protect them from injury, as
by flying particles, by mud and dust in riding
in automobiles, etc.

eye-strain (î'stran), n. Weakness resulting from excessive use of the eyes, from use of the eyes in a bad light, or from use of them without correcting glasses when muscular imbal-ance, astigmatism, or other form of ametropia is present. Headache, dyspepsia, and various other reflex disorders are, at times, due to it. eye-structure (ī'struk"tūr), n. See *struc-

eye-tube (i'tūb), n. The tube of the eyepiece in a telescope or other optical instrument.

eye-tubercle (i'tū'bėr-kl), n. One of paired prominences on the exterior of the valves of the Ostracoda which indicate the position of the lateral eyes.

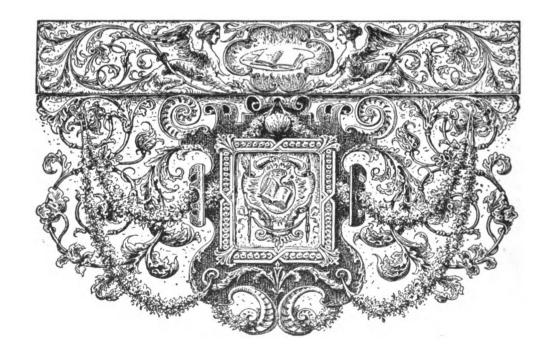
eye-tumulus (ī'tū'mū-lus), n. The raised portion of the cephalothorax of certain spiders which contains the eyes. Proc. Zool. Soc. London, 1896, p. 742.

eye-wattle (i'wot'l), n. A fleshy excrescence lying near or about the eye of a bird.

eye-wire (i'wir), n. Wire drawn with a concave side, for making the loops to hold the

lenses in eye-glasses or spectacles.

eye-worm (i'werm), n. A nematoid worm, Filaria lentis, found in the human capsula lentis; also, F. loa, which occurs in the conjunctiva of negroes on the Kongo.







5. An abbreviation (d) (2) in

5. An abbreviation (d) (2) in a ship's log-book, of furlong; (e) In elect., of farad; (f) of farthing; (g) of fathom; (h) of field of vision; (i) of fiorin; (j) of folio; (k) of foot; (l) in music, of forte (loud).—7. [L. c.] In elect.:

(a) A symbol occasionally used for magnetomotive force, in ampere-turns. See magnetic *circuit. (b) A symbol of magnetic reluctance.

—8. A symbol of focal distance: F', first focal distance; F', second focal distance:—F system, A system of rating the disphragms or stope for lenses in which the designations indicate the ratio between the diameter of the opening and the focal length of the lens.—The three Fs. See three.

fa (fä), v. i. [fa, n.] To sound the fourth

fa (fā), v. i. [fa, n.] To sound the fourth note of the scale in solmization: as, do, re, me, fa, sol (or soh), etc. [Nonce-word.]

Pet. I will carry no crochets: I'll re you,
I'll fa you; do you note me?
First Mus. An you re us and fa us, you note us.
Shak., R. and J., iv. 5.

fabaceous, a. 2. Belonging to the plant family Fabaceæ.

Fabian, a. 2. Designating a variety or school if of socialism more flexible and opportunist than the socialism of Marx and the International, and laying emphasis on municipal ex-periments in public ownership. See *Fabian Society.— Fabian Society, a prominent socialistic society founded in London about 1884.

In municipal politics, again, especially in London, the Fabian Society, founded in 1884 by a group of young literary men, had exercised some influence; but, if we compare the "Fabian Essays" of 1889 with the later utterances of their writers, it becomes clear that these Socialists have become for the most part hearty Radical politicians.

Encyc. Brit., XXXII. 668.

II. n. A member of the Fabian Society. fabianine (fā'bi-an-in), n. [Fabiana + -ine2.]
A coloring-compound contained in the violet flowers of pichi, Fabiana imbricata: said to be

pichi.

fabiculture (fab'i-kul-tūr), n. [L. faba, bean, + cultura, culture.] The cultivation of beans or other leguminous plants.

fabric, n. 5. In petrog., the pattern of a rock produced by the shape and arrangement of the crystalline or non-crystalline

fication of igneous rocks, under *rock1.)
fabricative (fab'ri-kā-tiv), a. [fabricate + ive.] Possessing power to fabricate or make. Margaret Fuller.

fabula (fab'ū-lä), n. [L. See fable.] In old law: (a) A covenant or contract. (b) Among the Lombards, etc., a marriage contract; a will. façade, n. 2. In organ-building, same as *prospect, 12.

face (n, n), 15. (c) See the extract.

21. In geom., the angle of two consecutive edges of an angloid.—22. In arch., the outer and generally vertical surface of any part of a face-milling (fas mil'ing), n. building, whether a single stone or course of stones, or a whole side, front, or rear. When a wall is not concealed within by plastering and woodwork

it may even be spoken of as having an outer and an inner face-mite (fās'mīt), n. A small mite, Demodex face. Before a stone is put in place each one of its surfaces may be called a face, but when placed in the wall it folliculorum, of worm-like form, living in the has two beds, two joints (vertical), a face, and a back.

For a face of a building in the sense of front, see façade. 23. In turpentine orcharding, the surface of wood exposed on the side of the trunk of the pine to cause the resin to flow. There may be two or three faces to a tree. A crop consists of about 10,500 faces.—24. In fort., the outer side of a bastion or lunette: in contradistinction to the inner side or flank.—25. In mech.:
(a) A smooth or polished surface. (b) The (a) A smooth or polished surface. (b) The side of a slide-valve which slides on the seat; the seat or surface on which a slide-valve travels. (c) The contact-surface of a valve which lifts from its seat to open the passage

which lifts from its seat to open the passage through.—Dry face, in turpentine-mating, that portion of the face of a bled tree which has become upproductive.—Heavy face, a term descriptive of a boldfaced printing-type like this:

THIS IS TITLE TYPE ON 6-POINT BODY. Often called fat-face.—To lose face, to lose one's credit, reputation, good name, or self-respect; be or feel humiliated in regard to one's standing in the eyes of othera.—To save one's face, to act in such a way as to preserve one's credit, standing in the eyes of others, or one's self-respect.—A slap in the face, a sudden rebuff or insult.

Facel v. t. 6. In post-office usage, to arrange

ace1, v. t. 6. In post-office usage, to arrange (letters) with their faces in one direction: (letters) with their faces in one unrection. as, to face the stamped and paid letters.—7. To give a false face or surface to; cause to imitate something else, fraudulently; specifically to solor (tea or coffee) so as to give a

imitate something else, fraudulently; specincally, to color (tea or coffee) so as to give a false impression of superior quality.

Paddy husks and many kinds of leaves faced with China clay, scapetone, catechu, and black lead also found their way abundantly into tea. On the European side, exhausted leaves were again dried, impregnated with catechu and gum, and faced up to do duty as fresh tea.

Encyc. Brit., XXIII. 101.

8. In hort., to place a layer of apples (usually with the stem ends uppermost or outermost) next the head of (the barrel), so that the fruit will have a uniform and attractive appearance when the barrel is opened. [ace-bodded (fās'bed'ed), a. In masonry, not

flowers of pichi, Fabiana imbricata: said to be identical with crocin.

Fabianism (fā'bi-an-izm), n. The socialism advocated by the *Fabian Society (which see).

Fabianist (fā'bi-an-ist), n. A member of the *Fabian Society (which see).

fabianol (fā'bi-an-ol), n. [Fabiana + -ol.] The odoriferous constituent of the volatile oil of the dried leafy twigs of Fabiana imbricata. It imparts its characteristic odor to the drug pichi.

face-bodded (fās'bed'ed), a. In masonry, noticing a stone or course in which the plane of stratification of the stone is placed parallel with the face of the masonry, and not perpendicular to the face and horizontal, as is now usual.

face-bodded (fās'bed'ed), a. In masonry, noticing a stone or course in which the plane of stratification of the stone is placed parallel with the face of the masonry, and not perpendicular to the face and horizontal, as is now usual.

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face-bodded (fās'bed'ed), a. In masonry, noticing a stone or course in which the plane of stratification of the stone is placed parallel with the face and horizontal, as is now usual.

projecting radially from the rim; a pin; one of the teeth of a pin-gear.

face-cutter (fās'kut'er), n. See *milling-cut-

rer, 2.

Paced card. (b) A card which is found face upward in the pack: distinguished from one which is faced after it has left the dealer's hand and which is called an exposed card.

A wheel having teeth parts: distinguished from the granularity or face-gear (fās'gēr), n. A wheel having teeth size of the parts, and the crystallinity or degree of crystallization. (See quantitative classification of igneous rocks, under *rock1.)

[abricative (fab'ri-kā-tiv), a. [fabricate + ive.] Possessing power to fabricate or make.

Managaret Fuller

ing process.

In old face-hardening (fās'hār'dn-ing), n. The proAmong cess of hardening the face or outside surface of a piece of metal by the addition of carbon the Lombards, etc., a marriage contract; a will.

acade, n. 2. In organ-building, same as *prospect, 12.

face1, n., 15. (c) See the extract.

The demands were for a rise of 15 per cent. in wages, an eight hours' shift from bank to bank, the payment of wages twice a month, and other concessions. On 18th May the Coal Association at Essen agreed to an eight hours' day "at the face," with certain exceptions.

Encyc. Brit., XXXIII. 26.

21. In accomption the angle of two consequitives treated carefully with a view to the appearance or some other hardening element. Usually the or some other hardening element. Usually the or some other hardening element. Usually the view to the addition of carbon from the addition of carbon from the contact with the surface it is desired to harden. This is then subjected to a high heat for a length of time depending on the depth to which the hardening is to penetrate. By this treatment cementation that the place in a kind of oven with carbon in some form in contact with the surface it is desired to harden. This is then subjected to a high heat for a length of time depending on the depth to which the hardening is to penetrate. By this treatment cementation takes place and the plate to be hardened is placed in a kind of oven with carbon in some form in contact with the surface it is desired to harden in skind of oven with carbon in some form in contact with the surface it is desired to harden in skind of oven with carbon in some form in contact with the surface it is desired to harden in skind of oven with carbon in some form in contact with the surface it is de

treated carefully with a view to the appearance

ace-milling (fas'mil'ing), n. The operation of machining metal pieces with a mill having teeth on its face rather than on its periphery, as in the usual form of mill.

supposed to be an occasional cause of comedones and blackheads in human beings. face-plate, n. 4. The cover of a journal-box on a railroad-car.—5. The outer plate, or web, which joins the rim and

web, which joins the rim and the hub of a car-wheel.—Face-plate coupling. See *coupling.

Face mite (Demoder facer, n. 4. A post-office employee whose business is to arrange letters with their face-symbol (fās'sim'bol), n. In crystal., the symbol by which a crystal face or plane is designated.

is designated.

facet¹, n. 5. In the embryo of *Pentastomum*,
the circular thickening left on the detached integument at the site of the dorsal cone after the separation of the embryo from the integument. Also facette. Compare *cervical cross. ment.

facetiation (fa-sē-shi-ā'shon), n. [*facetiate (< faceti-ous + -ate²) + -ton.] The making of fun; the subjection of a matter to facetious treatment.

After some lumbering facetiation about "those countless volumes of contemporary biography wherein successful men of business are frequently invited to insert their lives and portraits," he goes on to assure us that "Emerson's Representative Men were of a different stripe from these" men.

W. D. Howells, in N. A. Rev., April, 1901, p. 627.

face-wall (fās'wâl), n. A wall built to sustain the face of an excavation: opposed to a retaining wall, which sustains material which has

peen placed behind it.

face-work (fas'werk), n. In masonry, that part
of a wall, or the like, which forms the exterior, especially of the side exposed to view.
It is generally composed of better material and is more
carefully laid up. Thus, in a brick wall, the face-work
may be of what are called face-brick and laid with thinner
joints.

Pacial chorea. Same as *tic non-douloureux.— Facial neuralgia. See *neuralgia.— Facial spasm, intermittent contraction of the muscles supplied by the facial

faciend (fā'shi-end), n. [L. faciendum, neut. fut. part. of facere, make, do: see fact.] Any magnitude or symbol which is operated upon:

thus, a multiplicand is a faciend.

facies, n. 5. Specifically—(a) In geol., the entirety of the lithologic and paleontologic characteristics resulting from the external conditions which determine the existence of any tions which determine the existence of any particular fauna or flora for a given region. These characteristics are defined by physical conditions, such as climate, altitude, or bathymetry, and the geological or chemical nature of the medium. (b) In phytogeog., the physiognomy or characteristic appearance of a vegetation, depending upon the one or several species which predominate in it: or eral species which predominate in it; the characteristic growth itself. A plant for-mation has one facies when there is one mation has one facies when there is one controlling species, and several when there are several such. See *character-plant. (c) In petrog., the different modifications of one mass of igneous rocks, distinguished by their texture, or by their mineral or chemical composition: as, granitic and porphyritic facies of a dike; a gabbro facies of a diorite mass.—Adenoid facies, a dull, stupid expression, with habitually open mouth, characteristic of children with extensive adenoid growths in the nasopharynx.—Facies abdominally spinched, drawn face, expressive of severe pain and anxiety, seen in sufferers from disease of the abdominal viscera, usually with peritonitis.—Facies cadaverica. Same as facies Hippocratica (see Hippocratic face).—Facies ovarica, a pale, drawn face, with thin and compressed lips, characteristic of a woman suffering with disease of the ovarian, observed in sufferers from disease of the uterus.



facies-suite (fā'shi-ēz-swēt), n. A series of modifications of one rock-mass in which the parts vary in composition or in texture, or both. It is distinguished from a rock-suite, which consists of rocks forming distinct geological bodies, erupted at different times, but genetically related to one another (consanguineous). Brögger, 1894.

facilitative (fā-sil'i-tā-tiv), a. [facilitate +

ive.] That serves to facilitate.

facing-head (fā'sing-hed), n. In machine-shop practice, an attachment or supplementary tool for a boring-machine used in facing or finish-

ing cylindrical work.
facing-lathe (fā'sing-lāŦH), n. A metal-working lathe having a head-stock and tool-carriage

ing lathe having a head-stock and tool-carriage only. There is no tail-stock and the carriage, mounted on the bed, can be placed directly in front of the work on the chuck. It is used in facing or finishing flat surfaces or parts of the work. A similar lathe for finishing wood surfaces is called a face-lathe.

facing-machine, n. 2. In marble-working, a machine for holding flooring-tiles in position while they are being faced or rubbed down to a true surface on a rubbing-bed. It consists of a group of vertical, weighted, and pointed rods supported in a frame suspended over the bed. The point of the rod is centered on the back of the tile and holds it in place, while leaving it free to revolve as the bed turns under it. See rubbing-bed.

3. A chucking-machine, particularly equipped

3. A chucking-machine, particularly equipped for facing or finishing the ends of axles, bolts, crews, and studs.

screws, and studs.

facing-slip (fā'sing-slip), n. In postal service, a slip of paper accompanying each package of letters, showing the destination of the package, the point of departure, the date, and the name of clerk sending it.

facing-tool (fā'sing-töl), n. In machine-shop practice, a cutting-tool in a boring-mill or an end-mill or other cutter in a milling-machine, need to foce or finish the exterior surface of a

used to face or finish the exterior surface of a

face, + lingua, tongue, + -all.] Relating to both the face and the tongue: said of a form of paralysis.

factor, n.—Association factor. See *association.— Domestic factor, one who resides in the same country as his principal. See foreign *factor.—Factor group of G in respect of H, the group defined by the division of the operations of G into sets in respect of the self-conjugate subgroup H.—Factor of safety, as commonly used, the ratio of the ultimate strength or breaking stress of a plece of material to the load to be actually applied; the ratio of the breaking stress to the working stress; in a stricter and more recent use, the ratio of the elastic limit of the real measure of the strength of a piece of material, which is to be repeatedly strained, is its elastic limit, not its ultimate strength, and the factor of safety should hence be based upon the elastic limit.—Foreign factor, one who resides in a different country from his principal. The importance of the distinction between a domestic and a foreign factor lies in their transactions with third parties. In the absence of an agreement to the contrary, a domestic factor is presumed to bind his principal, and in case credit is given a purchaser is responsible to both the factor and his principal; while foreign factors are held personally liable upon contracts made for their principals, and if credit is given or taken, it is upon the exclusive responsibility of the factor.—Form factor. (a) The ratio, expressed definably between the volume of a tree, or portion of a tree, and that of a cylinder of the same height and diameter. The volume of this cylinder multiplied by the form factor sit used for determining the actor is used for determining the exclusive stemachable contents of stem, crown, or both. A form factor is used for determining the actor is used for determining the exclusive stemachable contents of stem, crown, or both. A form factor is used for determining the proper stemachable contents of stems, crown, or both. A form factor is used for determini

impedance of a conductor or circuit to its ohmic resistance. Houston, Dict. Elect.—Inductance factor, in elect., the ratio of the wattess or reactive current to the total current, in an alternating-current circuit.—Lag factor, in elect., a term formerly used for power factor. See power */rctor.—Load factor, in electric-distribution systems, the ratio of the average load on the system to the maximum load during the day.—Power factor, in elect., the ratio, in an alternating-current electric circuit, of the true power divided by the apparent power (see apparent power), or the watts divided by the volt-amperes.—Spherical reduction-factor, in photom., a numerical factor by means of which the mean spherical intensity of the light emitted in a single given direction.—Unbalancing factor, the greatest percentage of excess or deficiency of power, over or under the mean power, that occurs in one revolution of an engine; the percentage of fluctuation in the tangential pressure on the crank-pin above or below the mean pressure during a revolution.

factorage, n. 3. The aggregate of all constituent factors.

uent factors.

uent factors.

Pactorial periodicity, that of a function where F(x + w)

= C F x. Here C is a constant. Foreyth.

factorization (fak-to-rī-zā'shon), n. [facto-rize + -ation.] In math., the resolution into factors.

factorize, v. t. 2. To resolve into factors.

faculary (fak'ū-lā-ri), a. [facula + -ary².]

Pertaining to faculæ.—Faculary fiames, in astron, brilliant masses of vapors, principally calcium, overlying the faculæ of the sun's surface and shown by photographs taken with the spectrohellograph. H. Deslandres. See

faculid.

*faculid (fak'ū-līd), n. [Also (as F.) faculide; ⟨ facula + -id².] In astron., same as *faculary flames (which see). See the extract.

(Jacum 7 - 10 - 1)

lary flames (which see). See the extract.

The images of the atmospheric vapors have also received widely different names. Hale calls the brilliant parts of these images "bright spots," supposing them to be emitted by the vapors confounded with the highly incandescent portions. Since 1903 he gives them the name of flocculit, referring to their form. In turn, I have always considered them as emitted by the vapors of the atmosphere, and have called them faculary flames. I propose the word faculate, which is shorter.

H. Desiandres (trans.) Sci. Amer. Sup., Oct. 15, 1904, [p. 24,070.

piece of work.

faciobrachial (fā'si-ō-brā'ki-al), a. [L. facies, face, + brachium, arm, + -all.] Relating to both the face and the arm.

faciocervical (fā'si-ō-sēr'vi-kal), a. [L. facies, face, + cervix (cervic-), neck, + -all.] Relating to both the face and the neck.

faciolingual (fā'si-ō-ling'gwal), a. [L. facies, face, + lingua, tongue, + -all.] Relating to both the face and the tongue: said of a form of naralysis.

the word faculum, which is sufficient, which is sufficient, facies, face, + brachium, arm, + -all.] Relating to both the face and the neck.

faciolingual (fā'si-ō-ling'gwal), a. [L. facies, face, + lingua, tongue, + -all.] Relating to both the face and the tongue: said of a form of naralysis.

the word faculum, which is sufficient, find word facility, and the word faculum, which is sufficient, facies, facient, f

facultate (fak'ul-tāt), v. t.; pret. and pp. facultated, ppr. facultating. To give power or authority to; invest with faculty; empower. Baring-Gould.

*anaërobi

oic, *anaerobic.
facultize (fak'ul-tiz), v. t.; pret. and pp.
facultized, ppr. facultizing. [facult-y + -ize.]
To endow with practical ability.
faculty, n. 7. In alg., the product of a series
of factors in arithmetical progression, a(a + b)
. . . (a + (m - 1)b).

Such a product was called by Kramp a faculty, and he introduced for it the notation a-h, calling a the base, m the exponent, and b the difference of the faculty. faculty.
G. Chrystal, Alge-[bra, IL 374.

[bra, II. 374.]
Faculty psychology. See *psychology. Faculty theory of mind. Same as faculty *psychology. fadang (fä'-däng), n. [Chamorroname.] A name in Gnam

name in Guam of Cycas circina-lis, the nuts of which, though poisonous, are used by the natives as a foodstaple in times



staple in times of scarcity. To remove the poisonous principle the kernels are soaked in water, which larepeatedly changed. They are then dried and stored. When required for food they are ground into meal on a stone slab, mixed with water, and baked in the form of thin cakes. Also called federico. See Cycas, 1.

fadda (fäd'dä), n. [Ar. fadda, silver, a para.] The Egyptian para, equal to one fortieth of a niaster.

faddism (fad'izm), n. [fad + -ism.] A disposition to take up with fads; a fondness for fads.

faddy (fad'i), a. $[fad + -y^1]$ Fond of or given to the pursuit of fads. fado (fä'dō), n. [Pg., fate: see fate.] 1. A Portuguese form of folk-song. See the extract.

The nearest we can get to the original signification of the word is to call the "fado" the laborer's song of fate; which is more than we can do with the present form, for the Portuguese indiscriminately call "fados" what we designate as serenades, ballads, itgs, and sailor's hornpipes.

Jour. Amer. Folk-lore, July-Sept., 1902, p. 165.

2. A Portuguese dance common among the lower classes, or the music for it. The characteristic pattern of the music is secula, n. See fecula. fæcula, n. See fecula.

Facula, n. See fectua.

Faentine (fā-en'tin), a. Of or pertaining to Faenza, a city in the province of Ravenna, Italy: as, Faentine majolica.

faeton, n. A simplified spelling of phaeton.

Fagaceæ (fa-gā'sē-ē), n. pl. [NL. (Alexander Braun, 1864), < Fagus + -aceæ.] A family of dicotyledonous archichlamydeous (apetalous) trees or shrubs of the order Fagales, typified by the genus Fagus; the beech family. It includes also the cak and chestnut, and is characterized by monoeclous flowers, the staminate often in catkins, the pistillate with an urn-shaped or oblong perianth and a 3-7-celled ovary, the fruit a 1-seeded nutor acorn. There are 5 genera and about 375 species widely distributed. See beech, Castanea, chestnut, Fagus, oak, Quercus.

fagaceous (fa-ga'shius), a. Belonging to the family Engages, participant, or recepting

family Fagaceæ; pertaining to or resembling the beech.

the beech.

Fagales (fā-gā'lēz), n. pl. [NL. (Engler, 1886),

Fagales (fā-gā'lēz), n. pl. [NL. (Engler, 1886),

Fagus + -ales.] An order of dicotyledonous archichlamydeous plants including the families Fagacex and Betulacex, or the beech and birch families. It is therefore the same as the Cupuliferx of many authors.

Fagara silk. See *silk.

fagine (fā'jin), n. [L. fagus, beech, + -ine².] An alkaloid said to occur in beechnuts.

fagot, v. t. 3. To ornament (a fabric) by drawing out a number of threads and tying together in the middle a series of the cross-threads. See fagoting.

See fagoting.

fagot-drain (fag'ot-dran), n. A drain made
by placing fascines, fagots, or brush in the
bottom of a trench and covering the same with stones or earth.

Facultative aërobia, anaërobe, anaërobia, regeneration. See *aërobia, etc.
Facultatively aërobic, anaërobic. See *aëro

Facultatively aërobic, anaërobic. See *aëro-

fagottino (fa-got-tē'nō), n. [It., dim. of fagotto: see fagotto.] A small bassoon, usually with a pitch a fifth above that of the ordinary bassoon.

Fah. An abbreviation of Fahrenheit.

fahaka (fa-hā'kā), n. [NL. fahaka, intended to represent Ar. faqqāqa.] The swell-fish or ball-fish, Tetraodon fahaka, found in the lower Nile and the neighboring seas.

faience, n.—Armorial faience, table-services decorated with the armorial bearings of noble families, reli-



Armorial Faience in Rouen Style In the Pennsylvania Museum, Philadelphia.

gious houses, etc. These form a distinctive class of faience produced at Rouen, Lille, Nevers, Paris, and Bordeaut. M. L. Solom, French Faience, Glossary.—Faience à la COTRE [F.], a variety of tin-enameled pottery in which the principal decorative motif is a cornucopia of many-colored flowers. This pattern was first used on old Rouen faience, and was imitated later elsewhere in France and in other countries.—Faience à niellure [F.], a name sometimes given to Henri II. ware, from the resemblance



Falence à la Corne. - Plate, Rouen, France In the Pennsylvania Museum, Philadelphia.

of the inlaid clay decorations to niello-work. See faience of Oiron, under faience.—Faience an reverbere [F.], a term applied to decorated pottery which has been fired in a muffle or reverberatory kiln. See reverberatory furnace, under furnace. Also called reverberatory.—Greenpoint faience. See American *pottery (b).—Lambeth faience, an art pottery made at Lambeth, England, on the principles of the old Italian majolica, with underglaze painted decorations.—Palissy faience. See Palissy ware, under ware?.—Saint-Porchaire faience, pottery made of clay from Saint-Porchaire near Oiron, France: same as Henri II. ware, faience d'Oiron, and *faience a miellure (which see).—Stanniferous faience, pottery coated with a tin glaze or enamel, such as majolica, dell, and the earthenware of the old French potters. See also stanniferous *kenamel</code>, and stanniferous ware, under vare?.

faiencerie (fa-yoù-se-rē'), n. [F., \ faience, faience.] A pottery in which stanniferous faience is made: applied particularly to the old French manufactories.

falencier (fa-yoń-syā'), n. [F.] 1. A dealer in crockery.—2. A maker of faience; specifically, a potter who makes stanniferous faience in the style of the old French tinenameled wares.

fail-spot (fal'spot), n. In forestry, a place where natural or artificial reproduction has failed. [Colloq.]

Pailure of issue, lack of living children at the time of death: but the death of a child, capable of inheriting, prior to the death of the father will not deprive the latter of his right of courtesy; and there is no failure of issue if a child is born within the period of gestation after the death of the father.

faint, a. 8. Oppressive: applied to the atmosphere. Hawthorne.

faints-back (fants'bak), n. In the distillation faints-back (fants'bak), n. In the distillation of whisky, the receiver in which the faints, or weak spirit, is collected, to be afterward redistilled: same as *faints-cask. See faint, n., 2. faints-cask (fānts'kask), n. See *faints-back. Fair catch. See *catch!.—Fair hit or fair ball, in base-ball, a ball hit within the limits of the foul-lines.—Fair-play men, a name given by settlers in Pennsylvania, in a tract between the Lycoming and Pine creeks, about the year 1760, to three men elected annually, in rotation, to whom authority was given to determine all questions of boundaries at a time when the land was still unsurveyed because it was doubtful whether it had ever been ceded by the Indians. Their decision was final, and was reinforced by the common consent of the community.—Fair pleader. See *pleader.

fairies'-arrow (fār'iz-ar'ō), n. Same as elf-

fairles'-arrow (far'iz-ar'ō), n. Same as elf-

fairish (făr'ish), a. [fair¹ + -ish¹.] Pretty fair; passably good, etc.: as, a fairish crop. fair-lead (făr'led), n. Same as fair-leader. fair-stitch (făr'stich), n. A sort of machine-sewing stitch in which the visible portion of

the thread between the stitches on the face, or fair side of the work, appears to be raised or rounded instead of lying flat, as in ordinary plain or flat sewing. It is done by creasing the stitched material to cause the exposed portion of the thread to be forced up into a rounded form.—Fair-stitch machine, in shoe-manuf., a sewing-machine for sewing harnesses and boots and shoes, having an attachment for forming a fair-stitch.

fair-trader (far'tra'der), n. One who advocates or favors the fiscal system known as fair

trade (which see, under trade).

fair-water (far wa'ter), n. In ship-building, a cover or filling-piece fitted in front or rear of any projection or abrupt break in the surface of the under-water parts of a vessel's hull, to permit the water to flow past smoothly and

without eddying.

fairy-bells (far'i-belz), n. The purple fox-

glove, Digitalis purpurea.
fairy-creeper (far'i-krē'per), n. The climbing

fumitory, Adlumia fungosa.
fairy-smoke (făr'i-smok), n. The Indian-pipe,
Monotropa uniflora.

fairy-stone, n. 2. In Scotland, the name of a clay concretion also called clay-dog or clay-See clay-stone and concretion, 3. stone. popular designation of a stone arrow-head, from the superstitious belief that it is of supernatural origin.—4. A fanciful name sometimes given to twin crystals of staurolite.

fairy-tale (far'i-tal'), n. 1. A tale or story about fairies.—2. A story as unreal and as incredible in its statements as fairies or tales about them.

faith-curist (fath'kū'rist), n. One who believes in the efficacy of faith and prayer by themselves as therapeutic agencies; a believer in faith-cure.

faith-mark (fath'mark), n. and characteristic doctrine of a religious faith. faith-philosophy (fath fi-los o-fi), n. A form of the philosophy of common sense which is distinguished by insisting that we ought to repose upon our natural tendency to view the origin of the universe and of high moral aspirations anthropomorphically. Common-sense philosophy proper, on the other hand, instead of saying that we ought to yield to certain dispositions to believe says that it is impossible not to believe certain doctrines upon sufficient consideration, and if the propositions are not too definitely enunciated.

faith-state (fath'stat), n. In psychol., an emo-tive state, characterized by the sense of com-munion with God and nature, which plays a prominent part in the psychological process of conversion. See the extracts.

That state of confidence, trust, union with all things, following upon the achievement of moral unity, which we have found, more or less tersely expressed, in every conversion considered, is the Faith-state.

J. H. Leuba, in Amer. Jour. Psychol., VII. 345.

The resultant outcome of them is in any case what Kant calls a 'sthenic' affection, an excitement of the cheerful, expansive, 'dynamogenic' order which, like any tonic, freshens our vital powers. . . We have seen how this emotion overcomes temperamental melancholy and imparts endurance to the Subject, or a zest, or a meaning, or an enchantment and glory to the common objects of life. The name of 'faith-state,' by which Professor Leuba designates it, is a good one.

W. James, Var. of Religious Exper., p. 506.

faitour's-grass (fā'törs-gras), n. The leafy spurge, Euphorbia Esula: so called because used by faitours or quacksalvers. See leafy spurge, under spurge².

ake¹, n.— Flemish fake (naut.), a number of turns of rope that are concentric, or have a common center, and lie flat on the deck instead of riding over each other.

falanstery, n. A simplified spelling of phal-

falanx, n. A simplified spelling of phalanx.
falarica (fa-lar'i-kä), n. [L., < fala, a kind of tower or scaffold from which missiles were thrown in sieges.] A missile bearing burning tow and pitch, used in antiquity and in the middle ages. It was thrown by a catapult or by hand.

by hand.

Falcate orange-tip. See *orange-tip.

falcial (fal'gial), a. [L. falx (falc-), sickle, +
-i-al.] Of or relating to the falx cerebri.

falcidia (fäl-thē'dē-ā), n. [Sp., < I.L. Falcidia
(sc. pars), the fourth part of an inheritance,
as secured by the lex Falcidia, 'the law of
(Publius) Falcidius,' a Roman tribune who
represed the lew (chout 40 R.C.) assuring to proposed the law (about 40 B.C.) assuring to the heir at least one fourth part of the whole inheritance.] In Sp. law, one fourth of an inheritance. It legally belongs to the heir. To heritance. It legally belongs to the heir. To protect it the heir has the right to reduce legacies to three fourth parts of the succession. Falciform body, in gregarines, one of the 6 to 8 sickle-shaped, nucleate bodies into which a pseudonavicella divides, each becoming a young gregarine.—Falciform

s, each becoming a young gregarine.—Falciform process

falcon, n.—Laughing falcon, a large South American hawk, Herpetotheres cachinans, which belongs to the accipitrine division of the birds of prey.

Falconiformes (fal-kon-i-fôr'mēz), n. pl. [NL. \(\) L. fulco, a falcon, + form, a, form.]
 \(\)
 An order which contains the diurnal birds of prey: divided by Pycrast into three suborders, Accipitres, birds of prey proper, Serpentarii, the secretary-bird, and Cathartæ, the American vultures. The term seems to have been first employed in an ordinal sense by Seebohm, 1890, in the "Classifica-tion of Birds."

falcula, n. S. Same as falx cerebri.

Falerian (fa-le'ri-an), a. [L. *Falerianus, <
Falerii.] Belonging or relating to Falerii, an
ancient city of Etruria, on the site of the modern Cività Castellana.

fall1, v. i. 14. In Scots law, to lose; forfeit; be deprived of: as, to fall from a right or estate.

To fall calm, to cease to blow, as the wind; become calm.—To fall down. (d) To show unexpected weakness; fail unexpectedly or completely. [Slang.]—To

fall on or upon. (c) In geom., to come precisely upon; rest upon; be congruent to.

Let the triangle ABC be applied to the triangle DEF, so that the point A may fall on the point D.

Ass'n for Improvement of Geom. Teaching, Plane [Geom., p. 25.

To fall within, in geom., to come within; rest inside

In the same way it may be proved that the line BA does not fall within the angle EFG.

Ass'n for Improvement of Geom. Teaching, Plane

23. An apron, attached to the front edge of a carriage-seat, suspended between the point of attachment and the bottom of the carriage-body.—24. The capture or surrender (of a besieged city or fortress): as, the fall

of Port Arthur.
fallage (fâl'āj), n. $[fall^1 + -age.]$ 1. The felling or cutting down of timber-trees.—2. Fallen branches collectively.

fall-apparatus (fâl'ap-a-rā'tus), n. apparat.] In psychophys.: (a) An instrument devised by Hipp for the control of his chrono-800De. An ivory ball drops from a variable height upon a metal plate, breaking and making electrical contacts as it falls. The electrical circuit includes the chronoscope, which thus registers the time of fall. (b) An instru-ment devised by Hering for the comparison of the binocular and monocular perceptions of

ment devised by Hering for the comparison of the binocular and monocular perceptions of depth. The eyes look through openings in a screen at a fixed black bead about 12 inches away. White beads are dropped by the experimenter at various distances, nearer and farther, from the black bead.

fall-chronometer (fâl'krō-nom'e-tèr), n. [G. fallchronometer.] In psychophys., a gravity-chronometer. The instrument consists ordinarily of a heavy screen of metal, falling practically without friction between vertical metal guides, and making and breaking electrical contacts as it drops. It may be used to mark off a known and constant time-interval, thus serving in place of hammer or pendulum as a control of the Hipp or other chronoscope; or, as a tachistoscope, to expose visual stimuli for a brief and accurately measurable period. E. B. Tüchener, Exper. Psychol., I. ii. 201.

faller, n. 3. In lumbering, one who fells trees.

faller-motion (fâ'ler-mo'shon), n. The action of the faller-wires on a spinning-mule during the process of winding the yarn into cops. Naemith, Cotton Spinning, p. 369.

faller-rod (fâ'ler-rod), n. Same as *faller-shaft.

faller-shaft (fâ'ler-shaft), n. A rod which runs lengthwise of the spindle-carriage of the spinning-mule and to which the arms of the faller-wire are attached. *Nasmith*, Cotton Spinning, p. 297.

fall-fish, n.—Red fall-fish, a small minnow, Notropis rubricroceus, found about waterfalls in tributaries of the Tennessee and Savannah rivers.
fall-flower (fâl/flou'er), n. The white-wreath aster, Aster multiflorus: so called from the lateness of its flowering. See white-wreath *aster.

falling-ax (fâ'ling-aks), n. An ax with a long helve and a long, narrow bit, designed especially for felling trees.
falling-wedge (fâ'ling-wej), n. A wedge that is driven into the kerf of a tree that is being cut down to cause it to fall in the desired direction.

drawn through a number of rivers at points where they have falls or rapids due to a common cause; specifically, a line of this character in the eastern United States, near the inner border of the Atlantic coastal plain, passing through Trenton, Philadelphia, Baltimore,

border of the Atlantic coastal plain, passing through Trenton, Philadelphia, Baltimore, Richmond, etc.

fallow² n. 2. In loose practice, the soil is merely neglected or plowed only once or twice for one or more sensons, for the sake of 'resting' it. This is often done in alternate years. In more scientific farming, except in situations where 'extensive' methods are justified (see *extensive, 6), a fallow may be either 'uncropped' or 'cropped,' but the ground is always cultivated. The technique of fallowing is very closely worked out in Great Britain, and less so in the United States, where conditions are more various and methods less settled; but the difference is partly of terms. See phrases below, and compare rotation of crops, under rotation; see also phrases under *excop.—Bare fallow, a fallow without crops; usually, in a specific sense, an uncropped fallow of a year's duration with thorough cultivation. In British practice, cultivation is begun in the autumn after the removal of grain, and is continued in the succeeding spring and summer; or sometimes it is not begun till winter, the larger part in any case falling in summer. As many as nine plowings and cross-plowings are sometimes given, besides numerous harrowings, etc. The object is the destruction of weeds and insect pests and the mechanical and chemical amelioration of the soil. Bare fallows have now largely given way to cropped fallows, though they are still approved by British authorities for stiff clays. For bare-fallowing to conserve moisture see dry *farming.—Cropped fallow, in Great Britain, a fallow in which the ground is occupied, at least in summer, by ananured and closely cultivated crop which serves the purpose of

cleaning and mechanical improvement, at the same time rielding feed, which is returned to the soil through the manure products; a green fallow.—**Dead fallow**. Same as bare *fallow.

In any case a saving upon the old dead or bare fallow.

J. Wrightson, Fallow and Fodder Crops, p. 31.

In any case a saving upon the old dead or bare fallow.

J. Wrightson, Fallow and Fodder Crope, p. 31.

Double-cropped fallow, a variation of root fallow in which a fodder crop is sown in the autumn and cut in the spring in time for the root crop. The practice of this kind of fallowing is called catch-cropping. See catch *crop.—Half, rag, or ragged fallow, a fallow in which a fodder crop is sown in autumn and cut late in the spring, the land being then fallowed during the summer and put in wheat in the autumn. [Great Britain,—Naked fallow. Same as bare *fallow?—Root fallow, in Great Britain, a cropped fallow in which, after winter fallowing, a root crop (see *crop) is grown.—Summer fallow, a bare fallow so called because the summer crop is omitted and because the tillage takes place chiefly at that season.—Winter fallow, a fallowing in which the soil is thoroughly cultivated during the period when not occupied by the summer crop: in Great Britain it forms part of a root fallow.

fall-phonometer. In psychophys., a gravity-phonometer: an instrument consisting of uprights with mechanical releases which allow balls to drop from variable heights upon plates of

drop from variable heights upon plates of metal, slate, etc. Given constancy of the weight of the balls and homogeneity of materials of balls and plates, the intensity of the sound produced by the impact of the ball on the plate is proportional to the height of the fall. The fall-phonometer thus furnishes a series of sound-stimuli which are intensively graded in terms of some arbitrary unit.

fall-poison (fâl'poi'zn), n. Same as fly-poi-

fall-tube (fâl'tūb), n. A glass tube about 800 millimeters long through which, in a mercury-pump, the mercury falls to create a vacuum. M. W. Travers, Exper. Study of Gases, p. 8. fallway (fâl'wā), n. A hoist-shaft or an opening through which freight is hoisted: so called from the custom of using a block and fall to do the hoisting.

do the hoisting.
fall-wind (fâl'wind), n. A wind that descends rapidly from the upper regions of the atmosphere. Such are the foehn, the bora, the mis-

faloos, n. See *jalus.

false, a. 10. Additional; assistant; subsidiary; supplementary; temporary; used to supplement or temporarily displace something: which is under construction.—False banana.
Same as *banana, 2.—False bow. Same as *ice-prov.
—False cirrus. See *cloud!.—False grain, morning, etc. See *grain!, etc.—False music. See musica ficta, under musica.

falset, v. t.— To false a doom. See *doom.

falset, v. t.— To false a doom. See *doom.

false-card (fals 'kārd), v. i. To play a card
with a view to deceiving one's adversary as to
the true holding in the suit, as to win with the ace when holding the king also.

The dealer false-cards so that the adversaries will not mow that he holds the queen.

Elwell, Bridge, p. 82. falsework (fâls'werk), n. See false work,

falsidical (fål-sid'i-kal), a. [L. falsidicus, < falsus, false, + dicere, speak, + -al¹.] Expressing falsehood; falsifying: opposed to veridi-

falúa (fä-lö'ä), n. [Sp.: see felucca.] A boat, used in the Philippine Islands, resembling in general a felucca, but with a square sail, usually of matting.

Falunian (fä-lu'ni-an), n. In geol., the Upper Miocene strata in France which are character-

falus (fa-lös'), n. [Also falos, floose, fluce; Hind. falus, fulüs, a small copper coin, Pers. fulüs, small copper coin, \$\lambda\$ Ar. falüs, filüs, fulüs, money, cash.] In North Africa, Arabia, India, and neighboring countries, a small copper coin of various values ranging from one fourth to one tenth of a cent.

P. A. M. An abbreviation of Free and Ac-

cepted Masons.

family.

Fame-flower (fām'flou'er), n. See Talinum.

Famennian group. See *group¹.

fa mi (fā'mē'). [See fa and mi.] In music, an old name for a half-step or semitone.

familial (fa-mil'yal), a. [L. familia, family, +-al².] 1. Occurring in members of the same family, though not necessarily hereditary: said of certain diseases, especially of the nervous system.

In music, famfest (fan'fest), n. [fan² + G. fest (as in schützenfest, etc.), festival.] A gathering of 'fans,' that is, 'base-ball enthusiasts. [Slang.]

There was a regular fanfest over the rumors of difficulties among the Giants. N. Y. Eve. Amer., July 27, 1904.

fan-flower (fan'flou'er), n. An Australian shrub, Lobelia cuneiformis, so called from the flattened. fan-like appearance of its flowers.

It it necessary to distinguish acute forms following exhaustion or infectious diseases in persons without hereditary or constitutional defect, the subscute and chronic forms or habit-neurasthenias frequently without heredity, and the chronic constitutional type, said to be to a large extent familial.

Apper Low Perchal July-Det 1993 p. 384

2. As in a family; family-like.

The essentially familial character which this people [the Chinese] has retained.

Tarde (trans.), Laws of Imitation, p. 252.

Tarde (trans.), Laws of Imitation, p. 252.

family. I. n., 6. In petrography the term is used by Rosenbusch to embrace igneous rocks which are alike in composition and texture: as, the family of syenitic rocks; the family of essexite; the family of phonolitic rocks. In the quantitative system of classification (1902) it is suggested that the term be applied to a group of igneous rocks which are developed from the same parent magma by processes of differentiation—that is, any group of consanguineous rocks—Man of family, a man of birth; a person of noble or gentle descent: to be distinguished from family man, a man with a family.—Monosyllabic family of languages, a group of languages so designated which is spoken in southreastern Asia, including as its principal members Chinese, Cochin-Chinese or Annamese, Siamese, and Burmese.

II. a.—Family arrangement, an agreement for the disposition of property between members of the same family, in which the relationship of the parties is a sufficient consideration for the agreement.

famin, n. A simplified spelling of famine. family. I. n., c. in he Rosenbusch to embrace and texture

famin, n. A simplified spelling of famine.

fan, n., 1. (a) The fan has been used by various peoples to guard sacred mysteries. In the older ritual of the Roman and Greek churches, a fan was carried by a deacon of the mass, at the gospel side of the altar.

of the mass, at the gospel side of the altar.

9. In projective geom., one of the flat pencils which are determined by the sides of a poly-Fan.—Electric fan or fan motor. See *motor.— Fan engine. See *engine.—Plenum fan, a fan which is used to force air into a room or hall, thus creating a current of air: the reverse of vacuum *fan.—Vacuum fan, a fan which is used to exhaust the air from a room or hall, thus producing a current of air: the reverse of plenum

fan1, v. I. trans. 6. To "cool with a club"; club, as policemen sometimes club refractory

prisoners. [Slang.]
II. intrans. 3. To strike at something (as a base-ball) without hitting it; fan the air. [Slang.]—To fan out. (b) to pass muster; come out of an examination, test, or contest successfully: probably from det. 4. (c) To strike out, as in base-ball. [Slang.] fan? (fan), n. [Said by some to be short for fanatic, but this implies a popular pronunciation fan attice. Others associate the word with fan1, which has various slang uses.] One jan, which has various mang uses.] One who phantom.

is very enthusiastic on the subject of athletic fan-work (fan'werk), n. Same as fan-tracery. sports, especially base-ball; one who haunts Par point. See *point!. base-ball grounds and base-ball games; a far (far), n. [L. far, spelt: see farina.] A type of spelt now out of notice.

Cranks and 'fans' of all degrees
Are there to howl and scream.

Kansas City Daily Times, April 23, 1903.

Cantercy fanam, a coin of southern India far. An abbreviation (a) of farriery; (b) of fanam. n. fanam, n.— Cancercy I anam, a considerable farthing.

fan-bath (fan'bath), n. A method of reducing the heat of fever in which rapid evaporation is produced by fanning the patient's wet

farthing.

farthing.

farthing.

farthing.

fartacurd (far'a-kerd), n. [A trade-name prob. in the heat of fever in which rapid evaporation is produced by fanning the patient's wet

A preparation of skim-milk in the form of a preparation of skim-milk in the form of

fanchonnette (fan-sho-net'), n. [F. dim. of Fanchon, a pet form of Françoise, Frances, a feminine name.] A small pastry covered with meringue.

fan-crest, n. 2. In ornith., a large longitudinal aradimeter (far-a-dim'e-ter), n. Same as crest which opens and closes somewhat like a fan. The crests of the hoopoe and cockatoo

The current is from a secondary coil of about 8000

are examples.

Fancy dress. See *dress.

fandangle (fan-dang'gl), n. [fan(dango) + dangle.] A fancy or fantastic trinket or ornament.

an-drill (fan'dril), n. Movements and evolutions performed in concert by a company of farad-meter (far'ad-me'ter), n. In elect., an girls or ladies armed with fans. instrument for determining, in farads, the

fan-duster (fan'dus"ter), n. In paper-making, a revolving wire-cloth cage inclosed in a casing, used to shake the dust out of stock.

ing, used to snake the dust out of stock.

Ranega (fä-nā'gä), n. [Sometimes faneague;

< Sp. fanega, hanega = Pg. Cat. fanega, < Ar.

faniqa, a large sack (Freytag).] 1. A Spanish and Spanish-American dry measure containing about 1½ United States bushels.—2.

A Spanish and Spanish-American land-measure statistics and spanish-American land-measure statistics.

An abbreviation (a) of familiar; (b) of fanfare, n. 3. In bookbinding, an erratic or eccentric style of decoration which purposely

flattened, fan-like appearance of its flowers.

See Scævola.
fan-forge (fan'fōrj), n. A forge in which centrifugal fan instead of a bellows furnishes farewel. A simplified spelling of farewell. the blast.

Amer. Jour. Psychol., July-Oct., 1903, p. 364. fang, v. t.—To fang a pump, to prime it. [Local, Eng.]

fang. n. 6. A valve in a pump; the water-seal of a pump.—To lose the fang, to break the seal or allow the water to run out of a pump, so that it will not draw without priming.

fang-bolt (fang 'bolt), n. A bolt used for attaching ironwork to wood. In some cases the head of such a bolt has fangs or teeth for biting into the timber, and in other cases the fangs are on washers.

fangle² (fang'gl), n. [Prob. orig. connected with fangle¹.] A large, irregular bundle of straw tied together at intervals, and serving

fango (fan'gō), n. [It. Sp. fango = Pr. OF. fanc, mud.] Mud in its therapeutic uses.

Measurements which were made of the ionising power and of the rate of decay of the emanation of "fango" or mud from the hot springs of Battaglia, would indicat that its activity is due solely to the presence of radium. Nature, Sept. 8, 1904, p. 458.

fanguito (fän-gē'tō), n. [Sp., dim. of fango, mud.] A killifish, Pæcilia rittata, found in fresh water in Cuba.

fanning (fan'ing), n. In machine-sewing, a variety of free embroidery stitching on ornamental fabrics used for decorative purposes.

Also called flossing.

Fan-shaped structure. See *structure.

Fantail axle. See *axle. fantaisie (fon-tā-zē'), n. [F.: see fantasy.] Same as spun silk (which see, under silk). fantasm, n. A simplified spelling of phan-

fantasmagoria, n. A simplified spelling of

phantasmagoria.

Pantasv pearl. See *pearl.

phantusmagoria.

Fantasy pearl. See *pearl.

fantigue (fan-tēg'), n. [Also fanteague, fanteag,
fanteeg, fantaig, fantag; prob. a dial. mixture
of fantastic and fatigue.] A state of worriment
or anxiety. [Prov. Eng.]

fantod (fan'tod), n. [Also fanted; origin
obscure. Cf. *fantigue.] The fidgets: as, to
give one the fantods. Mark Tvain. [Slang.]
fantom, n. and a. A simplified spelling of
nhantom.

phantom.

Triticum Zea, Far, is one of the class of spelt-wheats. It is distinguished by the distance of its spikelets from one another.

Low, Pract. Agr., p. 325.

dry powder: used by bakers and confectioners. Faraday effect. See *effect. Faraday's dark space or Faraday's space. See dark *space.—Faraday's electric bag, tubes. See *bag1,

The current is from a secondary coil of about 8000 turns of fine wire and the dose is carefully measured by my faradimeter which I exhibited before the British Electro-Therapeutic Society in 1902.

S. Sloan, in Lancet, May 30, 1903, p. 1519.

faradization, n.— Galvanic faradization, the stimulation of a nerve by combined galvanic and faradic currents.

instrument for determining, in farads, the electrostatic capacity of a condenser.

faradocutaneous (far'a-dō-kū-tā'nē-us), a. Relating to the skin and a faradic current.

— Faradocutaneous sensibility, sensibility of the skin to atimulation by a faradic current. Alien. and Neurol. Feb., 1903, p. 40.

faradometer (far-a-dom'e-ter), n. Same as **≠**farad-meter

Parang (fä'rang), n. [Hind. Pers. farang: see Frank¹, 2.] A Frank; a Feringhee or Eu-ropean; a non-Asiatic foreigner.

They [the Siamese of Lakawn] have seen less of the Farany than many of their countrymen in Upper Siam.

Geog. Jour. (R. G. S.), XI. 489.

avoids regular or geometrical design.

fanfest (fan'fest), n. [fan² + G. fest (as in schützenfest, etc.), festival.] A gathering of farcy-button (fär'si-but'n), n. A small tumor (enlarged lymphatic gland) occurring in a horse suffering from farcy. Also called farcy-bud.

farcy-pipe (fär'si-pip), n. A hard, cordy swelling of the subcutaneous lymphatics in farcy. fare¹, n.—Excess fare, on railways, steamboats, etc. the payment made by a passenger for traveling beyond the place specified on his ticket, or in a higher class than that for which the ticket was issued.

Farfugium (fär-fū'ji-um), n. [NL. (Lindley, 1857), < L. farfugium, the plant called colts-

farinatome (fa-rin'a-tōm), n. [L. farina, meal, + Gr. -τομος, ζτέμνειν, ταμεῖν, cut.] An

whether the seeds are horny or starchy.

farinha (fä-rēn'yā), n. [Pg.: see farina.] In Guiana and the West Indies, cassava meal.

farinivorous (far-i-niv'ō-rus), a. Feeding upon farinaceous products: said of a meal-worm or

Parm lateral. See *lateral.—Poor farm. See poorfarm.—Sewage-farm, a farm of a type found near many
British towns in which the public sewage is utilized for
irrigation. Such farms are devoted chiefly to market-gardening and to growing forage-crops. Muir, Agriculture,
124 note.

farmacy, n. A simplified spelling of phar-

farm-boiler (färm'boi'ler), n. A large portable furnace and boiler for cooking food for cattle, pigs, etc. The boiler is usually so arranged that it can be tipped up and its contents discharged without disturbing the fire or furnace. Also called feed-boiler.

See

Delium.—Trinsural fasciculus. See */ascice.

Fascigeridæ* (fas-i-jer'i-dē), n. pl. [NL., < Fascigeridæ* (fas-i-jer'i-dē), h. pl. [NL., < Fascigeridæ* (fas-i-jer'i-dē), n. pigs, etc. The boller is usually so arranged that it can be tipped up and its contents discharged without disturbing the fire or furnace. Also called feed-boiler.

Farmers' Alliance, institute, itch. See

*alliance, etc.

farmer's-ruin (fär'merz-rö'in), n. sperry, Spergula arvensis: so called from its peffect on crops.

Farmer's theorem. See *theorem.

farming, n. 4. The commercial production of any plant (even horticultural) or animal which has an economic value: as, fruit-farming, perhas an economic value: as, fruit-farming, perfumery-farming (growing flowers for extraction of perfumery-oils), ostrich-farming (for feathers), cat-farming (for fur), etc.—All-grain farming. See grain-*\text{\t fumery-farming (growing flowers for extracproduction of cereals. Exclusive grain-farming (sometimes called all-grain farming) impoverishes the soil, because no return is made for the plant-food taken away.—Grassfarming, that system of farming (usually of the "low" type) which rests upon the production of grass for pasture or hay. F. Storer, Agriculture, III. 326.—Intensive farming, that method of husbandry in which, by liberal application of labor and expense, the maximum returns are obtained from small areas. Such a method is profitable in situations where land is valuable on account either of fertility and dense population or of adaptation to a special crop: opposed to *extensive agriculture. Also called high farming.—High farming, same as intensive *farming.—Stock-farming, truck-farming. See *stock-farming, *truck-farming.*

farming-shelter (fär ming-shel ter), n. A shed or wind-break intended to shelter cultivators at work upon their fields: used especially in connection with the Red Indians of North

America.

farolito (fa-rō-lē'tō). n. [Sp. farolito, dim. of farol, lantern.] In Porto Rico the balloon-vine, Cardiospermum Halicacabum, so called farolito (fä-rō-lē'tō), n. from the fancied resembance of its inflated

fruit to a miniature paper lantern.

farouche (fä-rösh'), a. [F.; origin obscure.]

Distant or repellent in manner; unsociable;

shy. Mrs. Gaskell.

shy. Mrs. Gaskell.

Farrie's line. See *line!.

Farrington group, series. See *group!, *series.

farrisite (far'i-sit), n. [Farris, a lake in Norway, + -ite².] In petrog., a name given by Brögger (1898) to a compact chocolate-brown rock composed of 35 per cent. of a melilite-like mineral, 33 per cent. of barkevikite, 25 per cent. of diopside, and a little lepidomelane, altered olivin, and iron oxid. It occurs in a

narrow dike cutting augite-syenite.

farsang (fär'sang), n. [Pers.: see parasang.]

A Persian itinerary measure equal to about

four miles.

farynx, n. A simplified spelling of pharynx.

F. A. S. An abbreviation (a) of Fellow of the
Antiquarian Society; (b) of Fellow of the Society of Arts; (c) of free alongside ship.

fasc. An abbreviation of fasciculus.

foot, Tussilago Farfara.] An untenable name fascis, n.—Dentate fascis, a strip of gray matter befor Erythrochæte, agenus of plants of the family Asteraceæ. See *Erythrochæte.

farinatome (fa-rin'a-tōm), n. [L. farina, meal, + Gr. -τομος, (τέμνειν, ταμεῖν, cut.] An apparatus used in the study of seeds to make cross-sections of many grains (of cereals) at once. The object in cutting is to determine whether the seeds are horny or starchy.

Facia fascis, n.—Dentate fascia, a strip of gray matter benefit fascia, principle fascia por pria, a layer of tissue covering the neck of a femoral herria, derived from the cribritorm fascia or from the temoral sheath—Fascia recta, the sheath of a rectus abdominia—Fascia semilunaris. See semilunar fascia.—Fascia superficialis. See superficial fascia, under fascia, 7.—Tenon's fascia to determine whether the seeds are horny or starchy.

or transverse bands of color. [Rare.]

or transverse bands of color. [Rare.] fascicle, n.—Trinsural fascicle or fasciculus, a small collection of nerve-fibers in the upper part of the spinal cord connecting the glossopharyngeal and vagus nerves. Fasciculated bladder. See *bladder. fasciculated bladder. See *bladder. fasciculated bladder. Fasciculated bladder, see *bladder. fasciculated bladder. Fasciculated for fasciculated fascic

fasciotomy (fas-i-ot'o-mi), n. [L. fascia, band, + Gr. -τομια, ⟨ταμεῖν, cut.] In surgoperation for the division of a fascia. In surg.,

Fascipora (fa-sip'ō-rā), n. [NL., \langle L. fascis, a bundle, + Gr. $\pi o por$, a pore.] The typical genus of the Fasciporidæ.

Fasciporidæ (fas-i-por'i-dē), n. pl. [NL., < Fascipora + -idæ.] A family of cyclostomatous Bryozoa of the Cretaceous formation,

tous Bryozoa of the Cretaceous formation, growing in clustered zocecia opening radially and without accessory pores.

fase, n. A simplified spelling of phase¹.

F. A. S. E. An abbreviation of Fellow of the Antiquarian Society of Edinburgh.

fashion-art (fash'on-ārt), n. The art which follows new or exotic models, in distinction from custom-art, which follows the traditional models of the riphe continuation. models of clan, tribe, or nation. Tarde (trans.),

Laws of Imitation, p. 357.

fashion-imitation (fash'on-im-i-tā'shon), n.

The imitation of new examples or models, especially of those of foreign origin, in distinction from custom-imitation, which consists fat1 in following the traditional usages of family, clan, or nation.

fashion-morality (fash'on-mō-ral'i-ti), n. fat-fa Morality built up from new or exotic ideas and heave examples, in distinction from custom-morality, fath, the traditional morality of family, clan, or fathe

Hence the individualistic character of fashion-morality, analogous to that of fashion-art.

Tarde (trans.), Laws of Imitation, p. 357.

An abbreviation of Fellow of the

Anthropological Society of London.

Fassanian (fa-sā'ni-an), a. [It. Fassa, a district in Tyrol, giving name to the Fassa valley and the Fassanian Alps.] In geol., noting a group of strata which constitutes the lowest member of the Upper Trias in the Mediter-

ranean province. fast¹. I. a. 8. Favorable to high speed: said of the condition of a race-track or road, and also, in *cricket*, of the wicket or playing-ground when it is hard and dry, so that the ball travels when it is hard and dry, so that the ball travels fast.—Fast acid-blue, acid-magenta, acid-ponceau, acid-red, acid-violet. See *acid-blue, etc.—Fast acid-fuchsin. Same as fast *acid-magenta.—Fast acid-scarlet. Same as *acid-ponceau.—Fast black, Bordeaux, marine blue, etc. See *black, etc.—New fast green. See *green.

II. n. 4. In arch., a fastening, usually a simple button or bolt to keep a door or window shut: often used in combination, as door-fast, whatter, fast at

shutter-fast, etc.

shutter-fast, etc.

fasts, n.— Jewish fasts. The principal Jewish fastdays are those mentioned in the Bible. The most solemn
fast is the Great Day of Atonement or Fast of Expiation,
on the tenth day of the month Tishri (which see) prescribed by Moses. It is a holy day, "the Sabbath of Sabbaths." Next in order are: (a) The fast of the fourth
month, on the seventeenth day of Tammuz, which is the
fourth month of the Jewish ecclesiastical year; on that
day, the rabbis declare, Moses destroyed the tablets; on
the same day the daily sacrifices ceased, and Apostemus
burned the law and placed an idol in the sanctuary. (b)
The fast of the fifth month, on the ninth day of Ab, the
fifth month of the Jewish ecclesiastical year; on that day,
the Talmud relates, it was decreed that the children of
tarael should not enter the Promised Land: the destruction of the first and second temples occurred on the same
day. (c) The fast of the tenth month, on the tenth day of

Tathah

Tebeth, the reason for this fast being the siege of Jerusalem by Nebuchadnezzar. (d) The fast of Esther, on the thirteenth day of the month Adax, which is the eve of Purim (which see). Besides the above there are numerous other fasts, general, local, and private. For instance, in some localities the Jews fast on the twentieth day of Sivan (about the middle of June), on account of the calamities inflicted upon them in 1648 by the Cossacks under Chmielnicki. The Jews of Frankfort-on-the-Main fast on the nineteenth day of Adar, on account of the atroctites committed upon them at the time of their expulsion from that place in 1614. The orthodox Jews observe no less than twenty-five regular fast-days, besides a score or so of other self-imposed and private fasts, including Jahrzeit, a fast on the anniversary of the death of parents, and the fast of bad dreams, which takes place in order that God may be invoked to ward off the threatening evil. The very plous Jews fast every Friday, so that they may better enjoy the Sabbath feast in the evening, which is considered a meritorious meal. ered a meritorious meal.

fast-fur (fast'fur), a. In Newfoundland, noting the young of the harp-seal when in such condition that the coat of soft, woolly fur in which it is clothed when born does not readily pull out. This coat is shed when the seals are a few weeks old, leaving them clad in the short, close hair common among hair-seals.

fastidium (fas-tid'i-um), n. [L.: see fastidi-

ous.] Slight nausea with repugnance to food.

fastigiation (fas-tij-i-ā'shon), n. [fastigiate + -in.] The condition of being, or tendency

to be, fastigiate; applied to trees.

fastigium, n. 4. A period of continuous fever
in an acute disease, when the temperature has ceased to ascend but has not yet begun to fall. -5. A projection in the roof of the fourth ventricle of the brain.

fat1. I. a. 9. In painting, rich; full of color. Put in with an infinity of small 'fat' touches, the effect being completed by sharp flashes of white and vermilion. C. J. Holmes, in Burlington Mag., I. 83.

C. J. Holmes, in Burlington Mag., I. 83.

Fat acid. Same as sebacic acid, (CH₂)₈(CO₂H)₂. Also called ipomic acid.

II. n. 4. A local Australian term for fat or marketable cattle.—Bayberry fat. Same as bay-oil.—Beouiba fat. Same as becuba-tailow (which see, under tailow).—Pat embolism. See *kembolism.—Natural fats, solid substances of a fatty nature obtained from animal or vegetable sources.—Niin fat, a fat-like or waxy substance produced by the insect Coccus adipifera.—Otoba fat. Same as otoba-butter.—Pichurimbean fat. See *keanl.—Pichurim fat. Same as Pichurim *keamphor.—Vateria fat, solid fat from the seeds of Vateria Indica. Also known as piny tailow or Malabar tailow. T. E. Thorpe, Dict. Applied Chem., III. 987.—Wakefield fat. Same as Yorkshire *grease. fat¹, v. t. 2. In leather-manuf., to smear over with a heavy oil. Flemming, Practical Tanning, p. 166. A local Australian term for fat ning, p. 166.

All resemblances of social origin in society are the direct fat-body (fat'bod'i), n. One of the masses or indirect fruit of the various forms of imitation, custom-imitation or fashion-imitation, etc.

Tards (trans.), Laws of Imitation, p. 14. and other low forms.

fat-face (fat'fās), n. In printing, same as heavy *face.
fath. An abbreviation of fathom.

father, n.—Father of lies, Satan.—Father of the Fathful. (a) Abraham. (b) The Sultan of Turkey.—Father Time, time personified as an old man. See time!, I.

father-right (fä'ffher-rit), n. Supremacy of the father in the family that traces descent in the male line: distinguished from supremacy of the uncles or brothers of a wife and mother in the family that traces descent in the female line. It is a broader and less technical term

line. It is a broader and less technical term than the Latin patria potestas. L. Gumplowicz (trans.), Outlines of Sociol., p. 53.

father-rule (fä'wher-röl), n. Supreme authority of the father in the family. In the evolution of the family, father-rule has generally appeared later than the so-called mother-rule, which was in reality the authority of the male relatives of the mother. L. Gumplowicz (trans.), Outlines of Sociol., p. 112.

fathom, n.—Nautical fathom, in the United Kingdom, the fathom used for the measurement of cables, which is one thousandth part of a nautical mile, or about 1½ per cent. longer than the ordinary fathom of six feet.

fatiguability (fā-tēg'a-bil-i-ti), n. Inability to resist fatigue; lack of staying power.

fatigue. n.—Coemicient of fatigue, in phys., a nu-

to resist fatigue; lack of staying power.

fatigue, n.—Coefficient of fatigue, in phys., a numerical constant denoting the extent to which a given substance exhibits the phenomenon of elastic fatigue.

Curve of fatigue. See *curve.—Elastic fatigue. See *after-strain.—Error of fatigue. See *error.—Fatigue fever, an elevation of temperature observed after an unusual amount of muscular exertion: caused by the presence in the system of toxic matters resulting from the disintegration of tissue.—Magnetic fatigue, the loss of permeability with age exhibited by some specimens of iron and steel.

fatihah (fä'ti-hä), n. [Ar. fātiha, fātha, opening, beginning, 'fataha, he opened.] The first chapter (sura) of the Koran. It consists of seven verses (lines), and contains a doxology ('Te Deum laudamus') and a prayer. It is greatly reverenced by Mohammedans, who use it much as Roman Catholics use the paternoster.

"Gabriel! why stay'st thou me?" the Prophet said,
"Since at this hour the Fatihah should be read."

Edwin Arnold, Pearls of the Faith, Ali and the Jew, st. 4.



fat-liquor (fat'lik'or), n. A mixture of oils and alkali for oiling hides or skins to make them soft. Flemming, Practical Tanning, p. 127. fat-liquor (fat'lik'or), v. t. To anoint or coat with fat-liquor. Flemming, Practical

Tanning, p. 22. fat-necrosis (fat'nek-rō'sis), n. A degenera-

fat-necrosis (fat'nek-ro'sis), n. A degenerative alteration of fatty tissue, shown by the presence of firm opaque white areas.

fat-pork (fat'pork), n. [From the appearance of the pulp of the fruit.] The edible fruit of the monkey-apple, Clusia flava, or the tree tiself. [West Indies.]

fatten, v. t. 3. In poker, to add chips to (a jack-pot which was not opened on the previous deal).—4. In skat, to discard valuable cards on (a partner's tricks)

A degenerative so that a fault-scarp is rarely well preserved. Chamberlin and Salisbury, Geol., 1. 491.

fault-vein (fâlt'van), n. A mineral vein deposited in a fault-fissure.

fault-vein (fâlt'vent), n. In geol., a volcanic vein located on a fault.

During the geological periods when the fault-ment continued intermittently active, the form of the sill-complex was capable of being re-moulded periodically in harmony with the localised crust-atreeses.

Nature, Sept. 3, 1903, p. 413.

Nature, Sept. 3, 1903, p. 413.

Nature, Sept. 3, 1903, p. 413.

An abbreviation of Fellow of the fattend, pp. A simplified spelling of fattened.

Sattree (fat'tre), n. In phytogeog., one of a class of trees of temperate zones, consisting chiefly of soft-wooded species such as conifers, birches, and lime-trees, in which, at the beginning of winter, all the starch of the cortex and wood is converted into fat, to be reconverted into starch in the spring. Compare **starch*

Nature, Sept. 3, 1903, p. 413.

Fulloma-Niobe fauna, an assemblage of extinct organisms, characterized by the trilobites Euloma and Niobe, at the base of the Lower Silurian system which extends from Swedish Lapland to Languedoc in France. It bears a transitional character between the Cambrian and Society.

Fullow of the British Ornithologists' Union.

Fullow of the British wood is converted into fat, to be reconverted into starch in the spring. Compare *starch-tree. A. F. W. Schimper (trans.), Plant-Geog., p. 436.

p. 4.30.

Fatty casts. See *cast1.—Fatty oils. See oil, 1.—
Fatty series, the class of carbon compounds which have a chain-like structure, as distinguished from those which have a cyclic structure. Also called aliphatic series.—
Fatty tumor. See *tumor.

fau (fou), n. [Samoan, Marquesan, etc., fau.]

1. A name in Polynesia of several nettle-like fauna; fauna.] A little fauna; a subdivision of fauna, fauna.] A little fauna; a subdivision of subordinate association of the species of a subordinate association of the species of subordinate association.

lants which yield fiber used in making fishingplants which yield noer used in maning lines and nets: as, fau-songā, Pipturus argenteus (Samoa).—2. A Polynesian name for Pariti tiliaceum, a tree belonging to the mallow family, with tough bark yielding cordage and very light wood used by the natives for making outriggers of canoes and for kindling fire by friction. Also hau. See *balibago, corkwood,

fauces, n. pl. 5. In ancient Roman building, a passage in a house, especially that leading from the first vestibule to the atrium or first It is disputed whether the term is ever used for inner passages. Vitruvius (trans.), Architecture, vi. 4.

faucet, n.—Rabbit—ar faucet, a compression-faucet in which the valve is closed by pressing together two upright blades or ears. faucet-filter (få'set-fil'ter), n. Same as filter-

fauct.

fault, n.—Bedding fault, in geol., a fault whose plane of displacement coincides with the bedding-planes of the strata.—Dip-fault, a fault which crosses the strike of the faulted strata: the opposite of strike-fault.—Distributive fault, a fault in which the displacement is not confined to a single plane, but is distributed among a series of parallel planes at short distances from one another. Chamberlin and Salisbury, Geol., I. 494.—Gravity fault, an inclined fault the upper side of which has slipped down on the under side, because, being the portion with the smaller base and therefore with the less support, gravity is conceived to have pulled it down, when, under tension, the strata drew apart; a normal fault. Geikie, Text-book of Geol., p. 702.—Normal fault. Seme as gravity **pault.* The great majority of faults in nature are normal faulta.—Overthrust fault. See recers fault.—Rhine-Ticino fault, a great line of disturbance of strata, antedating the Triassic period and separating the Eastern from the Western Alpa. The line extends from the upper Rhine valley, on the northeast, to the valley of the Ticino, on the southwest. faultage (fâlt 'āj), n. [fault + -age.] In geol., faults collectively considered.

My geological surveys go to prove that all that portion

My geological surveys go to prove that all that portion of Iceland has subsided, there being well-marked lines of faultage going down to the bases of the mountains.

Geog. Jour. (R. G. S.), XIII. 272.

fault-breccia (fâlt'brech'iš), n. A breccia formed by the crushing of rock along a fault. Sometimes called fault-conglomerate. fault-bundle (fâlt'bun'dl), n. In geol., a group of faults.

Varied arrangements in fault-bundles and fault-polyons.

Geog. Jour. (R. G. S.), XVI. 464.

fault-conglomerate (fâlt'kon-glom'e-rāt), n. Same as *fault-breccia.

The fissure fawn², n. forms.

fault-fissure (fâlt'fish'ūr), n. The fissure

produced by a fault, even though it is afterward filled by a deposit of minerels. Veins in
fault-fissures are especially valued by nihers because they
are generally believed to be persistent to relatively great
depths. Geikic, Text-book of Geol. (4th ed.), p. 372.

faulting a. Plate for the consequence results in the Consequence of

fault-fissure (fân'kul'ord), a. Of a light yellowish-brown color.

faunt-filly (fân-lil'), n. A dog-tooth violet,

faunt-filly (fân-lil'), n. A dog-tooth violet,

faulting, n.—Block-faulting, a process resulting in a series of intersecting faults which serve to break up the surface of the earth into polygonal blocks, which are afterward modified by erosion. See fault-block.

fault-plane (fâlt'plān), n. The plane or approximate plane along which faulting has occurred.

curred. It is not, usually, a simple plane, but is rather a zone of some width throughout which there is shattering and movement.

Inclined fault-planes with downthrow towards one trough may be parallel with reverse fault-planes upon which a portion of an arch has moved backward over an adjacent trough.

Geog. Jour. (R. G. S.), XVI. 466.

adjacent trough. Geog. Jour. (R. G. S.), XVI. 466. fault-scarp (fâlt'skārp), n. The upthrow side of a fault left standing as a line of cliffs. The tendency of erosion is to destroy such inequalities, so that a fault-scarp is rarely well preserved. Chamberlin and Salisbury, Geol., I. 491. fault-vein (fâlt'vān), n. A mineral vein deposited in a fault-fissure

area).

Faunally the same species characterize the lower and upper members of the Portage.

Science, Feb. 5, 1904, p. 235.

the fauna; faunally.

faunule (fân'ūl), n. [NL., faunula, dim. of fauna, fauna.] A little fauna; a subdivision or subordinate association of the species of a fauna: used especially of local congeries of fossils in the successive beds of a given forma-

Favier powders. Same as Favier *cxplosives. faviform (fav'i-fôrm), n. [L. favus, honeycomb, + forma, form.] Resembling a honeycomb in appearance.

favord, a. A simplified spelling of favored. favored, a. 3. In organic chem., noting that configuration of the atoms or radicals in a compound in which the atoms which have an attraction for each other are brought as close together as possible. Thus of the two configurations for ethylene chlorid,

b is said to be a favored configuration because in it the chlorin and hydrogen atoms are nearer together than in a. favorit, n. and a. A simplified spelling of fa-

favoitoid (fav-ō-sī'toid), a. [Favosites + -oid.]
Pertaining to or having characters of the genus Favosites.

Tangential sections very near the surface of the recticulation show minute points projecting into the openings of the mesh suggesting the septa of a favoritoid coral or certain of the hydrocorailines.

Amer. Jour. Sci., Aug., 1904, p. 136.

favous (fā'vus), a. [NL. *favosus, < L. favus, honeycomb.] 1. Resembling a honeycomb.—
2. Of or relating to favus.

favrile (fav'ril), a. and n. [Formed (by L. C. Tiffany, the producer of the glass, in 1894), with a differentiation of form intended to make with a differentiation of form intended to make the word distinctive in trade, from the normal type *fabrile, < L. fabrilis, of or pertaining to an artisan, < faber, an artisan, a smith: see fabric.] I. a. Artistic in a distinctive and con-centrated way, namely, characterized by rich colors, enameling, and iridescence, with decorative effect: applied to glass so produced.

See the etymology.

II. n. A highly decorative colored, meled, and iridescent glass, usually in vase-

fawn-lily (fân-lil'i), n. A dog-tooth violet, Erythronium giganteum, of the Coast Range of California and Oregon. This and other western species are much finer plants than the eastern, E. Americanum. The name was proposed by John Burroughs and alludes to the two leaves, which resemble fawns' ears, and the lily-like flower. Also called (with other species) chamise-lily.

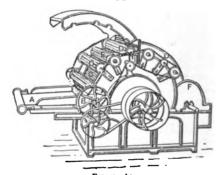
faxiness (fak'si-nes), n. [Dial. var. of foxiness².] In veg. pathol., a disease of flax, of

unknown origin, which turns the tops of the plants red and renders them unfit for retting. faya (fä'yä), n. [Chamorro name.] In the Marianne Islands, Tristiropsis obtusangula, a tree belonging to the Sapindaceæ, with bipinnate leaves having usually three pairs of pinnæ, each with 4 to 6 leaflets, and with ellipsical abstraction of the same of the s næ, each with 4 to 6 leaflets, and with ellipsoidal, obtusely 3-angled fruit covered on the surface with minute dust-like hairs, and containing a bony putamen. On the island of Guam the wood is used in the construction of small boats.

Fayal lace. See *lace.
fayberry (fā'ber'i), n. Same as feaberry.
F. B. An abbreviation (a) of Fenian Brotherhood; (b) of Free Baptist.
F. B. O. U. An abbreviation of Fellow of the British Ornithologists' Union.

F. B. S. An abbreviation of Fellow of the Brotherhood.

F. C. P. An abbreviation of return of the cor-lege of Preceptors.
fcp., fcap. Abbreviations of foolscap.
F. C. S. An abbreviation (a) of Fellow of the Cambridge Philosophical Society; (b) of Fellow of the Chemical Society (London); (c) [l. c.] in marine underwriting, of free of capture and



A, feed-table; B, feed-rollers; C, main cylinder; D, workers; E, strippers; F, doffer. (From Vickerman's "Woollen Spinning.")

or teeth, for teasing or opening wool preparatory to carding.

feasance (fé'sans), n. [Also fesaunce; < AF. fesance, fesaunce (F. faisance), < fesant, ppr. of faire, do: see fact. Cf. malfeasance, nonfeasance.] Performance; doing or performing an act or thing; the act or fact of omitting to

do or perform an act or thing.

Feast of ingathering. See Jewish *festivals.—Feast of lights. See *Hanukah.—Feast of Unleavened Bread, Feast of Weeks. See Jewish *festivals.—feast-rite (fest/rit), n. A rite relating to the

feast-rite (fēst'rīt), n. A rite relating to the celebration of a feast.
feather, n., 3. (b) In archery, a piece cut from one side of a feather, trimmed to the desired size and shape, and glued upon an arrow near the nock to improve its flight. Sometimes other material is used. Ordinarily an arrow has three feather set at equal distances on its circumference: see cocleather.—Balloon or parabolic feather, a feather trimmed to a round shape toward the nock of the arrow. feather, v. I. trans. 7. To drop (melted metallic tin) into cold water, which has the effect of spreading it out with a feathery appearance. pearance.

II. intrans. 4. To make a quivering move-

II. intrans. 4. To make a quivering movement of the tail: said of dogs.—To feather out, specifically, said of plants that throw out many adventitious shoots after they are pruned or headed back. feather-beds (fe\(\text{M}'\)er-bedz), n. A plant of the genus Chara, so called from the thick and soft mat which these plants form at the bottom of pools in which they grow. feather-board (fe\(\text{M}'\)er-bord), n. A board with a tapered section thinner at one side than at the other; a clapboard. [Great Britain.] Feathered antimony, tin. See *antimony, *tin.

Peather-edge machine, in shor-manuf., a hand-power machine for skiving off or cutting a feather-edge on the shanks of shoe-soles.

shanks of shoe-soles.

feather-fern (fewh'er-fern), n. An ornamental branching herb of the saxifrage family, Astilbe.

Japonica. See Spiræa, 2, (b), and *Astilbe.

feather-follicle (fewh'er-fol'i-kl), n. The little pit in which the base of a feather rests: formed by the sinking of the feather-papilla.

Featherfoot spider. See *spider. prifeather-germ (feTH'er-jerm), n. The papilla Po from which a feather is developed. In the fec. embryo it lies on the surface of the skin, but did in older birds at the base of each feather, Fec within the feather-follicle.

feather-grass, n. 3. See *chloris, 4.feather-grass, n. 3. See *chloris, 4.—4. One of several American species of Stipa, including the crested feather-grass, S. coronata, of Arizona and California, and the slender feather-grass, S. tenacissima, of Texas and New Mexico; also S. comata, one of the needle-grasses, and S. viridula, the featherbunch-grass.—5. A weed, Leptochloa mucronata, of cultivated grounds southward in the United States and in Mexico and Cuba. Its peniels is composed of meny lensels.

southward in the United States and in Mexico and Cuba. Its panicle is composed of many slender spreading branches. See slender-grass.—6. The velvet-grass, Holcus lanatus.

feathering, n. 6. In violin-playing, a very light and delicate use of the bow.—Double feathering, an arrangement of cups by which smaller ones are used to subdivide the curve inclosed by the larger ones. See cut under cup, Fig. 3.

feather-key (feTH'ér-kē), n. In mach., a key fastened to a wheel which slides along a shaft but also turns with the shaft, the key sliding along an axial groove, spline, or slot. The key may be on the shaft, and the groove or slot be cut in the wheel. cut in the wheel.

feather-papilla (fewh'er-pa-pil's), n. The minute conical elevation which marks the place of development of a feather. It subsequently sinks below the level of the skin and lies at the bottom of the feather-follicle.

feather-pulp (ferH'ér-pulp), n. The assemblage of cells by which a growing feather is nourished, forming a soft, pulpy mass within the base of a young feather.

feather-sedge (fewh'er-sej), n. A beard-grass, Andropogon saccharoides, so called from its plume-like pan-

piume-like panicle. It occupies 'sedge-grass prairies' inland in the southwestern United States and serves the purpose of grazing. Sometimes called cotton-crass.

feather - stitch (feTH'er-stich), v. t. To ornament with feather-stitching. feather-stroke (feФH'er-strök), n. In Eng. billiards, a deli-cate touch by which the cueball is pushed from balk past the first objectball and into

only slightly.
Also called (From U. S. D. A.)



pocket, moving Feather sedge (Andropogon sacchar the object-ball a, plant, one fourth natural size

quill-stroke. It has long been abolished among experts. W. Broadfoot, Billiards, p. 370.

Feather-tongue spline. See *spline. feather-tract (fēŦH'er-trakt), n. Same as

pteryla. feather-tree (fewh'er-tre), n. 1. The smoke-tree, Cotinus Cotinus.—2. The valley-mahogany, Cercocarpus parvifolius: so called in California on account of the feathery styles of the fruit.

feather-wedge (feTH'er-wej), n. fox-wedge.

feather-weed (fewh'er-wed), n. 1. One of the red algoe of the genus Ptilota.—2. The common everlasting, Gnaphalium obtusifolium.

feature, v. t. 2. To make a feature or special attraction of; display or mention prominently; give prominence to: as, A B is featured at the Academy as Othello. [Chiefly in newspaper and theatrical use.]

feazings, n. See *feezings.
febricity (fe-bris'i-ti), n. [Erroneously formed
(as if from a L. adj. *febricus) from L. febriciture, have a fever, \(febris, \) a fever: see fever.]
A state of fever or feverishness. Browning.

Februian, a. II. n. One who holds the Februian doctrine, which maintains the

primacy of the body of the episcopate over the Pope.

An abbreviation of the Latin fecit, (he) did it or made it.

did it or made it.

Fechnerian (fech-ne ri-an), a. Relating to G. T. Fechner (1801-87), a German psychophysicist: as, Fechnerian psychophysics, the Fechnerian method of average error.

Fechner's cloud, paradoxical, shadow experiment. See *experiment.—Fechner's colors, formulas. See *color, *formulas.

fecht (fecht), v. and n. The Scotch form of

federal, a.—Federal architecture, in the United States, the architecture of the time since the adoption of the Constitution, as distinguished from that of the period before, which is often called colonial or old colonial.—Federal forest. See national *forest.
federalistic (fed'e-ral-ist'ik), a. 1. Pertaining to federalism.—2. [cap.] Pertaining to the Federalist party in the United States. federate, v. II. intrans. To unite in forming a league or federation.

Always as the Federative work over the period of the content of the

a league or reueration.

Always as the Federative work goes on, it perfects itself, and Patriot genius adds contribution after contribution. Thus, at Lyons, . . . we behold as many as fifty or some say sixty thousand, met to federate; and a multitude looking on, which it would be difficult to number.

Cartyle, French Rev., II. i. 8.

Cartyle, French Rev., II. 1. 8.
Federation of labor, a national or other inclusive organization of trade-unions or other organizations of wage-earners; especially in the United States, the American Federation of Labor.

The Federation of Labour goes more wisely to work, dealing with particular grievances of particular trades, and pressing for redress of flagrant grievances. Appeal is made to the State mainly when the Federation has failed; action through the State is the second resource, not the first.

Encya. Brit., XXXXII. 671.

Social Democratic Federation, an important socialist society founded in London, in 1881, by H. M. Hyndman, William Morris, and other socialistic reformers, under the name of the 'Social Federation.' Two years later the present name was adopted. It is the largest of the socialist societies in the United Kingdom. Its theories and its teachings are largely those of Karl Marx.

federico (fe-dā-rē'kō), n. [Spanish name.]

See *fadang.

foderovite (fed'e-rō-vīt), n. [Named for E. Federov, a Russian mineralogist.] A variety of pyroxene related to ægirite.

feel, n. 6t. In hunting, certain portions of the dead animal which were distributed among the huntsmen according to definite regulations.

regulations.

fee2, n.—Fee and life-rent, in Scots law, two estates in land, the former importing absolute ownership and the latter a life-estate. The two estates might ocarist in different persons at the same time, and from the loose way in which the expressions were used by conveyancers, difficulties of construction arose, and the term life-rent came often to import a fee: for example, an estate to husband and wife in conjunct fee and liferent and children of the marriage in fee" meant that the surviving husband or wife took the fee; and following this construction, an estate to a father in life-rent and to his heirs in fee gave the fee to the father. A cordingly, it came to be held that the technical meaning of life-rent was fee in all cases where the expression would, in its ordinary meaning, indicate that the general was fee in all cases where the expression would, in its ordinary meaning, indicate that the fee was left over to those who would naturally take it by inheritance. This construction yielded to the ordinary meaning of the expression when accompanied by words or conditions clearly indicating such intent.

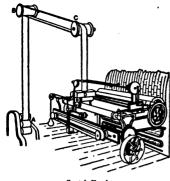
feed, v. t. 6. In founding, to supply extra metal to (a thick, heavy casting) while it is setting. This is done by having a shrink-head or riser over the thick portion of the casting and keeping communication open between this and the metal in the mold by working a feeding-rod up and down until the metal sets. The object of doing this is to prevent the formation of shrinkage-holes in the casting by the contraction of the metal as it cools, this process beginning from outside and leaving interior holes unless the latter are filled.

feed, n.—Blamire's feed, a lattice-apron device for auto-

outside and leaving interior holes unless the latter are filled.

flood, n.—Blamire's feed, a lattice apron device for automatically conveying cotton, wool, and like fibers from one carding-machine to another, the fibers being delivered at right angles to the direction in which they are received.

—Continuous feed. See intermittent *feed.—Cut feed, in stock-raising, animal food or fodder, particularly hay, which has been cut into small pieces by running it through a cutter.—Intermittent feed, the feed given to a tool, or te the work, by means of a pawl and ratchet or a similar device: distinguished from the continuous feed obtained by the use of a constantly rotating screw.—Plano feed, a form of feeding-device, arranged in sections resembling plano-keys, for equably delivering cotton into a scutching machine. Nasmith, Cotton Spinning, p. 80.—Rough feed. See *roughage, 2.—Scotch feed, a self-acting feed used in wool-carding for reducing the carded wool into a flat ribbon about five inches wide and half an inch thick, and delivering it to a succeeding carding-machine.—Stient feed, a mechanism for moving a tool to the work or the work to a tool, in any machine-tool or woodworking machine in which the intermittent effect of a ratchet and dog is replaced by a friction apparatus, so that there is no audible click when the feed-motion acts. The most usual forms embody the idea of a cam or toggle, which slips when pulled in one direction, but which nips upon a suitable surface when motion occurs in the opposite direction, and in this second position drives the feed-gear.—Starfeed, a device for feeding a tool to its work by means of a screw on a lathe-carriage or boring-bar. As the work or



A, calender or drawing-rolls; B, C, carrying-pulleys for the ribbon-sliver; D, carrier for spreading the sliver; E, feed-apron. (From Vickerman's "Woollen Spinning.")

the bar revolves, a projecting arm of a rimless wheel on the end of the screw strikes an adjusted pin, which com-pels a partial revolution of the wheel and feed-screw. The projecting arms are of such a shape as to suggest a star of four, five, six, or more points.

feed-bag (fed bag), n. Same as nose-bag (which

feed-bed (fēd'bed), n. 1. A place where animals feed.—2. A level surface forming a table

feed-board (fēd'bord), n. The table attached to a printing or folding-machine which upholds the pile of paper that is fed into the machine sheet by sheet. See laying-on *table. feed-boiler (fēd'boi'ler), n. Same as *farm-boiler

feed-box (fed'boks), n. 1. A box which contains a set of feed-gears or other apparatus for

feeding a machine.—2. A box in which oats or other feed for horses or cattle is kept.

feed-cloth (fēd'klôth), n. Same as *feed-sheet.
feed-cock (fēd'kok), n. The valve or cock by which the supply of feed-water for a boiler is controlled. controlled.

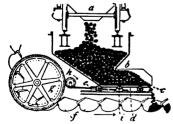
feed-cone (fed'kon), n. A cone-pulley, or a cone of gears, used to change the rate of feed on a machine, in order to adjust it to the cutting speed which is best for the material or for the tool.

plant, or coke-oven, at the top.

feed-engine (fēd'en'jin), n. A feed-pump.
feeder, n., G. (d) (2) A part of a machine, such as a
finger or arm, for pushing along the material to be operated upon. (p) (2) In elect, a conductor which leads
from the generating-station to a point in the distributionsystem, for the supply of electric current. In low-pressure electric distribution-systems, in which an appreciable
loss of pressure occurs between generator and consumer,
a system of mains is provided, from which the current is
supplied to customers, and a system of feeders which
supply the mains from the generating-station at so many
points that no appreciable variation of pressure occurs in
the mains, but all the loss of pressure is in the feeders.

(h) A can, pall, or other vessel fitted with a rubber nipple,
used in feeding milk to young calves; a calf-feeder.

(i) In milling, a box divided into a number of compartments,



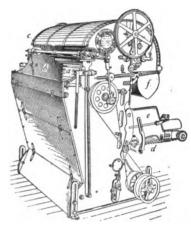
Automatic Coal-feeder.

a, hopper-car on rallroad-track discharging coal to feeder; a, hopper of feeder; c, delivery: d. reciprocating gate: e, short track on which gate travels; f, bucket-conveyer traveling on tracked on which gate travels; f, bucket-conveyer traveling on tracked on shown); g, wheel operating and guiding conveyer, also greated to control small gear; h, small gear that by its rotation causes gate (through the crank and connecting-rod) alternately to open and close; i, screw for adjusting movement of gate to deliver exact load to each bucket. Arrows show direction of travel of conveyer and rotation of gear.

each provided with an adjustable gate. It is used and combined with blending-machines for distributing the different flours or meals in exact proportions and at the same speed to the blender. It is sometimes united with a dividing- and distributing-machine for the purpose of feeding several bolting-machines or other machines, and is then called a divider and feeder. (j) In transportation, any automatic machine which feeds or supplies loose material in bulk to a conveyer or elevator. It may feed the load to a belt conveyer in a continuous stream, or intermittently to a bucket conveyer, filling one bucket at a time; it may form the delivery end of a conveyer, supplying coal to crusher-rolls or to another conveyer, it is made in many forms. See cut on previous page.

9. The player who tosses the ball to the batsman (in rounders and similar games); hence,

man (in rounders and similar games); hence, the name of a particular game resembling rounders. N. E. D.—Automatic feeder, a mechanical device used in mining, to secure a uniform and definite supply of ore for treatment.—Bramwell feeder, in tex-



Bramwell Feeder.

a, elevating toothed apron; b, box or case; c, oscillating comb; d, feed-lattice; e, feed-table; f, weighing-scale.

tile, manuf., a mechanical device for feeding automatically raw material, as wool or cotton, to a machine: invented by W. C. Bramwell in 1876.

by w. C. Bramwell in 1876. [Feeder-bar (fö'dèr-bär), n. An oscillating bar, in a cotton-machine, by which the supply of cotton to the machine is controlled. Also called feeler-bar. Taggart, Cotton Spinning, TT 21.

feeder-head (fē'der-hed), n. Same as feed-

feed-gage (fēd'gāj), n. A small guide-post, attached to a printing- or folding-machine, against which the feeder of the sheets places each sheet of paper. for the purpose of securing uniform and exact margins: oftener called,

in printing, the feed-guide.

feed-gate (fed'gat), n. 1. The gate or opening through which material is fed to a machine, as that which admits water to a turbine.

The opening into a mold, through which the molten metal is poured.

feed-gear (fēd'gēr), n. The mechanism by which either the material operated upon or the tool is feed forward.

feed-grinder (fed'grin'der), n. A power grinding-mill for reducing corn, wheat, oats, etc., to coarse meal suitable for feeding to cattle. It uses steel burs in place of stones, and is often fitted with an automatic feeding-device and elevator for lifting the grain to a sack-filler.

with an automatic feeding-device and elevator for lifting the grain to a sack-filler.

feed-guide (fed'gid), n. See *feed-gage.
feed-hopper (fed'hop'er), n. A hopper into which material is poured at intervals and from which it is regularly fed to a machine.

from which it is regularly fed to a machine. feeding, n.—Feeding standard, in stock-raising, the experimentally established amounts of the different nutritive substances required by animals under specified conditions. Feeding standards widely adopted give the amounts required per day (per 1,000 pounds of live weight) of protein, carbohydrates, and fat, together with the fuel-value of the ration, for oxen at rest, at work, etc.—Forced feeding, the introduction of food into the stomach through a tube in cases of attempted suicide by starvation.

feeding-cake (fe'ding-kak), n. The solid cake left from the expression of colza, cotton-seed, and other oils, used as food for cattle. Groves and Thorp, Chem. Technol., II. 26.

feeding-dish (fē'ding-dish), n. A circular plate or dish which forms the feeding-mechanism of the Hübner continuous cotton-combing ma-

feeding-groove (fe'ding-grov), n. A longitudinal groove on the ligula of a honey-bee worker

by the use of which one bee feeds another.

feeding-machine (fē'ding-ma-shēn'), n. An
apparatus attached to a printing- or foldingmachine, for the automatic delivery of single
sheets to the machine.

A wrought-iron rod about 1 to 1 of an inch in diameter, used by foundrymen to feed heavy castings, by keep-ing open a passage for fluid metal during the

feeding-stuff (fe'ding-stuf), n. The kinds of food for cattle. [Local Eng.] The various

This great change in country dairying . . has necessitated the extensive purchase of feeding-stuffs for the production of milk, especially in winter time.

Broyc. Brit., XXVII. 363.

feed-pawl (fēd'pâl), n. A pawl or finger which imparts motion to a ratchet-wheel to feed a

former case it means likeness of the feed as a machine, or which receives such motion from the feeding-mechanism.

feed-peg (fed'peg), n. A device, connected with a star-wheel, which gives an intermittent rotary motion to one of the feed-rolls of a Heilron entropy machine, for projecting machine, for projecting the feeding-mer especially, simple affection, as recovery more especially.

mann cotton-combing machine, for projecting the cotton forward through nippers. Thornley, Cotton Combing Machines, p. 39.

feed-regulator (fed'reg"ū-lā-tor), n. A device for regulating the amount of feed-water to be supplied to a steam-boiler. Such a device is particularly necessary on coil, water-tube, or flash boilers on account of the small reserve-supply of water they contain.

feed-rod (fed'rod), n. 1. A rod or shaft which actuates a feed-motion.—2. Same as *feeding-

such as kerosene or gasolene, which is to be fed to a burner.—3. A reservoir or tank containing reagents, or raw materials, which are to be fed to a vessel in which some chemical or

manufacturing process is conducted.

[sed-trough, n. 2. A long, narrow trough, about
18 inches wide, 4 inches deep, and 1,500 feet long,
placed between the rails of a railway-track and partly filled with water. A scoop suspended from the tender of the locomotive of a moving train and dip-ping into the trough causes the water to rise along the slope of the scoop and pass into the water-tank of the ten-

sed-wheel (fed'hwel), n. A hand-wheel for operating the feeding-mechanism of a machine. eed-wire (fēd'wīr), n. Same as feeder, 6 (g). feel¹, v. t.—To feel the blade, in fencing, to be aware of the otherwise imperceptible preparations of the opponent for attack through the contact between the folia

n. 6. A thickness-gage.—7. A thin of metal for determining the space or lay left in a bearing or for determining the distance between the two plates in a riveted

eeler-bar (fē'ler-bar), n. Same as *feeder-bar. feeler-bar (fē'ler-bār), n. Same as *feeder-bar. feeling, n.—Common feeling. See *common.—Discordant feeling, in Wundt's psychology, a total feeling, derived from the oscillatory feeling, in which the affective oscillations follow each other very quickly, and the successive feelings themselves are strongly opposed: instances are tickling, doubt, the feeling of tonal dissonance, etc.—Extensive feeling, in psychol., a feeling which arises from the spatial and temporal arrangement of the sense-elements of a perception or idea.—Intensive feeling, in Wundt's psychology, a feeling, or affective process, which depends upon the relation of the qualitative attributes of the sensational elements in perceptions or ideas.

The expressions "intensive" and "extensive" do not refer to the character of the feelings themselves, for they are in reality always intensive, but to the conditions for the rise of these feelings.

W. Wundt (trans.), Outlines of Psychol., p. 164.

Law of feeling, in psychol., the doctrine that, in many cases, association of ideas depends, not upon the contiguity or resemblance of the ideas themselves, but upon a permanent or transient state of the feelings.

a permanent or transient state of the feelings.

The writers who have pointed out this influence (often efficacious though latent) have conceived this superior law, which might be called the law of feeling, in two different ways, some as absolute and universal, others as partial and local.

T. Ribot (trans.), Psychol. of Emotions, p. 173.

Oscillatory feeling, in Wundt's psychology, a total feeling in which opposing feelings, or affective processes, alternate with each other in rapid succession.—Partial feeling, in Wundt's psychology, a feeling, or affective process, which enters as a component into a total feeling.

Every composite feeling may, accordingly, be divided) into a total feeling made up of all its components, and o into single partial feelings which go to make up the otal feeling. These partial feelings are in turn of differ-

ent grades, according as they are simple sense-feelings (partial feelings of the first order), or feelings which are themselves composite (partial feelings of the second or higher orders).

W. Wundt (trans.), Outlines of Psychol., p. 159.

Total feeling, in Wundt's psychology, the affective experience which results from the simultaneous presence of separate affective processes in consciousness; the resulperience which results from the since separate affective processes in constant of a number of partial feelings.

sory, result of the application of a stimulus.

Likeness may mean "likeness of feeling-effect," as in the former case it means likeness of direct sense-effect. Green and blue would then be like, because they put us in like moods, of restfulness or quiet.

E. B. Titchener, Exper. Psychol., I. ii. 54.

ferred to the sensation which it thus accom-panies, and of which, in some psychological systems, it is even regarded as an attribute;

Perhaps the most efficient agent in determining the manner in which deluations are formed is the feeling-tone of pleasantness and unpleasantness.

J. W. Stauphter, in Amer. Jour. Psychol., XI. 307.

affective tone.

feed-sheet (fēd'shēt), n. A movable apron or table which feeds material into a machine, as the feed-apron of a wool-carding engine. Also called feed-cloth.

feed-table (fēd'tā'bl), n. In textile-manuf, a movable, flexible table, usually constructed of narrow slats of wood, for carrying or feeding material into a machine.

feed-tank (fēd'tangk), n. 1. A reservoir or vessel in which the water to be supplied or fed to a steam-boiler is contained. The water may be hot or cold: when hot the tank is usually closed to prevent loss by evaporation.—2. A reservoir or vessel designed to hold liquid fuel, such as kerosene or gasolene, which is to be fed to a burner.—3. A reservoir or tank conficient as the feed to a burner.—3. A reservoir or tank conficient as the feed to a burner.—3. A reservoir or tank conficient as the feed to a burner.—3. A reservoir or tank conficient as the feed to a burner.—3. A reservoir or tank conficient as the feed to a burner.—3. A reservoir or tank conficient as the feed to a burner.—3. A reservoir or tank conficient as the feed to a burner.—3. A reservoir or tank conficient as a feed of a rope.

Fehling's reagent, test. See *reagent, *test! fei (fē, é), n. [Tahitian fei, the vernacular name of the plant and its fruit.] The wild banana of Polynesia and New Caledonia, Musa Fehi. It is distinguished from cultivated bananas and plantains in having erect fruit spathes, bearing numerous crowded, angular, orange-colored fruits containing a few seeds. The fruit is prepared in various ways for food: sometimes together with cocoanut-custard and other ingredients. In the water with cocoanut-custard and other ingredients. In the same as a feed of a very constructed of the plant and its fruit.] The wild banana of Polynesia and New Caledonia, Musa Fehi. It is distinguished from cultivated bananas and plantains in having erect fruit spathes, bearing numerous crowded, angular, orange-colored fruits containing a few seeds. The feet feed of a very constructed to a consistency of paste and made into padding tog

feint, n. 3. pl. See faint, n., 2. fell-tsui (fā-tswē'), n. [Chin. fei-ts'ui: fei, fé, the blue-green kingfisher; ts'ui, the feathers of this bird, used in ornamental feather-work.] A beautifully variegated green variety of jadeite much prized, on account of its coloration, by the Chinese. The prevailing shade is a bright emerald- or cabbage-green. fel (fel), n. [L., gall: see gall.] Gall; bile.—Fel bovis, the pharmacopoisi name for or-gall.

Feldsparic (feld-spär'ik), a. [feldspar + -ic.] Same as feldspathic. N. E. D. feldspathization (feld-spath-i-zā'shon), n. [feldspath(ic) + -ice + -ation.] In petrog., the development of feldspar in rocks through content maternaryhism. tact-metamorphism. Fournet.
feldspathize (feld'spath-iz). v. t.; pret. and

Ieldspathize (feld'spath-iz), v. t.; pret. and pp. feldspathized, ppr. feldspathizing. [feldspath + -ize.] To change to feldspar: a term employed in geology to describe this metamorphic process. Geikie, Text-book of Geol., p. 780. feldspathoid (feld'spath-oid), n. [feldspath + -oid.] Feldspar or some other species (nephelite, sodalite, leucite, and the scapolites) which plays a similar part in the composition of rocks.

of rocks.

Félibre (fā-lēbr'), n. [F. Félibre, mod. Pr. felibre, a particular use, in connection with Felibrige, of felibre, a parishioner, usually identified with Sp. feligrés, a parishioner, of unknown origin but conjectured by some to be reduced from L. filius gregis, 'son of the flock,' or filius ecclesiæ, 'son of the church.' A literary fancy has made félibre mean 'bookmaker,' as if from Pr. faire (< L. facere), make, + libre (< L. liber), book.] A member of the literary society known as *Félibrige (which see). which see).

Felibrian (fe-lib'ri-an), a. [F. félibrien, (Félibre: see *Félibre.] Relating or pertaining to the Félibres or the Provençal literature.

Felibrige, a name adopted by the society mentioned: see *Felibre.] A society constituted in Provence, in 1854, for the maintenance and purification of the Romance dialects of the south of France, represented by the Provençal, and for the promotion of Provençal literature felic (fel'ik), a. [fel(dspar) + -ic.] In petrog., in the quantitative system of classification (1902), a term used to signify that a rock, or group of rocks or minerals, has the properties of or contains feldspar. See quantitative sys-

of or contains feldspar. See quantitative system of igneous *rocks.

Felichthys (fel-ik'this), n. [NL., < L. felis, cat, + Gr. iχθiς, fish.] The generic name of a large sea-catfish, known as gaft-topsail cat, from the elevated dorsal fin. The common species is F. felis.

fellaheen (fe-lä'hēn), n. pl. See fellah.
felleous (fel'ē-us), a. [L. felleus, < fel (fell-), gall.] Relating to the bile; bilious.
fellmongery (fel'mung-gèr-i), n. [fellmonger + (er)y.] The business of a fellmonger or his establishment.

Woellen mills tangeries and fellmongeries.

stàblishment. Woollen mills, tanneries and *fellmongeries.* Nature, Aug. 23, 1902, p. 418.

Fell sandstone. See *sandstone.

Fell sandstone. See *sandstone.

Felly cut-off and doweling machine, a saw-table with two circular saws used to cut off the ends of felly-blanks, at the right length and proper bevel, and to make the dowel-seats. —Felly-planing machine, a wood-planer for planing strips and blanks for fellies, shafts, carriage-bows, etc. It planes several at once. A more complicated machine is allied to a molding-machine and employs one, two, or four cutter-heads placed vertically or horizontally to dress two or four sides of bent fellies. —Felly-rounding machine, a machine for rounding and finishing the inner curve of bent and planed fellies. It is essentially a molding-machine having one horizontal cutter-head. —Felly-truing machine, a sander used in finishing fellies. See *sander.

felly-holder (fel'i-hōl'der), n. A felly-plate and a T-head bolt which together form a clamp over the joint in a felly and prevent the wood from splitting.

from splitting.
felon-grass (fel'on-gras), n. Either of two
plants reputed to cure felons: (a) The masterwort, Imperatoria Ostruthium. (b) The black

ear, 1.

felonice (fē-lon'i-sē), adv. [Law L., adv. from

*felonicus, adj., < felo(n-), felon.] In Eng. law,
felonicusly: a term formerly required to be
used in all indictments for felony.

felon-weed (fel'on-wēd), n. The common Old
World or tansy ragwort, Senecio Jacobæa, adventive in the United States: so called from its
use as a remedy for felons.

[G. felo rock + i. a letter used to sign

use as a remedy for felons.
felsi. [G. fels, rock, + i, a letter used to signify that the character is microscopic. Cf.
*felso-.] In petrog.. in the quantitative system of classification (1902), a prefix placed before the name of a rock to signify that its texture is microfelsitic, microscopically aphanitic, and homogeneous, but not that of isotropic glass:

as, felsimonzonose.

felsitic, a. 2. Having an aphanitic texture:
applied to the ground-masses of those porphyries which are so fine-grained as to be aphanitic, and to those glassy ones that do not

have a vitreous luster.

felsitoid (fel'sit-oid), a. [felsite + -oid.] In N. L. Britton, Manual of Flora of Northern States, p. 952. petrog., having a felsitic appearance, with an fence-season (fens'sē'zn), n. Same as close-exceedingly compact aphanitic texture: ap-time.

exceedingly compact aphanitic texture: applied to metamorphic rocks. Such rocks occur in beds or bed-like masses, sometimes in districts of contact metamorphism. They embrace halledinta, adinole, and porphyroid. Geikie.

felso. [G. fels, rock, + o, a letter used to signify that the character is megascopic.] In petrog., in the quantitative system of classification (1902), a prefix placed before the name of a rock to signify that its texture is megascopically felsitic, megascopically aphanitic, but not glassy: as, felsomonzonose. It is used in a similar manner in petrography generally and may be prefixed to the name of any aphanitic rocks. Such rocks occur in the stolen goods are sold. See fence, n., 7.

fenchene (fengk'\vec{o}n), n. [fench(yl) + -ene.]
An oil, $C_{10}H_{16}$, of the terpene series resembling camphene. It is prepared by boiling fenchyl chiorid, $C_{10}H_{17}$ Cl, with aniline.

A ketone, $C_{10}H_{16}$ O, isomeric with camphor, which it resembles in general chemical properties. The dextro-form occurs in fennel-oil, the levo-form in thuja-oil. or a rock to signify that its texture is mega-scopically felsitic, megascopically aphanitic but not glassy: as, felsomonzonose. It is used in a similar manner in petrography generally and may be pre-fixed to the name of any aphanitic rock: as, felsorhyolite, felsolization.

felsöbanyite (fel-ső-ban'yīt). n. [Hung. Felső Bánya, upper mine': felső, upper, bánya, mine.] A hydrated aluminium sulphate, ocmine in anow-white crystalline masses, found guard for the hand, used in fencing.

woolen wadding used to protect parts of the fore-and-aft fender of wood hung over a ship's

The common felwort is Gentiana Amareli also called autumn gentian. The name is also applied to species of Swertia, a genus closely related to Gentiana. femaleness (fe'māl-nes), n. The quality of

Numerous facts point to the conclusion that maleness and femaleness may be regarded as expressing metabolic alternatives open to the germ-cell in its development, and that the bias in one direction or the other is largely due to environmental stimuli. Encyc. Brit., XXXII. 210.

feme, n.—Feme sole trader, a married woman who, by the custom of London, and either by common law or by statutory authority in many of the United States, is entitled to carry on business on her own account and re-

by the custom of London, and either by common law or postatory authority in many of the United States, is entitled to carry on business on her own account and responsibility.

femic (fem'ik), a. [fe(rro)m(agnesian) + -ic.] Having the characters of, or belonging to, the second group of standard minerals, including non-aluminous ferromagnesian and calcie silicates, silicotitanates, and non-silicate and non-aluminous minerals. Used in the quantity of the company places.

guard.

fender-skid (fen'dèr-skid), n. In lumbering, skid placed on the lower side of a skid ding-trail, on a slope, to hold the log on the trail while being skidded.

fendillate (fen'di-skid), n. In lumbering, a kid placed on the lower side of a skid ding-trail, on a slope, to hold the log on the trail while being skidded.

fendillate (fen'dèr-skid), n. In lumbering, a kid placed on the lower side of a skid ding-trail, on a slope, to hold the log on the trail of fendillate (fen'di-skid), n. In lumbering, a kid placed on the lower side of a skid ding-trail, on a slope, to hold the log on the trail of fendillate (fen'di-skid), n. In lumbering, a kid placed on the lower side of a skid ding-trail, on a slope, to hold the log on the trail of fendillate (fen'di-skid), n. In lumbering, a kid placed on the lower side of a skid ding-trail, on a slope, to hold the log on the trail of fendillate (fen'di-skid), n. In lumbering, a kid placed on the lower side of a skid ding-trail, on a slope, to hold the log on the trail of fendillate (fen'di-skid), n. In lumbering, a kid placed on the lower side of a skid ding-trail, on a slope, to hold the log on the trail of fendillate (fen'di-skid), n. In lumbering, and the log of the lower side of a skid ding-trail, on a slope, to hold the log of the lower side of a skid ding-trail, on a slope, to hold the log of the lower side of a skid ding-trail, on a slope, to hold the log of the lower side of a skid ding-trail, on a slope, to hold the log of the lower side of a skid ding-trail, on a slope, to hold the log of the cates, silicottanates, and non-silicate and non-aluminous minerals. Used in the quantitative classification of igneous rocks. See *rock1.

feminin, a, and n. A simplified spelling of

feminism, n. 2. The presence of specifically feminine characteristics in the male.

feminine characteristics in the male.

feminist (fem'i-nist), n. [F. féministe, < L. femina, woman, + -ista, E. -ist.] 1. An advocate of the claims of women as the equals of men in the realms of literature and art as well as in the sociological world. Athenæum, Nov. 26, 1904, p. 730.—2. One who devotes himself to the study of woman, especially from the physiological and medical points of view. G. S. Hall, Adolescence, I. xiv. femorohumeral (fem'ō-rō-hū'me-ral), a. Re-

lating to both the femur and the humerus. femoropopliteal (fem'ō-rō-pop-li-tē'al), a. Of or pertaining to both the femur and the popli-

hellebore, Helleborus niger.

felon-herb (fel'on-erb), n. Either of two plants reputed to cure felons: (a) The common mugwort, Artemisia vulgaris. (b) The mouse-ear hawkweed, Hieracium Pilosella. See mouse-

femur, n.—Pilastered femur, a thigh-bone on the linea aspera is greatly enlarged and prominent.

the lines aspers is greatly emarged and prominents.

**Rence, n.— Cockatoo, dead-wood, dog-leg fence. See
**cockatoo, etc.—Panel fence. Same as **make fence.
See fence.—Stump fence, a fence composed of uprooted
stumps of trees lad horizontally, the roots of contiguous
stumps interlacing.—To mend one's fences, to guard
one's own political interests at home. [Political slang,
17 q 1

fence-arbor (fens'är'bor), n. A piece which connects the spindle and the tumblers in a combination-lock. See lock1.

Modern combination locks are so constructed that by means of independent bearings, which are operated through the revolution of the spindle, and by use of a balanced fence-arbour, . . . it is impossible for any one manipulating the spindle or the dial to form any idea of the position of the tumblers on the inside, because the moment the spindle is revolved, the fence-arbour is lifted away from the tumblers, and there is no possibility of feeling their motion.

Encyc. Brit., XXXII. 380.

fence-row (fens'rō), n. A fence with the line of shrubs and other vegetation which frequently grows up under its protection.

Along fence-rows in partial shade.

N. L. Britton, Manual of Flora of Northern States, p. 952.

fenchyl (fengk'il), n. [G. *fenchyl, < fenchel, fennel, + -yl.] In chem., the levo-form of *fenchone (which see).

mine.] A hydrated aluminium sulphate, occurring in snow-white crystalline masses, found at Kapnik Bánya, near Felső Bánya, Hungary. felt¹, n.—Fire felt, a fire-proof material made up in sheets to be placed in walls and floors to increase their fire-resisting qualities.—Foundation felt, a coarse felt, made in sheets of varying thickness, to be placed between the feet of a machine and its foundation, to decrease the amount of vibration transmitted to the foundation from the machine.—Microlitic felt, in petrog... the ground-mass of some lavas, trachytes and andesites, which are composed of microscopic prisms or fibers of feldspar. felter (felt'er), n. [felt¹ + er¹.] One who follows the occupation of feltmaking.

In medieval armor, fender-bar (fen'der-bar), n. Naut., a long at Kapnik Banya, near Felsö Banya, Hungary. felt¹, n.— Fire felt, a fire-proof material made up in sheets to be placed in walls and floors to increase their fire-resisting qualities.— Foundation felt, a coarse felt, made in sheets of varying thickness, to be placed between the feet of a machine and its foundation, to decrease the amount of vibration transmitted to the foundation from the machine.— Microlitic felt, in petrog., the groundmass of some lavas, trachytes and andesites, which are composed of microscopic prisms or fibers of feldspar.

felter (felt'er), n. [felt¹ + er¹.] One who follows the occupation of feltmaking.

feltrum (fel'trum), n. [ML., felt, packing: see felt] and ef. feuter¹.] In medieval armor,

S.—30

side just above the water-line amidships to prevent chafing against a dock. fender-boom (fen 'der - böm), n. See shear

fender-guard (fen'der-gärd), n. See *fender-

fender-rail (fen'der-ral), n. A rail on the exterior of a street-car designed to act as a fen-der in protecting the side-panels against in-jury from the wheels of passing vehicles. It is armed with a strip of iron called the fenderguard.

sion + -aie².] To split or crack slightly in many places. fendillation (fen-di-lā'shon), n. The condition of being fendillated. fenestella, n. See *finessi.
fenestella, n. 4. [cap.] A genus of pyrenomycetous fungi having the perithecia arranged in more or less definite groups beneath the surface of the bark of the host. he name refers to the spores, which have both lougitudinal and transverse septa, giving their surface a resemblance to small windows.

fenestra. n. 3. In surg., an opening in a

windows.

fenestra, n. 3. In surg., an opening in a splint or immovable dressing to permit of inspection of the part or to relieve pressure.

Mandibular fenestra, the mandibular foramen.

fenestrate, a. 3. In surgical instruments,

having large openings.

The entire covering of the mastoid should be chiseled away with . . . a bone gouge, aided at some steps by a fenestrated, sharp, hollow curette, and with bone-cutting forceps.

Phil. Med. Jour., Jan. 31, 1903, p. 223.

feng-hwang (fung'-hwang'), n. See fung-hwang. In Chinese art it is used as the emblem of the empress.



hwang, or 'Chinese Phenix': wood-carving of about 1600, te Imperial Palace of Peking, China. In the Pennsylvanian, Philadelphia.

cennel, n.—Axorean fennel, the sweet fennel, Fæniculum dulce.—Indian fennel, a variety of the common fennel, Fæniculum Fæniculum, cultivated in India and used in curries and for medicinal purposes.—Prairie-fennel, a plant of either of the umbelliferous genera Lomatium or Musineon, abundant in



Prairie-fennel (Lomatium montanu One third natural size; fruit natural size.

the western United States from Montana to Washington: suspected of being poisonous to stock. There seems to be some proof of this in the case of Lomatium nudi-



Prairie-fennel (Musineon Hookert). One third natural size; fruit twice natural size.

cauls, but L. montanum and Musineon Hookeri are in-nocuous and bid fair to become useful forage-plants.

fenomenal, fenomenon, etc. Simplified spellings of phenomenal, etc.

fense, n. and v. A simplified spelling of fence. fent, n.—To spring a fent, to test the color-strength of a dye by dipping in it a piece of the material to be colored.

Fenzing (fun'ting'), n. See *fun-ting.
Fenzina (fenz'li-a), n. [NL. (Lindley, 1833),
named in honor of Eduard Fenzi (1808-79), an named in nonor of Eduard Fenzi (1808-19), an Austrian botanist.] A former generic name of a plant of the family Polemoniaceæ, now referred to Linanthus under the specific name L. dianthiflorus (Fenzlia dianthiflora of Lind-

ley). It is an old garden annual from southern California, dwarf and tufted, bearing a profusion of lilac, purple, or sometimes white flowers resembling pinks. The white-flowered form is sometimes catalogued as Fenziia alba.

nowred form is sometimes catalogued as Fenzia aloa. See *ground-pink.*

ferding (fer'ding), n. [LG. ferding or Sw. fjerding, a fourth part, = E. farthing.] A silver coin struck at Riga and Revel in the sixteenth century and belonging to the currency of the Order of Livonia. It was equal to the fourth of a thaler.

Fermatian demonstration. See *demonstra-

Fermat's law. See *law1.

ferment, n., 2. Familiar examples of the action of ferments are the conversion of starch to dextrose, of albumins to peptones, and of fats to fatty acids and glycerin, by the diastatic, proteolytic, and lipolytic ferments of the digestive juices. Besides the common digestive ferments which are secreted by the digestive glands, there are numerous others which exercise their specific functions within the cells, and which, in contradistinction to the former, are designated as tissue-or intracelular ferments. The number of these is very large, and it appears that many metabolic processes, which were formerly attributed to a special vital activity on the part of cells, are referable to their action. In the liver-cell not less than a dozen different ferments of this character have been demonstrated. The great majority of known ferments are hydrolytic. These effect the cleavage of those substances against which their special activity is directed, in the presence of water, the components of which take part in the reaction. In addition there are the so-called oxydases, which can effect oxidations, and there is evidence to show that reducing ferments, reductases, likewise occur. Until quite recently it was held that ferment action was in all cases destructive. Research has shown, however, that certain ferments are capable of a reversible action, and are hence constructive as well as destructive. Lipse, for example, will not only cause the decomposition of ethyl butyrate to ethyl alcohol and butyric acid, but it will also construct this substance from the corresponding radicals. Maltase will similarly invert maltose to dextrose and reconstruct this substance from the corresponding radicals. Maltase will similarly invert maltose to dextrose and reconstruct the maltose molecule from dextrose. Whether or not all hydrolytic ferments exert a reversible action is not known, but it is quite possible. All ferments have a certain optimum temperature at which their activity is most extensive.

group, but is about that of the body. Boiling destroys the fermenta, but in the dry state they may be heated to a higher temperature without losing their activity. The effect of cold is similar to that of heat. Quite important also is the reaction of the medium. Certain ferments do best with a feebly acid reaction; with others an alkaline reaction is necessary; while still others can act in acid as well as in alkaline and neutral media, but exhibit certain preferences. Generally speaking, the action of the different ferments is specific, that is, a given ferment mister only upon a certain substance in a manner comparable to the relation existing between a lock and its key. Or it might also be said that a given ferment is specifically tuned to the substance upon which it can act. Upon this behavior the classification and nomenclature of the ferments are based. In the latter the suffix-ase is used in connection with the name of the substance against which the specific action of the ferment is directed. A ferment which causes the cleavage of proteins (albumins) is thus termed a protease; one which decomposes fats, a lipuse; and similarly amylase, maltase, lactase, urcase, nuclease, aldehydase, etc. Of the chemical nature of the ferments very little that is definite is known. As a class, they are usually regarded as being of albuminous character; but it is possible that the reactions which suggest this view are referable merely to contaminating albuminous substances. Colloidal solutions of various metals, such as platinum, palladium, ridium, osmium, etc., have properties which are very similar to those of the ferments, for which reason they are sometimes spoken of as metallic ferments or inorquaic ferments. Bredig and Von Bernek have shown that a gramatomic weight (198 grams) of colloidal solutions will invert cane-sugar eractly like the organic ferments of an animal or a vegetable organism and cours is monomolecular, a fact which indicates that the piatinum itself does not enter into the reaction which occurs is m creted to the outside, but remain intracellular. Their action can be demonstrated after the death of the cell, if the cell-body is entirely broken up, as by repeated thawing and freezing, by high pressure, etc. Familiar examples of the action of organized ferments are the alcoholic fermentation produced by yeast, the acid fermentation caused by the mycoderma aceti, etc.—Conform ferment, a bacteriolytic ferment which will cause the destruction of those bacteria only which produce it.—Glycolytic ferment, a ferment assumed by Lépine to exist in the blood and to cause the decomposition of glucose into water and carbon dioxid. Also glucolytic.—Heteroform ferment, a bacteriolytic ferment which will cause the destruction not only of the bacteria which produce it but of others as well.—Hydrolytic ferment, a ferment which causes the cleavage of a more complex substance into simpler bodies in the presence of water, which is at the same time decomposed. The action of all the digestive ferments is hydrolytic. See */ferment, 2.—Lactic ferment, a ferment which will decompose lactose (milk-sugar) into lactic acid and carbon dioxid.—Lactic ferment, a ferment which causes the cleavage of disaccharides to simpler sugars with 6 atoms of carbon.

fermentation, n.—Fermentation test, a test for

derived from the triber by the presence of a process analogous to fermentation induced in the tissues by the presence of a minute quantity of the specific virus derived from one sick of the same disease. Fermentation the extraction that the extraction that the extraction induced in the tissues by the presence of a minute quantity of the specific virus derived from one sick of the same disease. Fermentation tube, a delicate glass apparatus designed to detect gases apparatus designed to detect gases apparatus designed to detect gases of gas rise in the vertical tube, which is frequently graduated to measure the gas. —Mucico or mucous fermentation, a special kind of fermentative change to sometimes observed in solutions of cane-sugar, in which nether common alcohol nor acetic acid is produced, but in which the sugar yields carbon-dioxid gas, mannitol, and a mucilaginous or gummy substance. Access of air and the presence of nitrogenous matter are necessary, and the solution must be neutral or slightly alkaline. Jour.

Soc. Chem. Industry, VIII. Sil.—Ropy fermentation, a so-called disease of wine and beer which renders the fermenting liquid viscid. It is believed to be caused by the cocasional presence of an abnormal ferment-organism.—Tobacco fermentation, a peculiar form of fermentation which occurs during the process of curing tobacco. Oxidizing ferments probably play an important part.

ferment-cell (fer'ment-sel), n. In histol., a cell which secretes a ferment.

fermenting-square (fer-men'ting-skwar), n.

A shallow vat for fermentations.

fermentiscible (fer-men-tis'i-bl), a. [Irreg. \(\) ferment + L. \(\) -isc-ere, inceptive formative,

+ ible.] Capable of undergoing fermenta-

The molecular disturbance thereby produced is imparted to the fermenti(scible substance, sugar, and breaks it up into simpler bodies, alcohol and carbon dioxide.

Science, N. S., Jan. 2, 1903, p. 15.

fermentum (fer-men'tum), n. [NL. use of L. fermentum, ferment.] In the medieval church, a portion of the eucharist reserved from a previous consecration, which was brought to a priest about to celebrate mass. The particle thus used was called fermentum, the leaven, and was often sent by the Pope or a bishop, as a token of Christian communion, to priests in neighboring churches.

was formerly eaten. See Cyathea.—Blue fern, Pel-





Deer-fern, an evergreen fern, Srethopteris Spicani, so called in the northwestern United States and Canada. — Eaglefern, the comma brake, Pteridum aquilinum. See Pteris.—Elk-horn fern, Same s stag-horn fern, Alcicornium (Platy

aguilimm. See Pteris.—Rik-horn fern. Same as stag. horn fern. Same as stag. horn. Alcinite plant (one fourth natural size). See segment (three fourths natural size). See segment (three fourths natural size). See segment (three fourths natural size). See segment fern. Fragrant fern. Dryopteris fragrant, a boreal species common to both hemispherea. — Grass-fern, any one of several species of Vittaria, in the United States, V. lineata, occurring in Florida. See *Vittaria—Grass-leaved fern, same as grass-*fern, especially Vittaria elongata, a variable estern tropical species.—Hay-scented fern, Jennstaghapunctilobula. See Dicksonia and *Dennstaghtia.—Horeshoe fern, in New Zealand, Marattia fraxinea.—Interrupted fern, Osmunda Claytoniana. The sporangua are borne usually in two or three pairs of much reduced pinns near the middle of the otherwise foliose frond, hence the



(From Britton and Brown's "Illustrated Flora of the Northern States and Canada,") Two fifths natural size.

vernacular name. It is a native of the eastern United States and Canada.—King fern, the royal fern, 0-munda regalis. See Osmunda.—Ostrich fern, See ostrich-fern and *Matteuccia.—Parasol-fern. Same as coral-*fern - Profeir.—Profe

Japanese ferns, commonly of Davallia bullata, closely bound together with absorbent vege-

table fiber. Growth is induced by drenching in water and hanging in a warm shaded situation.

fern-bird (fern'berd), n. A small passerine bird of New Zealand, which belongs to the genus Spheneachus and is usually placed with the warblers of the Old World.

fern-bush (fern'bush), n. Same as sweet-fern (which see with cut).

fern-chafer (fern'chafer), n. A British collectors' name for a European scarabæid beetle, Rhizotrogus solstitialis.

Rhizotrogus soletitalis.

fern-cycad (férn'si'kad), n. Any plant belonging to the Cycadofilices. See *Cycadofilices.

These plants, therefore, whilst retaining the outward form of ferns, are in reality transitional types. For convenience, these plants, which include the genera Heterangium, Lyginodendron, Medulloss, and many others, have been placed in a special group, the Cycadofilices or Fern-Cycads.

Nature, June 4, 1903, p. 113.

fern-tree (férn'trē), n. In Australia, a treefern (which see).

fernwort (fern'wert), n. Any plant belonging to the Pteridophyta, or ferns and fern allies.

In recent years tardy justice has been given to the fernworts (Pteridophyta). Science, May 22, 1903, p. 830.

Ferranti effect. See *effect.

Ferranti effect. See *effect.
ferrarenite (fe-rar'en-it), n. [L. ferrum, iron,
+ arena, sand, + -ite².] In petrog., a sandstone composed of iron ores. Grabau, 1904.
ferrated (fer'ā-ted), p. a. [L. ferratus, covered
with iron, + -ed².] Charged with iron as a
constituent, as a substance of organic origin

intended for medical use.

ferratin (fer a-tin), n. [ferrate + -in².] An iron-containing nucleoproteid which occurs in the liver. It was discovered by Schmiedeberg.

curs as a constituent of brown hematite ore of iron and of common iron rust; artificially prepared it is a useful coagulant for clarifying water, and serves as a brownish or buff-colored dye. Improperly called ferric hydrate.— Ferric inductances, inductances with an iron core.— Ferric inductances, inductances with an iron core.— Ferric nitrosulphate, in chem., a basic ferric salt, made by treating ferrous sulphate with nitric acid; it has been used in tanning.— Ferric oxid, in chem., Feyo, the red oxid of iron, which occurs in nature as specular iron ore and red hematite, and as a constituent of brown hematite ore and of iron rust; artificially prepared it is used as a polishing-powder (colcothar) and a cheap pigment.— Ferric sulphate, in chem., a substance, Fey(S04)3, used, alone or as a constituent of iron alum, in certain processes of tanning and dyeing.

ferricyanhydric (fer'i-sī-an-hī'drik), a. Same as hydroferrocyanic

ferrilization

taining both iron and magnesium: applied to minerals and also to rocks. The common ferromagnesian rock-making minerals are pyroxenes, amphiboles, mica, and olivin.

errometer (fe-rom'e-ter), n. [L. ferrum, iron, + Cr. \(\mu trpo\), a measure.] An instrument devised for the determination of the quantity of iron in the blood.

erromolybdenum (fer'ō-mo-lib-dō'num), n. A chemical mixture of iron and molybdenum, and adding to it the required percentage of metallic iron: used principally in making stell for gun-forgings.

ferrilization

ferrilutite
lutum, mud, + -ite².]
mud rock. Grabau, 1904.

ferrin (fer'in), n. [L. ferrum, iron, + -...
A brown iron-containing pigment found in the so-called livers of various invertebrates.

ferrirudite (fer-i-rō'dit), n. [L. ferrum, iron, + rudus, rubble, + -ite².] In petrog., a conglomerate or breccia of iron ore or distinctly iron-bearing minerals. Grabau, 1904.

ferrite, n. 2. In chem.: (a) A compound of ferric oxid (Fe₂O₃) with a more basic metallic oxid, as calcium ferrite (CaFe₂O₃), from the union of ferric oxid with lime (CaO). The mineral franklinite consists essentially of zine mineral franklinite consists essentially of zine as separated out (from as separated out (f

ferro-alloy (fer'o-a-loi'), n. An alloy of iron; a chemical mixture of some metal with iron.

ferro-aluminium (fer'ō-al-ū-min'i-um), n. In metal., an alloy of iron and aluminium, used in modifying the character of steel, and in the production of mitis-castings of wrought-iron.

ferroboron (fer-ō-bō'ron), n. In metal., a compound of iron with boron, iron boride, intended for use in ascertaining the modifying effect of

ferrobronze (fer'ō-bronz), n. In metal., bronze or gun-metal alloyed with a small proportion of iron.

boron upon steel.

ferrochrome (fer'o-krom), n. See *ferrochro-

farrochromium (fer-ō-krō'mi-um), n. An alloy of iron and chromium, the proportions of the latter element varying from over 20 per cent. in poor ferrochromium to more than 63 per cent. in poor ferrochromium to more than 63 per cent. in rich ferrochromium. The percentage of carbon in the alloy is sometimes as high as 10. Ferrochromium is prepared in crucibles and requires a large consumption of fuel. When the required proportion of chromium is not above 40 per cent., it is prepared in a blast-furnace from chrome fron-ore. Ferrochromium is used chiefly in the production of chrom-steel (which see, under *steel1). It is also made by electric smelting, and by the Goldschmidt process (see *aluminothermics). ferrocobaltin (fer-ō-kō'bâl-tin), n. Same as *ferrocobaltite.

*ferrocobaltite.

ferrocobaltite (fer-ō-kō'bâl-tīt), n. The mineral cobaltite, when containing a more than usually large proportion of iron.

ferroconcrete (fer-ō-kon'krēt), n. Reinforced concrete; steel-concrete. See *concrete. ferrocyanhydric (fer'ō-sī-an-hī'drik), a. Same as hydroferrocyanic. ferrodolomite (fer-ō-dol'ō-mīt), n. In mineral., a carbonate intermediate between dolomite and cidnite containing morable accounts in the con siderite, containing variable amounts of iron. Van Hise, 1904. ferroferric (fer-ō-fer'ik), a. In chem., same as

Jour. Soc. Chem. Industry, XIV. rosoferric. 157.

ferrogallic (fer-ō-gal'ik), a. 1. In photog., noting a printing process in which paper sensitized with a solution containing gelatin, ferric chlorid, ferric sulphate, and tartaric acid, and dried in the dark, is, after exposure beneath the liver. It was discovered by Schmiedeberg. See *phosphocarnic acid.

See *phosphocarnic acid.

ferratogen (fe-rat'ō-jen), n. [ferrate + -gen.]

A nuclein compound of iron containing 1 per cent. of that metal: said not to be affected by the gastric juice but absorbed in the intestine.

Ferrel's gradient formula, law, theory of cyclones, theory of the circulation of the atmosphere. See *gradient, *law!, *cyclone, *circulation.

Ferrel', n.—Black-footed ferret, Putorius nigripes, a member of the weasel family, which inhabits the plains of Nebraska and Kansas, where it feeds largely on prairiedges. It is of a yellowish-brown color, with the tip of the tail and the legs black.

ferric, a. 2. In elect., containing iron.—Ferric hydroxid, in chem., a substance, Fe₂(HO)₆, which oc-

making.

ferrosomatose (fer-ō-sō'ma-tōs), n. A brown tasteless powder which consists of a mixture of 2 per cent. of an organic compound of iron with somatose, easily soluble in water: hematinic and non-styptic.

ferrotitanium (fer ō-ti-tā'ni-um), n. In metal.,

an alloy of iron and titanium used to some extent in steel-making.

ferrotungsten (fer-ō-tung'sten), n. In metal., an alloy of iron and tungsten, rich in the latter metal, used in the manufacture of tungsten steel for cutting-tools.

Steel for cutting-tools.

Ferrous oxalate, in chem., oxalate of iron with ferrous (apparently dyad) valence, FeC₂O₄. It occurs in the mineral humboldtite in lignite deposits, and is used in solution by photographera.—Ferrous oxid, in chem., a compound of iron with oxygen, FeO, in which the iron has apparently dyad valence.—Ferrous sulphate, in chem., sulphate of iron (with ferrous valence), FeSO₄, or in the crystallized condition FeSO₄, TH₂O, a salt extensively used in the arts for many purposes: same as green vitriol or copperas. See copperas. See copperas.

ferro-vanadium (fer "ō-va-nā' di-um), n. A chemical mixture of iron and vanadium, used

chemical mixture of iron and vanadium, used

ferrugination (fe-rö-ji-nā'shon), n. The process whereby, in the alteration of iron-bearing rocks, the residue becomes permeated and stained with compounds of iron, chiefly the

hydroxid limonite.

ferrule-hook (fer'il-huk), n. A ferrule and hook combined, used as an end-trimming for a swingletree.

ferrule-ring (fer'il-ring), n. A combined ferrule and ring for the end of a neck-yoke.

ferrum (fer'um), n. The Latin name for iron,

from which the chemical symbol for the metal, Fe, is derived: used by German pharmaceutical chemists, in price-lists, etc., and in the names for iron compounds, as ferrum citricum, citrate of

forty, n.—Asrial ferry, a transporter bridge or ferrybridge; a device for transferring traffic across a navigable
stream or waterway by means of a platform suspended
from a traveler or trolley running on a track on a bridgespan, elevated by end-towers sufficiently high to prevent
interference with navigation. The traveler, which is operated by motors controlled from the platform or car, travels
back and forth across the bridge-span, and thus conveys
the suspended platform at the level of the roadway or
approaches back and forth from one approach or landing
to the other.

fertil, a. A simplified spelling of fertile.

Fertile worker. See *worker.

fertilization, n.—Artificial fertilization. (a) The
bringing about of fertilization by artificial means, such
as placing the ripe ova and male cells of a fish in contact,
or placing the pollen of a flower upon the stigma. (b) The
artificial initiation of the process of development in an unfertilized egg by something else than a male cell. In 1899
Loeb found that after the unfertilized eggs of the sea-urchin have been immersed in a dilute solution of magnesium chlorid in sea-water they undergo normal or nearly
normal development when they are transferred to pure
sea-water. This has been held to be proof that fertiliza-

tion is a chemical process; but more recent experiments have shown that a similar effect may be produced by cane-sugar, ures, sulphuric acid, strychnine, and even, in the silkworm, by gently brushing the eggs. The eggs in which the experiments are most successful are those that cocasionally develop without fertilization under normal conditions, and as there is no physical or chemical similarity between the objects that have been used with success, it seems probable that they do no more than to disturb the stability of the egg and permit its organic mechanism for development to work, and that the effect may be no more like that produced by the male cell than a jar which opens the valve of a steam-engine is like the engineer.—Asymmetrical fertilization, the appearance, in the second generation and in later generations, of the descendants of a cross between two varieties of individuals that differ among themselves with respect to a parental characteristic: considered as evidence of the resolution of compound gametes into unit-characters.

In general terms we can declare that the result of the

In general terms we can declare that the result of the ross—the "asymmetrical fertilization," to speak strictly—is the production of a diversity of gametes.

Proc. Roy. Soc. (London), 1903, II. 79.

fertilizer-sower (fér'ti-lī-zér-so'ér), n. horse-power machine for sowing chemical fertilizers in drills or broadcast; an attachment to a seed-sower, either a broadcast or drill machine.—Hand fertilizer-sower, a small machine, re-sembling a hand broadcast sowing-machine, used to scat-ter asies or other fertilizer or to spread sand upon icy sidewalks or roadways. See sowing-machine.

fertilizing-pouch (fer'ti-lī-zing-pouch), n. The spermatotheca or receptaculum seminis of the queen-bee.

ferulic (fe-ro'lik), a. [Ferula + -ic.] Derived from Ferula Narthex or asafetida.—Ferulic acid, metamethoxy-parahydroxycinnamic acid, $C_{10}H_{10}O_4$, a crystalline substance which occurs in asafetida and can be made artificially from vanillin.

F. E. S. An abbreviation (a) of Fellow of the ntomological Society; (b) of Fellow of the Ethnological Society.

Entomological Society; (b) of Fellow of the Ethnological Society.

188Cue, n.—California fescue, Festuca aristulata, a Pacific species forming large and handsome tussocks along streams, etc.: rather harsh and coarse for forage.—Creeping fescue. Same as red *fescue.—Hard fescue, Festuca ovina duriuscula, a variety of the sheep's-fescue, which thrives on dry sandy soils and resists summer drought. It is of value for pasture, in cooler and mountainous regions and, if sown thickly and exclusively, makes a good lawn.—King's fescue, a native bunchgrass, Festuca confinia, valuable for forage on dry slopes in the northern Rocky Mountain region.—Meadow fescue. See tall *fescue.—Rat's-tail fescue, a slender weedy species, F. Myuros, with a close narrow panicle to which the name refers. It is a European species now well spread over North America.—Red fescue, Festuca rubra, a species of many forms with somewhat the range of the sheep's fescue, and differing from that species in having creeping rhizomes by which it forms a compact turf. In Europe it is rated with the best forage plants in Germany it is highly esteemed for dry sandy meadows. It is a good sand-binder and is useful also for shady lawns. A variety (glaucodea) called Tennessee fescue is the best pasture-grass in mountain valleys of North Carolina and East Tennessee.—Reed-fescue. See tall *fescue.—Sheep's fescue. See sheep's fescue.—Blender fescue, a native species, F. octofora, with thin erect culms and a narrow raceme or panicle, found in dry sandy places, etc., in the United States.—Tall fescue, a European species, F. estuca elatior, widely cultivated and thoroughly naturalized in North America, of great value for meadou-fescue. A more robust variety (arundinacea) is called reed-feacue and is very hardy and productive.—Various-leafed fescue, a slender furopean species of creeping habit, Festuca heterophylla, related to the red fescue and of like use in similar localities.

[6st8] (fest), n. [G., a feast, a festival: see feast.] In German usage, a gathering of

fest³ (fest), n. [G., a feast, a festival: see feast.] In German usage, a gathering of many persons to participate in or enjoy some festal

performance, as singing, shooting, gymnastic exercises, etc.: as, a sängerfest, schützenfest, turnfest, etc. Forest and Stream.

festilogy (fes-til'ō-ji), n. [L. festum, festival, + Gr. -λογια, ⟨λέγειν, speak.] A treatise on ecclesiastical festivals. Sometimes spelled

ecclesiastical festivals. Sometimes spelled festology.

festinate (fes'ti-nāt), v. i.; pret, and pp. festinated, ppr. festinating. To quicken the steps involuntarily when walking, as in paralysis agitans. Buck. Med. Handbook, VI. 486.

Festival of Lights. See *Hanukah.—Jewish festivals. The Jewish festivals or holy days may be divided into two categories, Biblical and post-Biblical. The former are: (a) The Sabbath (which see). (b) Rosh hodesh, the first (day) of the Jewish lunar month (Num. x. 10). (c) Pessh, the Passover, also called Chay ha-mazoth, the Feast of Unleavened Bread (see *matsoth). (d) Shabuoth, or Chay ha-Shabuoth, the Feast of Weeks, also called Yom ha-bikurim, or Day of the First-fruit (Num. xxviii. 26). (c) Sukkoth, meaning 'booths,' or 'tahernacles,' also called Chay ha-'Asiph (Ex. xxiii. 15, 16), the Feast of Ingathering (see Feast of Tahernacles). (f) Yom Teruah (Num. xxix. 1), the 'day of blowing the trumpet,' now known as Rosh ha-shanah or first of the Jewish year, when the shofar (ram's horn) is used. (f) Yom ha-kipurim, the Day of Atonement, which is not properly a day of feasting, but the most solemn fast-day in the year. The post-Biblical Jewish authorities have added an extra day to the principal festivals; thus the Feast of the Passover has now eight instead of seven days; the Feast of Weeks has two instead of one: the Feast of Tahernacles has (including Shemini 'Atsereth and Simhath Torah) nine in-

stead of eight; and Rosh ha-shanah has two instead of one. There are several minor festivals and holidays in the Jowish calendar, but these, with the exception of *Hanukah* (which see), as well as the above-named additional days, are disregarded by many reformed congrega-

festivous (fes'ti-vus), a. [festive + -ous.] Festive: as, a festivous occasion.

festology (fes-tol'ō-ji), n. Same as *festilogy. festoon, n. 5. A British collectors' name for a European limacodid moth, Apoda testudo, yellow-brown in color with narrow brown stripes arranged like a festoon.

Same as Christfestoon-pine (fes-tön'pin), n. mas *everareen.

mas *evergreen.

Petal circulation, the course of the blood-current in the fetus. It differs in some important respects from that in the adult, owing to the fact that the seration of the blood occurs in the placenta instead of in the lungs. There is a communication between the two sides of the heart, and the entire mass of blood in the body is of a mixed venous and arterial character, except that in the umbilical vein, which passes from the placenta to the liver, which more nearly resembles the arterial blood in the adult.—Fetal envelops, the membranes which cover the fetus in the womb; the chorion, amnion, and allantois.—Fetal inclusion, a double monstrosity in which one fetus is inclosed in the other; intrafetation.—Fetal membranes. Same as **/etal envelops.

fether, fethery. Simplified spellings of feather,

etid limestone. See *limestone.

fetidity (fē-tid'i-ti), n. [fetid + -ity.] Fetid nature or smell.

fetid-shrub (fe'tid-shrub), n. The papaw.

Asimma triloba.

fetish-drum (fē'tish-drum), n. A
in connection with fetishistic rites. A drum used

fetish-house (fē'tish-hous), n. The house or hut in which a fetish is kept. E. B. Tylor. fetishic (fē-tish'ik), a. [fetish + -ic.] Pertaining to or having the character of a fetish. F. Ratzel (trans.), Hist. of Mankind, I. 43. fetish-priest (fē'tish-prēst), n. A person who, with the assistance of a fetish, exercises maginal programs and programs and programs functions.

cal powers and performs religious functions: a term used to designate the shaman of Africa. F. Ratzel (trans.), Hist. of Mankind, II. 367.

fetticus (fet'i-kus), n. [Origin not known.]
The leaves of the corn-salad, used as a salad. The leaves of the corn-salad, used as a salad.

fettler (fet'ler), n. One who fixes or prepares.

Specifically—(a) one who cleans castings in a foundry,
chipping off rough spots, fins, etc., and brushing off the
sand. (b) one who prepares the hearth of a puddlingfurnace. (c) One who shaves and smooths green pottery
to remove the seams made in molding. (d) In textilemanuf., one who cleans up machinery, or serves as a
helper in a menial capacity.

fettling, n. 2. The repairing or preparation of a machine or part of a machine.—3. The process of cleaning castings after they leave the foundry sand, including the chipping off of runners, fins, and seabs, filing rough spots, cleaning sand from the surfaces, and cleaning out cores.—4. The repairing of the hearth of a nuddling furnace by the use of iron car rich out cores.—4. The repairing of the hearth of a puddling-furnace by the use of iron ore rich in oxygen.—5. In ceram., the process of evening the glaze on the surface of biscuit-ware before it is fired in the glost-kiln. After the ware has been dipped in the liquid glaze and allowed to dry, the excess of dry glaze is scraped out of the hollows and perforations. The surface is then retouched with a brush in spots which are thin or bare.

Faculty of Actuaries.

Figstiniog flags. See *flag4.

Fig. In music, an abbreviation of fortissimo: more usually ff.

F. P. P. S. An abbreviation of Fellow of the Faculty of Physicians and Surgeons.

An abbreviation of free of general accrage.

F. G. S. An abbreviation of Fellow of the Company of the

feu et lieu (fe ā lye). [F., L. focus et locus, 'hearth and place.'] In old French Canadian law, hearth and home, meaning actual settlement by a tenant on the land. Bouvier Law F. H. S. An abbreviation of Fellow of the Dict. Dict.

feu-holding (fū'hōl'ding), n. In Scots law, a F. I. A. An abbreviation of Fellow of the Intenure in which the tenant pays feu duty to stitute of Actuaries.

his superior. See feu. feuillemorte, n. 2. Same as feuillet, 2.

fevillemorte, n. 2. Same as fevillet, 2.

feverl, n.—Acclimation fever, an ephemeral fever which attacks a new-comer in the tropics. It has no definite character, but may be of gastric, malarial, or thermal origin, or may be a mild yellow fever in places where that disease is endemic. It has no real relation to the process of acclimation.—Aden fever. Same as dengue.—Adenonervous fever. Same as bubo plaque (which see, under plaque).—African Coast fever, a very severe piroplasmosis of cattle in Africa, similar to Texas fever, and transmitted by the brown tick (Rhipicephalus appendiculatus) and the black-pitted tick (R. sinus). Also called Rhodesian reducter. Rhodesian tick-fever, coast tick-fever, East Coast fever.—African fever. (b) Fernicious malarial fever.—Algid fever. See *algid.—Assam fever. Same as *kala-azar.—Autumnal fever, an indefinite term denoting any fever which occurs in the autumn, usually malarial or typhoid fever.—Balast fever. See *ballast.—Biddefer-evor. (b) Same as *kala-azar.—Black-water fever, malarial hemoglobinuria.—Black-water fever, malarial hemoglobinuria.—Black-water fever, malarial hemoglobinuria.—Black-water fever, malarial hemoglobinuria cheis symptoms are gastro-intestinal disorder and extreme depression of spirits.—Broken-wing fever.—Same as dengue.—Bucket fever, an old term for dengue.—Bu-ties of high the temperature of the body during the process of spirits.—Broken-wing fever. Same as dengue.—Bucket fever, an old term for dengue.—Bu-ties of high the transmitted of the high transmitted of the high transmitted of the high transmitted of the high transmitted and the black-pitch form the service of the high transmitted as corresponding to Meyner's commissure in manmala.—Association fibers, in neuro.

fiber of the exists in the brain of reptiles and smplich the risks in the brain of reptiles and supplication flower. See when the consentation flower commissured as corresponding to Meyner's commissured as corresponding to Meyner's commissured as corresponding to Meyner's commissured a

digestion.—Dumdum fever, a disease occurring in India, which resembles, and perhaps is identical with, kais-an: It is marked by enlargement of the liver and spleen and by the presence of protozoan parasites in blood drawnfrom the spleen.—Bast Coast fever. Same as African Coast *fever.—Elephantoid fever. See *elephantoid.

Fracture fever, a slight elevation of the body temperature coming within a few hours of the occurrence of a fracture.—Garrick fever. Same as Siddons *fever.—Garrick fever. Same as Siddons *fever.—Garrick fever. Same as Siddons *fever.—Same as black-water *fever and hemoglobinuric fever. Same as typhus fever.—Malarial fever of cattle. Same as Texas *fever.—Also known as piroplamonis borit.—Malta fever, a disease marked by long continuance of the fever at a nearly constant level, prostration, pains in the joint, headache, and diarrhea. It prevails along the shores of the Mediterranean and in other subtropical and tropical regions, and is associated with the presence in the body of a special microbe, Micrococcus melitensis. Also called rock-fever, Mediterranean fever. Naples fever.—Mediterranean fever. Same as Malta *fever.—Naples fever.—Mediterranean fever. Same as Malta *fever.—Naples fever.—Mediterranean fever, a continued fever resembling typhoid in its general symptoms, but not responding to the specific tests for that disease: its causation is not yet definitely ascertained.—Rhodesian fever, a cattle-disease in Africa, resembling in its symptoms and mode of transmission (by a tick) Texas fever.—Atenseum, May 21, 1904, p. 69.—Rocky Mountain spotted fever, see *tick-fever.—Stiff-necked fever. Same as dengue.—Subcontinuous fever, a low fever believed to be due to the aggregation of large numbers of persons in poorly ventilated rooms: so called because it once prevailed in Edinburgh while Mrs. Siddons was playing there.—Southern fever.

Same as Texas fever. Same as dengue.—Subcontinuous fever, remittent malarial fever.—Texas fever.

Same as Texas fever of cattle, an anemia caused by Firoplama b

fever-bush, n.—California fever-bush.

*quinine-bush. See *bear-brush and tassel-tree

feverd, pp. and a. A simplified spelling of

fever-fly (fe'ver-fli), n. A name given in England to a fly, Dilophus febrilis, which occasionally multiplies excessively. In past years the coincidental prevalence of fever during the swarming of this fly gave rise to the popular name. The larva eat the roots of the hop-plant.

fever-gum (fē'vėr-gum), n. The blue-gum, Ewcalyptus globulus. See fever-tree, 1. fever-wood (fē'vèr-wùd), n. Same as fever-

fezant, n. A simplified spelling of pheasant. -3. The ff. An abreviation (a) of the Latin fecerual, ey leave they did it or made it; (b) of folios; (c) of

fortissimo; (d) of following (plural).

F. A. An abbreviation of Fellow of the Faculty of Actuaries.

Horticultural Society.

Fianchetto di donna opening. See *opening. flat, n.—Joint flat, in law, a flat which formerly issued against two or more trading partners. Bourier.

wedgeded by the streamform and the control of the c

fiber. There are many kinds of fiber, most of them hav-ing names to define the use for which they are intended. 2. Said of paper that plainly shows fibers on its surface, as that made for United States bank-notes and some forms of bond-paper. fibra, n. - Fibre propries. Same as short association

fibrification (fi"bri-fi-kā'shon), n. The formation of fibers or fibrous structures.

I have not detected any other fibrification of the cells

Fibroma molluscum, a soft connective-tissue tumor of the

fibrinoglobulin (fī'bri-nō-glob'ū-lin), n. A loma. globulin which is derived from fibrinogen during the process of coagulation, that is, during fibrocartilage.

is an excessive blood.

Pibrinous bronchitis. See *bronchitis.—Fibrinous croup, true croup.—Fibrinous pleurisy. See *pleurisy.—Fibrinous pneumonia. Same as croupous pneumonia. (fi-bri-nū'ri-ā), n. [NL., < fibrin + a building material, invented in the nineteenth century, used for the internal finishing of surfaces to replace plaster or boarding. Compare staff 2.

urine: sometimes associated with chyluria.

fibro-adenoma (fi'brō-ad-e-nō'mā), m.; pl. fibro-adenoma (fi'brō-ad'i-pōs), a. Composed of fibrous and fatty tissue.

fibro-angioma (fi'brō-an-ji-ō'mā), n.; pl. fibro-angiomata (-ma-tā). An angioma with a large admixture of fibrous tissue.

fibro-bronchitia (fi'brō-an-ji-ō'mā), n.; pl. fibro-fibro-angiomata (-ma-tā). An angioma with a large admixture of fibrous tissue.

fibro-bronchitia (fi'brō-an-ji-ō'mā), n.; pl. fibro-fibro

fibro-elastic (fi'brō-ē-las'tik), a. Containing white fibrous and elastic tissue.

fibroglioma (fi'brō-gli-ō'mä), n.; pl. fibrogliomata (-ma-tä). [NL., < L. fibra, fiber, + NL. glioma.] A mixed fibroma and glioma.

fibrolamellar (fi-brō-lam'e-lār), a. In mineral., a structure produced by the separating of a fibrous mineral or mineral aggregate into thin lamellæ. Geikie, Text-book of Geol., p. 105.

fibrolipoma (fi'brō-li-pō'mä), n.; pl. fibrolipomata (-ma-tä). [NL., < L. fibra, fiber, + Gr. λ/πος, fat, + -oma.] A mixed fatty and fibroid tumor.

fibrolitic (fi-brō-lit'ik), a. [fibrolite + -ic.]

Pertaining to, resembling, or characterized by the presence of fibrolite (sillimanite): applied to certain metamorphic rocks, such as gneiss

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fibromatosis (fi-brō-ma-tō'sis), n. [NL., <

fibroma(t-) + -osis.] The development of fibroid tumors.

fibromyitis (fi*bro-mi-i'tis). n. [NL., \langle L. fibra, fiber, + Gr. μig (μv -), muscle, + -itis.] Inflammation of a muscle with hyperplasia of the fibrous tissue.

fibromyxoma (fi"bro-mik-so'mä), n.; pl. fibromyzomata (-ma-tä). A tumor composed of fibrous and mucous elements.

fibromyxosarcoma (fī bro-mik'so-sar-ko'ma), n.; pl. fibromyxosarcomata (-ma-ta). A myxosarcoma containing much fibrous tissue.

fibroneuroma (fī"bro-nū-ro'mā), n.; pl. fibroneuromata (-ma-tä). A fibrous tumor involving nerve structures.

fibronucleated (fī-bro-nū'klē-ā-ted), a. posed of fibers and having elongated nuclei in the interstices.

fibropapilloma (fi'brō-pap-i-lō'mä), n.; pl. fibropapillomata (-ma-tä). A tumor which contains the elements of both fibroma and papil-

during fibrocartilage.

fibropurulent (fī-brō-pū'rö-lent), a.

by pus with an admixture of fibrin in flakes.

fibrose (fi'bros), v. i.; pret. and pp. fibrosed,
ppr. fibrosing. [fibrose, a.] To form fibrous
tissue, as in cirrhosis or in cicatrization. Buck,
Med. Handbook, V. 561.

Med. Handbook, V. 561.

fibrospongian (fī-brō-spon'ji-an), a. and n.

I. a. Pertaining to or possessing the characters of the Fibrospongiæ.

II. n. One of the Fibrospongiæ.

fibrotic (fī-brot'ik), a. [fibrosis (-ot-) + -ic.]

Relating to fibrosis. Buck, Med. Handbook,
II. 99

fickle-midge (fik'l-mij), n. An American chironomid fly, Sciara inconstans, the larvæ of which breed in rich hothouse earth and sometimes damage planted seeds and the roots of plants.

piants.

Fich's law of diffusion, inspiration experiment. See law of *diffusion (a), *experiment. ficoid, a. IIt. n. A plant of the family Aizoaceæ, formerly called Ficoideæ (which see). Lindley.

idd, n.—Hand-fid, a pointed pin of hardwood, from 14 to 20 inches long, used to open the strands of a rope in splicing. A somewhat longer metallic pin of this sort is called a marlinespike. [Naut.]

of ware that have been dipped in liquid glaze are placed to drain.—5. A piece of wood by which the guy-ropes of a tennis-net are stretched to keep them taut.—Corn-stalk fiddle.

fiddle-back (fid'l-bak), n. An Australian scarabæid beetle, Schizorrhina australasiæ.
[Australia.] An Australian

[Australia.]
fiddle-beetle (fid'l-bē'tl), n. A large carabid
beetle, Damaster blaptoides, which occurs in
Japan and other oriental regions, and which,

that are fiddle-shaped: as, fiddle-headed serving spoons; fiddle-headed forks.

fiddler, n. 5. A fish, Trygonorhina fasciata, a member of the family Rhinobatidæ. [Aus-

tralia. 1

fiddle-rack (fid'l-rak), n. Naut. Same as fiddle, n., 2.

fiddler-fish (fid'lèr-fish), n. A fish, Rhinobatus percellus, of the family Rhinobatidæ.

fiddle-slide (fid'l-slid), n. A slide in the compound-rest of an engine-lathe for setting the tool to turn a taper.
fiddley (fid'li), n.
[Also fiddly, fidley; prob. a nautical use of stidly of the fiddly of the f

of *fiddly, adj. from fiddle, in allusion to the grating.] Naut., the iron framework or cover forming a hatch on deck over the engine- or fire-room of a steamer. Jour. Brit. Inst. Electr. Engin., 1899-1900, p. 574.

fiddling-stone (fid'

ling - ston), n. A small whetstone. Modern Amer. Tanning, p.

a. fiddley.

fideicommiss (fid"ē-ī-ko-mis'), n. In civil law,

same as *fideicommissum.

fideicommissary (fid'ē-ī-kom'i-sā-ri), n.; pl.
fideicommissuries (-riz). In civil law, the beneficiary of a fideicommissum.

ideicommissor (fid'ē-ī-ko-mis'or), n. In civil law, the one by whom a fideicommissum was made.

fideicommissum (fid'ē-ī-ko-mis'um), n. [L. fidei commissum, a thing given in trust.] In civil law, a trust. It originated in a devise by which property was left to one who was to use it for the benefit of, or give it to, another who was incapable of taking it by the will. It is said to be the origin of the trusts and uses of the common law. of the common law

fidejussory (fi-dē-jus'ō-ri), a. Of or per-

taining to a fidejussion.

fideos (fē-dā'ōs), n. [Sp. fideos, vermicelli.]

In Porto Rico, a species of dodder, Cuscuta Americana, which in places covers masses of vegetation with its yellow, thread-like, twining stems

fid-hook (fid'hùk), n. A slender, flat hook used to keep another hook from

hook used to keep another hook from slipping on a chain.

fidibus (fid'i-bus), n. [G., origin unknown. The form is like that of L. fidibus, dat. and abl. pl. of fides, a lyre, or of fides, faith.] A spill or lighter; a kindler; a match.

Fid-hook fidley, n. See *fiddley.

fiducial, a. 4. Relating to or characterized by the belief in supernatural powers.

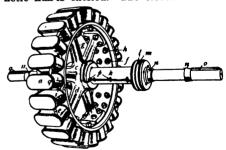
The ceremonies of the folk like those of other primitive

The ceremonies of the folk, like those of other primitive peoples, are primarily fiducial, and involve representation, or even personation, of the deified potencies forming the tribal pantheon.

J. W. Powell, Smithsonian Rep., 1900, p. 62.

Fiducial points, in thermom., the melting-point of ice, called the ice-point, and the boiling-point of water under a barometric pressure of 760 millimeters, called the steam-

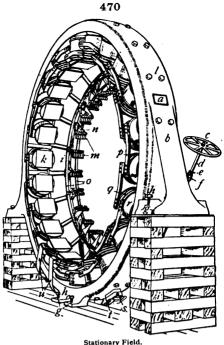
field. n. 13. Specifically, in electric machines, that part of the structure in which the mag-netic flux is excited. The electrical or me-



Revolving Field. a, pole-piece: b, field-ring; c, hub of spider; d, spokes of spider; c, field connections; f, pole-piece bolt: g, field-leads; h, nut for pole-piece bolt: i, field-winding; k, shaft; f, field-ring i m, oil-deflector; o, key; p, field-lead fastener;

chanical power is produced by rotation of the

armature in the magnetic field or of the magnetic field in the armature. See cuts under *armature.—15. In math., same as *domain, *armature.—15. In math., same as *domain, same as *domain



stationary Field.

a, name-plate; b, magnet-frame; c, hand-wheel; d, hand-wheel shaft; c, hand-wheel shaft-collar; f, fulcrum-pin; g, foot; h, holding-down bolt; i, brush-holder yoke; h, pole-face; l, pole-piece bolts; m, brushes; n, stud-support; o, bus-ring; p, series-connection bars; q, series windings; r, shunt windings; s, connection-board; l, terminal; m, field-leads.

bolts: m, brushes: n, stud-support: o, bus-ring: n, series-connection board: n, terminal: m, seled-leads of force, the space throughout which the attractive or repellent action of a mase or system is manifested. A field of force may be regarded as a system of equipotential surfaces and lines of force, by means of which the distribution of potentials and intensities is indicated.—Field of inattention, in psychol., the range of consciousness that is the characterized by obscurity of the perceptual or ideational processes of the moment; the background of consciousness; the contents of consciousness apart from those conscious processes that represent the object of attention.—Field of smell, in psychol., the range of space from which we receive olfactory stimuli that are effective for sensation.

E. B. Titchener, Exper. Psychol., I. 73.—Field of a lens, of touch. See *lens, *touch.—Flatness of field. See *fatness.—Galois field. Same as Galois field. See *magnetic *ctrcuit, *motor.—Multipolar field. See magnetic *ctrcuit, *motor.—Multipolar field. See magnetic field of a motor or generator having more than two poles.—Old field growth. See volunteer *growth.—Point field, in projective geom., the \$\pi\$ polyphase currents.

—Relative field. Same as *association area.—Rotary field, in elect., a magnetic field in which the lines of force have a motion of rotation. The term is usually applied to field a projective geom., the \$\pi\$ psychological psychological field.

The term is usually applied to field, in elect., a magnetic field of on projective geom.

The term is usually applied to field in which the lines of force have a motion of rotation. The term is usually applied to field projective geom., the \$\pi\$ straights on a plane.—Stray field, in elect., that portion of the electrostatic field.

The projective geom., the \$\pi\$ straights on a plane.—Stray field, in elect., that portion of the electrostatic field.

The projective geom., the \$\pi\$ straights on a plane.—Stray field, in elect., a field of force is to be measured

field-company (föld'kum'pa-ni), n. A company of engineers in the British army, equipped as pioneers and pontoniers for field service.

field-glass, n.—Prismatic field-glass. See prismatic

field-gun, n.—Ehrhardt field-gun, a field-gun designed for long recoil (about four feet) on its carriage. The carriage is so constructed that after two or three rounds it takes a nearly fixed position and hence permits

rounds it takes a neary fixed position and field permits very rapid firing.

field-hockey (fēld'hok"i), n. An outdoor game played by two opposing teams or sides who endeavor to drive the ball toward and into the opponents' goal with clubs curved at one end.

Also shinny, shinty, and bandy.

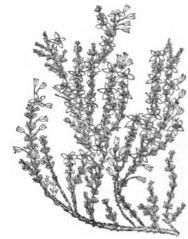
fieldman (feld'man), n.; pl. fieldmen (-men).

A man employed in the field, as a member of a field-party; also, a traveling representative of an enterprise or an undertaking: distinguished from one employed indoors.

The fieldmen of the Geological Survey have been the pioneer surveyors of the natural features of the vast regions which constitute half the continent.

Sci. Amer. Sup., Jan. 31, 1903, p. 22,64.

field-music (fēld'mū'zik), n. A military band of any size accompanying a body of soldiers, field-pine (fēld'pin), n. A small heath-like herb, Hudsonia ericoides, of the rock-rose



Field-pine (Hudsonia ericoides). About one half natural size. from Britton and Brown's "Illustrated Flora of the Northern ates and Canada.")

family, found near the Atlantic coast from Nova Scotia to Virginia.

field-pole (fēld'pol), n. In elect., the magnetic pole of the field of a generator or motor.

field-rheostat (fēld'rē'ō-stat), n. A rheostat or adjustable resistance used for the control and reculation of the magnetic field of an and regulation of the magnetic field of an electric generator or motor.

field-roller (feld'ro'ler), n. A land-roll

(which see).

field-salad (fēld'sal'ad), n. Same as corn-

field-spool (fēld'spöl), n. A spool or bobbin on the field-magnet of an electric generator, motor, or other device, upon which the field-

field-trash (föld trash), n. In the British West Indies, the tops and leaves of the sugarcane, which are removed in the field and generally serve for feeding stock or for manure. See cane-trash, 1.

The refuse, or macerated rind of the cane (which is called cane-trash in contradistinction to field-trash)... serves for fuel to boil the liquor.

B. Edwards, Hist. British Colonies in W. L, IL 262.

field-troop (feld'trop), n. A company of pioneers and sappers of the British Royal Engi-

field-wormwood (fēld'werm'wud), n. See

pany of engineers in the British army,
as pioneers and pontoniers for field service.

field-cornetcy (fēld'kôr'net-si), n. The office
or rank of field-cornet. [South Africa.]
field-cress (fēld'kres), n. Same as cove-cress.
field-derrick (fēld'der'ik), n. An oil-well derrick See *derrick. 2.

field-distortion (fēld'dis-tôr'shon), n. The
twisting, bending or displacement in any way
of the lines of an electrostatic or magnetic
field or of any field of force.

field-geologist (fēld'jē-ol'ō-jist), n. A geologist who works in the field, as distinguished from one who is confined to a laboratory or library.

field-geology (fēld'jē-ol'ō-ji), n. Geological
field-cress (fēld'kres), n. An anderican
carabid beetle, Calosoma calidum, dark in
color, with reddish or copper-colored pits on
carabid beetle, Calosoma calidum, dark in
color, with reddish or copper-colored pits on
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fife, n. 2. In organ-building, a piccolo stop. fifteen, n.—Half fifteen. See *half.

fifth. I. a.—Fifth quarter. See *quarter1.

II. n.—Circle of fifths. See circle of keys, under

II. n.—Circle of fifths. See circle of keys, under circle.

fig2, n. 9. In soap-making, same as figging.—Barbary fig, the Indian fig or prickly-pear, Opuntia Opuntia.—Bure fig, an Australian tree, Elseoarpus grandis, bearing globular blue fruits which resemble plums and are eaten by children and aboriginals. It yields a soft, easily worked wood and a bark rich in tannin. Called also calhun and Brisbane quandong.—Cape fig. Same as Hottentot fig (which see, under fig2).—Clustered fig, in Australia, a large tree, Ficus glomerata, native to India, Malaysia, and Australia, the fruit of which is of a light red color when ripe and hangs in clusters along the trunk and highest branches. It is eaten by the aborigines. Its wood is soft, coarse, light, and not durable.—Fig wax, wine. See *wcaz3, *wine.—Goat-fig. Same as caprify.—Golden fig, Ficus aurea, a tree of southern Florida, the Keys, and the Bahama Islanda. At first it is parasitic on the trunks of other trees, but later sends down aërial roots which coalesce on reaching the ground and produce large trunks from 3 to 4 feet in diameter, the growth of ad-

the ground and produce large trunks from 3 to 4 feet in diameter, the growth of additional roots from the branches serving to propagate the trees over large areas after the manner of the banian. See banian? (with cut).—Gular fig. in India, same as clustered *fig.—Horse-fig, Mesembryanthem um edule. Also called sour fig.—Indian fig. (b) The fruit of the saguaro, Cereus giganteus.—Moreton Bay fig. Ficus macrophylia, a handsome evergreen tree, much used as an ornamental tree in streets and gardens in Australia, especially in Sydney and Adelaide. Its fruits are not edible.—Mulberry-ig, the sycamore-fig. See eyeamore, 1.—Poplar-leaf fig. Ficus iawigata. See fig?, 1.—Frickly fig. Same as biusberry-*ash.—Purple fig. in the United States, a cultivated form of Ficus Carica; in Australia, Ficus scabra, a large tree yielding a brittle, spongy, useless wood, and small, black, edible fruits.—Ribbed fig. in Queensland, Ficus pleurocarpa. It yields a light, soft, elastic wood.—Rough-leaved fig. same as the Australian purple *fig.—Rusty fig. the Port Jackson fig. Ficus rubiginosa. It yields soft, brittle, spongy wood, sometimes used for packing-casea.—Sour fig. Same as horse-*fig.—Thorny fig. Mesembryanthemum spinosum, a plant of the Cape region of Africa, the flowering branches of which harden into sharp contrast with the purple-flowered M. forbundum, which yields excellent pasturage and is so succulent that cattle feeding upon it require little water.—Umbar fig, in India, same as colustered *fig.—Wille fig. Same as fourbelamina. It is a medium-sized tree, often epiphytic, and yields a mottled, gray wood.

fig. An abbreviation (b) of figurative or of figuratively.

fig. An abbreviation (b) of figurative or of figu-

ratively.

fig-bar (fig'bar), n. A device attached to a panning-machine to work semi-soft dough. The dough is pressed from a box by means of fine corrugated rollers and falls upon the apron of the panning-machine in long strips, where it is cut to any desired length. The box is built with three compartments, so that three different doughs or two doughs and a jelly can be run at the same time.

fig-eater, n. 3. A local Australian name of a small passerine bird of the genus Zosterops.

Also termed grape-cater.

fighting-top (fi'ting-top'), n. In a man-of-war, a platform, generally circular in shape, on or near the top of a mast, and provided with rapid-fire guns of small caliber and with accommodations for ridemen. It is generally reached the cladder incide the believe that the statement of t by a ladder inside the hollow steel mast. Also

by a ladder inside the hollow steel mast. Also called military top.
fig-insect (fig'in'sekt), n. Any insect of the chalcidoid family Agaonidæ, which inhabits figs, or anyl one of the numerous parasites of the insects of this family; specifically, Blastophaga grossorum, which fertilizes the Smyrna fig of commerce. See *Blastophaga, with cut. fig-marigoid (fig'mar'i-gōld), n. See marigoid and Meyembryonathemum.

and Mesembryanthemum.

fig-moth (fig-môth), n. A cosmopolitan phycitid moth, Ephestia cautella, whose larva lives in dried figs, nuts, cacao-beans, flaxseed meal, dried currants, and other stored products. Also called *dried-currant moth*.

fig-paste (fig'past), n. 1. A confection of figs; a national sweetmeat of Turkey and Greece. -2. A pink or white confection consisting of squares of a semi-transparent sweetish paste dusted with fine white sugar.

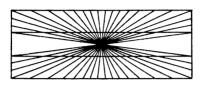
Fig-tree disease. See *disease.

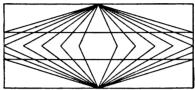
figuline, n. II. a. Of or pertaining to a potter or pottery: as, figuline ware. See figuline rustique, under figuline.
figurative, a. 5. In geom., at infinity.

On each straight is one and only one point 'at infinity,' or figurative point.

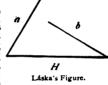
Merriman and Woodward, Higher Mathematics, p. 73.

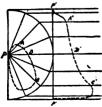
Figurative point, straight. See *point 1, *straight1. figure, n. 18. In ornamental woodwork, the grain of the wood, especially such grain when of unusual richness and when used with special care as a part of the design.—19. pl. The highest division of the lowest grade in the classical course in a Jesuit school. [Eng.]—Accompaniment, achromatic figure. See **accompaniment, **ackromatic.—Hering's and Wundt's figures, in psychol., figures embodying a variable optical illusion





Hering's and Wundt's Figures.





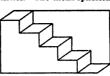
of direction. The horizontal lines of the figures are really parallel, but appear curved. The figures were published by E. Hering in 1861 and by W. Wundt in 1898.—

I. Läska's figure, a simple geometrical diagram which consists of two or morie straight lines of equal length, a and b, making different angles with the horizontal base-line H. It serves to illustrate certain illusions of extent and perspective.—

I. Lichtenberg's figures, patterns upon a powder-strewn insulating surface which are produced by electrostatic action, as when the spark or brush from a positively charged conductor is received upon an ebonic surface covered with powdered sulphur for red lead; so called from G. C. Lichtenberg, who in 1778 described such figures and the method of obtaining them.— Iffilier-Lyer figure, in psychol., a figure embodying a variable optical illusion of extent. Two vertical or horizontal lines of the same length are supplied with oblique end-pleces, converging in the one case and diverging in the other. The line with the diverging end-pleces appears the longer. This illusion, also termed the arrow-head white chess-board squares published by F. Müller-Lyer in 1889.— Minsterberg's figure, in psychol., a figure embodying a variable optical illusion of direction. Two vertical rows of black and white chess-board squares published by F. Müller-Lyer in 1889.— Minsterberg's figure, in psychol., a figure are laid edge to edge so figure. In psychol., a figure in projective secondary of the same plane.— Pogeendorff's figure, in psychol., a figure in projective geome, a range, a figure in projective geome, a range, a figure, in projective geome, a range, a figure in projec the approximate graphical determination of the mean spherical intensity of a source of light where the distribution of the light about a vertical flight where the distribution of the light about a vertical state in which the abscisses are the intensities of light measured at varying angles with the horizontal plane through the source, and the ordinates are the sines of the corresponding angles. The curve part of the corresponding angles are the sential structures of all protoplasm.

The corresponding angles are the sential structures of all protoplasm.

P for which the polar curve PABCP indicates the vertical distribution of light intensities. The mean spherical intensity is measured by one half the area included by the Rousseau figure, Schroeder's stair figure, Schroeder's stair figure, in psychol., a figure which embodies an optical illusion of reversible perspective. The figure may be seen, by change of fixation, either as a flight of stairs, or as the under side of such a flight (or a piece of overhanging masonry). The illusion was published by H. Schroeder in 1858.—Vertex of a solid figure, a point of a figure where three or more of its faces intersect.—Zöllner's figure, in psychol., a figure which embodies a variable opti-





Zöllner's Figure.

cal illusion of direction. The parallel verticals of the figure appear to converge and diverge under the influence of the oblique cross-pieces. The illusion was described by F. Zöllner in 1860. Also Zöllner's lines.

figure-painting (fig'ūr-pān'ting), n. Painting which is concerned especially with the dramatic or decorative use of the human figure. figure-skating (fig'ūr-skā'ting), n. Fancy skating in which figures of various kinds are described on the ice by the skater. figurette (fig-ūr-ret'), n. A small figure. See figure-wearing (fig'ūr-wā'ring).

figure-weaving (fig'ür-wē'ving), n. The weaving of fancy designs.
figuring, n. 3. The adding of figures, as to a

drawing. In architectural and engineering work the drawings, however accurately made to scale, are covered with the dimensions in Arabic figures. Figuring includes also the dotted lines and the little arrow-heads which mark the dimensions figured.

fig-wasp (fig'wosp), n. The agaonid insect, Blustophaga grossorum. See *fig-insect.

The introduction into California, by the United States Department of Agriculture, of the blastophaga or figuresphas fairly passed the experimental stages, as is well proved by the largely increased production of Smyrma figs at Fresno, in that State, where a colony of this useful insect has been established.

Yearbook U. S. Dept. Agr., 1901, p. 673.

fig-worm (fig'werm), n. The larva of the *fig-moth (which see).

F. I. Inst. An abbreviation of Fellow of the Imperial Institute.

F. I. J. An abbreviation of Fellow of the Institute of Journalists.

fill3, v. and n. A simplified spelling of fill.
filament, n. 6. In geometrical topics, a movable object which at any one instant, or indivisible determination of time, is at every part of a line. During a lapse of time a filament is restricted to being in some surface, which it is said to appear to 7. A long thread it is said to generate.—7. A long thread-like bacterial

like bacterial growth. — Linin flament, in cytol., a delicate thread or network of linin apread through the cell - nucleus. — Seminal flament, a spermatozoon.

filanders, n. and v. A simplified spelling of philander.

filanthropic, filanthropist, etc. Simplified



Filaree (Erodium cicutaris One third natural size.

fornia, either of two species of stork's-bill, Erodium cicutarium and E. moschatum; alfilerilla.—Musky filaree, Erodium moschatum, the courser of the species named above. Its foliage has a musky odor, especially when wilted. Also called musk-clover and sometimes green-stemmed filaree.—Redstemmed filaree. Same as alfilerilla.

Filarial periodicity. See *periodicity. filariasis (fi-lā-ri-ā'sis), n. [NL., < Filaria + -aṣis.] Presence of Filaria in the blood-vessels and lymph-vessels: the underlying cause of elephantiasis.

In certain tropical countries a disease known as filariasis, which somewhat resembles certain forms of leprosy, is transferred among human beings by certain mosquitoes. L. O. Howard, in Yearbook U. S. Dept. Agr., 1901, p. 190.

gous disease, due to Phyllactinia suffulta, which attacks the leaves of filberts.

filch. n. 3. One who filches or is given to filching; a filcher.

A simplified spelling of filled.

fileing; a filcher.

fild², pp. A simplified spelling of filled.

file¹, n.—Lateral file, a small steel file set in a metallic frame and adjustable laterally or otherwise, used by dentists in spacing teeth.—Molar file, a small file formerly used by dentists in filing molar teeth: now superseded by the carborundum wheel.—Separating file, a file formerly used by the tearborundum disks.

file³, n. 11. An individual soldier.

But the poor file who has to carry it, as well as his gun and various other accoutrements; how does it appeal to him? Med. Record, Feb. 7, 1903, p. 227.

Blank file, in a two-rank formation, a file consisting only of a soldier in the front rank.—Open file, in chess, a file on which there are neither pieces nor pawns. A player may obtain possession or command of such an open file ('take the open file') by playing his queen or rook on any of its squares.—Right by file, a movement, in drill, in which a column in single file is formed from a column of twos or squads.

twos or squads.

File-cutters' disease. See *disease.
filer3 (fi'ler), n. [file2 + -cr1.] One who de-

[The Chinese] eate their meate with two sticks of Ivory, Ebony, or the like: not touching their meat with their hands, and therefore no great filers of linnen.

P. Heylyn, MIKPOKOZMOZ, ed. 1633, p. 680.

file-stripper (fil'strip"er), n. One who draw-files or finishes the blanks for files, either by hand or in a machine, preparatory to cutting the teeth.

Filet lace. See *lace.

filharmonic, a. A simplified spelling of philharmonic.

harmonic.

filiation, n. 5. An individual or group of individuals derived from one source or parent.

filibranch (fil'i-brangk), a. and n. [NL. filibranchius, < L. filim, thread, + branchiæ, gills.]

I. a. Having long gills formed of tubular filaments, as certain bivalve mollusks; filibranchiate.

II. n. A bivalve mollusk of the order Filibranchiets.

dows.

filipina (fil-i-pē'nš), n.; pl. Filipinas (-äz).

[Sp., fem. of Filipino, Filipino.] A native filipino, filipino, filipino, filipino, filipino, Filipinas, Philippine, Sp. Islas Filipino, Felipe, Philip.] A native of the Philippine Islands; or less nurs Spanish descent. Also increased and the properties of the proper

branchiata

Filibranchia (fil-i-brang'ki-ä), n. pl. [NL.]
Same as *Filibranchiata.

Same as *Filtbranchiata.

Filibranchiata (fil-i-brang-ki-ā'tā), n. pl.

[NL.] An erder of bivalve mollušks. They have the gills in the form of long filaments that hang down into the mantle cavity, are bent back upon themselves in the form of a V, and may or may not be connected by interfilamentary ciliated junctions. The order includes the families Anomiidæ, Aradæ, Trigoniidæ, and Mytilidæ.

and Mytilidæ.

filibranchiate (fil-i-brang'ki-āt), a. [NL. filibranchiate), fil. filum, a thread, + branchiæ, gills: see branchiate.] Having, as some pelecypod mollusks, the plates of the gills narrow, filistatidæ.

Roy. Soc. (London), ser. B, 1903, p. 178.

filicauline (fil-i-kâ'lin), a. [L. filum, thread, + caulis, stem, + -ine¹.] Having a thread-like

fine wire into an aneurism with the design of inducing coagulation of blood within the sac.

filistatid (fi-lis'ta-tid), n. A spider of the family Filistatidæ.

Noting an acid. a glucoside tannin obtained from the rhizome of the male fern.

filite (fi'lit), n. [L. filum, thread, + -itc².]

An explosive, a variety of smokeless powder, stem.

[A reduction of alfilerilla.] In Cali- filicic (fi-lis'ik), a. [L. filix(filic-), fern, +-ic.] Derived from or pertaining to ferns.—Filicic acid, a crystalline compound, C₁₄H₁₆O₅, contained in the rhizome of the common male fern, Dryopteris Filixmas. To it the extract chiefly owes its therapeutic value as an anthelmintic.

filicide¹ (fil'i-sīd), n. [L. filius, son, or filia, daughter, +-cida, < cædere, kill.] One who kills his or her son or daughter.

filicide² (fil'1-sid), n. [L. filius, son, or filia, daughter, + -cidium, < cædere, kill.] The killing of one's son or one's daughter.

filicin (fil'i-sin), n. [L. filix (filic-), fern, +-in².]
One of the active vermifuge principles found in the rhizome of the male fern.

filicinean (fil-i-sin'é an), a. Belonging or re-lated to the Filicineæ or Filicales; fern-like.

the filings or other conducting particles upon which its action depends are placed. filing-machine (fi'ling-ma-shen'), n. A power-machine for filing metals, resembling in general plan a scroll-saw in which the vertical eral plan a scroll-saw in which the vertical reciprocating saw is replaced by a file. The work to be filed is placed upon a table and is fed to the file by hand. Files of any shape or size can be used in the machine, and by tilting the table the work can be fed to the file at any angle. Filing-machines for sharpening cotton-gin saws employ horizontal reciprocating files with an automatic feed-motion which presents one tooth of the saw at a time to the file and controls ine number of strokes of the file upon each saw-tooth.

filio-pietistic (fil"i-\$-pi-e-tis'tik). a. [Irreg. adj. from filial piety.] Relating or pertaining to filial piety. [Pare.]

He has set . . . in its true light the theocracy which the Puritar's founded and maintained in Massachusetts. As long as that theocracy lasted men dared not speak the truth about it; since it decayed, orators and historians, indulging in what Mr. Adams calls "fito-pretistic cant," have praised the Puritans for those qualities which they have condemned in other bigots.

Harvard Graduates Magazine, March, 1894, p. 439.

Filipendula (fil-i-pen'dū-lä), n. [NL. (Adanson, 1763, adopted from Tournefort, 1700), \
L. filum, thread, + pendulus, hanging. The allusion is to the tubers, connected by the rootstocks as if upon threads.] A genus of plants stocks as if upon threads.] A genus of plants of the family Rosace. They are perennial herbs, which have flowers similar to those of Spiræa, but with about 10 pistils ripening into dry, one-seeded, indehiscent fruits. There are about 9 species, natives of the north temperate zone. Some are familiar garden plants, as Filipendula Filipendula (Spiræa Filipendula of Linnæus), the meadow-sweet, and F. Ulmaria, the queen-of-the-meadows, both white-flowered, and F. rubra (Ulmaria rubra of Hill), the queen-of-the-prairie, with pink flowers. See queen-of-the-prairie and queen-of-the-meadows.

more or less pure Spanish descent. Also incorrectly *Philippino*.

filippic, n. A simplified spelling of *philippic*.

Filippi's gland. See *gland.

filippo (fi-lip'o), n. [It.] The silver testone of Milan issued under Philip III. of Spain, and continued by his successors.

filipuncture (fil-i-pungk'tūr), n. [L. filum, wire, + punctura, puncture.] Introduction of fine wire into an aneurism with the design of

An explosive, a variety of smokeless powder, fillet-strap (fil'et-strap), n. In a harness, a largely produced at the Italian government strap which passes over a horse's rump and

powder-works, the same in composition as

powder-works, the same in composition as ballistite, but formed into slender cords instead of into cubical grains. See ballistite.

Filix (fil'iks), n. [NL. (Adanson, 1763), (L. filix, a fern.] A genus of polypodiaceous ferns, the equivalent of Cystopteris (Bernhardi, 1806). The type of the genus is F. bulbifera, the common bladder-fern of the United States and Conde See Contractorional Medium for and Canada. See Cystopteris and bladder-fern.

- Filix-mas, the male fern, Driopteris Filix-mas.

fill¹, v. t. 10. In poker, to draw cards which improve the hand: usually restricted to filling rour-card flushes or straights. Amer. Hoyle, Poker, p. 162.—11. To execute: as. to fill an order for goods.—12. To make up: as, to fill a prescription.—Filled soap. See *soap.

milicologist (fil-i-kol'ō-jist), n. [filicolog-y + -ist.] One versed in filicology; one engaged in the study of ferns.

Primare, obast, harl, tow, prepared for the processes of manufacture, filator (fi-la'tor). n. [NL. 'filiutor, < 'silare, spin as thread: see file's, v.] The spinning apparatus of a silkworm, situated in the tubular spinneret.

All the taris 5-jointed.

All the t terial placed between two parallel members, as a timber placed between two steel I-beams to stiffen them and to enable them to act as one beam. (b) A hollow cylindrical pipe or spool through which a bolt is passed to fasten together two parallel beams or struts. The bolt in conjunction with the

filler prevents the two beams or struts from spreading apart and from moving too close together.

The noor framing consists of six sills, the four centre ones being six-inch "I" beams with wood fillers extending the entire length of car.

Elect. Rev., Sept. 11, 1904, p. 450.

filler3 (fi-lar'), n. [Hung. filder.] A current subsidary coin of Hungary, the hundredth part of a krona, equivalent to two tenths of a United States cent.

Mycenæan pottery, a narrow vase having a funnel-shaped bottom with a hole: used aptivities transfer liquids to

V
Filler-vase.
From "Annual of the British School at Athens.") filler-vase (fil'er-vas), n. In narrow-necked receptacles.

MININ

fillet, n., 5. (k) The rounded corner of a groove in a roll, or of a pattern for molding, etc.—

11. A loop-shaped instrument or bandage by means of which, when passed over a projecting part of the fetus, traction is made in cases of tedious or obstructed labor.— Fillet decussa-tion, a crossing of nerve-fibers over the median line in the medulla oblongata. These fibers lie above or dorsal to the decussation of the pyramids and form a bundle of longitudinally coursing fibers known as the fillet (lemnis-cus). See fillet, 9.—Fillet-flock. See the extract.

In its course towards the cerebrum, the fillet is said to receive accessions of fibers from the nuclei of the sensory cranial nerves, from little clumps of nerve cells scattered in its course—the 'fillet flock' of Roller.

Ferrier and Turner, in Philos. Trans. Roy. Soc. (London). [1894, ser. B. p. 760.

Interal fillet-tract, a tract which leaves the lateral fillet at the level of the motor nucleus of the fifth nerve, lying between the nucleus and the superior olivary body on the mesial side of the motor root. The tract may be traced to the distal end of the inferior olive, and gradually diminishing in size may be followed distinctly as far as the sixth thoracic segment. Ferrier and Turner. in Philos. Trans. Roy. Soc. (London), 1884, ser. B, p. 742—Scattered fillet fibers. See *fiber1.

fillet, v. t. 2. In cooking: (a) To form into or dress as a fillet, as a piece of beef. (b) To cut fillets from, as from a chicken or a fish.

filleting, n. 4. Mortar or plaster used to fill up a close joint where one surface meets another. Thus, at the beginning of a slated roof at the eaves mortar is used to close the cracks between the wall and the first rows of slate. Filleting in this sense is a poor substitute for flashing.

extends down to the shaft, to which it is con-

placed in the bottom, between the floor-tim-bers, such pieces are called *filling-timbers*.

filling-case (fil'ing-kās), n. In cotton-carding, a cylindrical can in which the sliver from a doubler is collected.

filling-timber (fil'ing-tim"ber), n. In ship-building, see *filling, 7.

film, n.—Surface film, the outer or boundary layer at the free surface of a body of liquid. The surface film be-haves in many respects like a stretched membrane, and by its action upon the inclosed liquid produces the so-called capillary effects.

filmogen (fil'mō-jen), n. [Irreg. < film + -o-+ -gen. -producing.] A solution of soluble nitrate of cellulose in acetone with addition of a small amount of castor-oil. It resembles flexible collodion, liquor adhæsivus. film-tension (film'ten'shon), n. The adhesive

power of a thin film of any material; the force required to separate two plates having between them a thin film of a given material.

filobacterium (fi"lō-bak-tē'ri-um), n.; pl. filo-bacteria (-ā). [NL., < L. filum, thread, + NL. bacterium, bacterium.] A bacterium having a filamentous or thread-like form.

filo-floss (fil-ō-flos'), n. Same as filoselle. filologer, filological, etc. Simplified spellings of philologer, etc.

oi pattotoger, etc.

filomel, n. A simplified spelling of philopena.
filopena, n. A simplified spelling of philopena.
filosity (fi-los'i-ti), n. [filose + -ity.] The character of producing many threads or shoots: applied to the habit of the potato of producing, under certain conditions, many thin, slender shoots.

siender shoots.

filosofer, filosofic, etc. Simplified spellings of philosopher, etc.

fils (fēs), n. [F., < OF. fils, fis, fiz, < L. filius, son: see filial.] Son: used in French as junior is used in English, père (father) being used for senior: as, 'Dumas fils,' 'Dumas the younger' or 'junior.'

filter! c. Bernett's file.

iliter1, n.—Berkefeld filter, a filter for sterilizing liquids. It consists of a hollow cylinder made from infusorial earth, the silicious skeletons of Diatomacese, inserted in a metallic case. Water and other liquids pass rapidly through the filtering medium while germs, animalculæ, or suspended matters remain on the surface. The cylinder can be easily removed for cleansing.—Bichromate ray filter. Same as *bichromate cell.—Dumont filter, a vessel containing coarsely granular animal charcoal or bone-black through which, in sugarrefining, colored syrup is slowly percolated and thereby becomes decolorized.—Gooch filter or crucible, in chem. analysis, a platinum crucible the bottom of which is perforated with fine holes and covered with a layer of asbestos in short fibers. The liquid to be filtered is poured into the crucible, and the solid matter left upon the felted asbestos may be washed free of all soluble substances, dried at any required temperature, and weighed in the same vessel, the weight of the crucible and asbestos in the dry state having been determined in advance.—Intermittent filter, an arrangement, usually consisting of a bed of sand, employed for the purification of sewage, thie liquid sewage being allowed to percolate for some hours and then to drain off, so that the interstices between the sand grains may become filled with air before the sewage is again turned on: in this way aërobic microbia multiply and oxidation of the decomposing organic matter aids largely in rendering it harmless. Sometimes called an aërated filter.—Kitasato filter, a filter resembling in construction the Pasteur filter, us for small size, used in laboratory work for the filtration of small quantities of fiuld.—Leaf filter, a contrivance used in sugar-refining, consisting of a series of rectangular bags of cotton cloth, each stretched over a wooden frame, the frames being placed parallel to each other, in the same trough. The syrup is run into this trough and filter into the bags, running off from each through a hole in t filter¹, n.—Berkefeld filter, a filter for sterilizing liquids. It consists of a hollow cylinder made from infusorial earth, the silicious skeletons of *Diatomacse*, inserted in a metallic case. Water and other liquids pass

filtering-plate (fil'ter-ing-plat), n. A perforated glass or porcelain plate with beveled edge, inserted in a funnel or in a bottomless edge, inserted in a funnel or crucible for filtering purposes

filtering-tube (fil'ter-ing-tub), n. A labora-

tory device of glass for filtering through glass

nected by a loop.

**Now of or assestor.

**Alling, n. 7. In wooden ship-building, a piece of filter-plate (fil'ter-plat), n. A plate or screen timber placed between the frames to fill up made of two perforated metal plates with the the spaces and give greater strength. When filtering material between them: used for filtering a liquid.

means of a filter-press, v. t. To filter by means of a filter-press. This mode of extracting a liquid from mixture with a solid is largely applied in a number of chemical industries, notably in sugar-making. S.P. Sadtler, Handbook of Indust. Chem., p. 133.

filtration, n.—Electrochemical filtration, in phys. chem., a term formerly used to denote electric osmose, or cataphoresis.

flum, n. 3. A hair-like process on the radius of the down-feathers in some birds.

fimicolous (fi-mik'ō-lus), a. [L. fimus, dung, + colere, inhabit, + -ous.] Living in dung. fin¹, n., 3. (g) The thin sheet of metal squeezed out between the collars of the rolls in a rolltrain.

fin. An abbreviation of the Latin ad finem, at

or to the end.

Fin. An abbreviation (a) of Finland; (b) of Finnish.

finca (fen'kä), n. [Sp., < fincar, also hincar, OSp. ficar, fix, attach: see fitch³, fichu.] Fixed property; real estate.

finch!, n.—Gutthroat finch, a bird-fanciers' name for one of the small African weaver-birds, Amadina fasciata: given on account of the red mark around the throat of the male.

find, v. i. 2. To discover scent or game: said of dogs in the field.

fin de siècle (fan'de syek'l). [F.] The end of the century: used attributively of anything that exhibits certain characteristics supposed to mark the closing years of the nineteenth century, regarded as a period of emancipation from the traditional social and moral order.

All these fin-de-siècle cases have . . . a common feature, . . . a contempt for traditional views of custom or morality. Such is the notion underlying the word. . . . It means a practical emancipation from traditional discipline which theoretically is still in force, . . . the end of an established order which for thousands of years has satisfied logic, fettered deprayity, and in every art matured something of beauty.

Mac Nordau (trans.) Degeneracy, p. 5.

finding, n.—Special finding, in law, same as special

finding-circles (fin'ding-ser'klz), n. pl. Circles attached to the mounting of an equatorial, and so placed as to be readily seen from the floor, which show the declination and hourangle to which the telescope is directed; also, circles on the tube of a transit instrument which show by the aid of an attached level, the altitude of the object to be observed.

the altitude of the object to be observed.

fine¹, n.—Fine for allenation, in feudal law, money
paid by a vassal to his superior for the privilege of transferring his feudatory.—Fine for endowment, in old

Eng. law, a fine required to be paid to the lord by the
widow of a vassal as a condition of receiving dower in her
husband's lands.—Fresh fine, in old Eng. law, a fine
levied within a year. See to levy a fine, under levy.—
Joint fine, in old Eng. law, a fine or amercement that
might be imposed upon an entire community.

fine², a.—Fine blue. See *blue.

fine², v. t. 4. In ship-building, to reduce the
lateral dimensions of a vessel below the waterline.

nas ocen removes.
p. 381.
fineness, n.—Coefficient of fineness. See *coefficient.
fines (finz), n. pl. [Pl. of fine2, a., 13, used as noun.] In metal., ore which is pulverized or in too small particles to be smelted in the ordinary.

nary way.

finesse, n. 4. In the fine arts, subtlety and delicacy in color or form.

Subtlety of the modelling, as seen particularly in the face of the Christ and the finesse of the drawing of the hands.

R. Fry, in Burlington Mag., III. 93.

finessi (fi-nes'ē), n. [Swahili fenessi, mfenessi, mfinessi, jackfruit.] In West Africa and Zanzibar, the name for Artocarpus integrifolia. See breadfruit and jack-tree.

inetop, n.—Alkali finetop. Same as *alkali-grass, 2. finger, n. 5. In a mechanical piano-player, a lever that strikes or depresses a key. See *piano-player.—6. A projecting pin or rod, straight, or slightly curved; specifically, a projecting curved wire which carries an electric current into the clearance-volume of an internal-combustion motor, so that at the proper time a spark may pass between its tip and

another terminal and fire the charge of explosive mixture. See internal-combustion engine, under engine. - 7. In flax-manuf., a small lot of fiber that has been treated at one operation in the scutching process.—Dead fingers. See **deed.—Hammer finger, a condition of permanent flexion of the middle joint of a finger, analogous to the deformity called hammer-toe.—Hippocratic ingers, a condition in which the finger-tips are clubbed with curved nails, seen in various chronic affections, especially of the heart and lungs.—Morse finger. Same as *telegraphers' cramp.—Peeled fingers, the rhizomes of the male fern from which the leaf-bases and chaff have been removed.—To give one the finger to give scanty recognition or encouragement; to act coldly or disappointingly toward one who had been led to expect assistance or friendship. finger-berry (fing 'gèr-ber"i), n. The American or high-bush blackberry, Rubus nigrobaccus. finger-fish (fing 'gèr-fish), n. As tarfish. finger-gage (fing 'gèr-gāj), n. An automatic device in a sheet-metal press, for holding the sheet-metal in position while it is being cut and allowing it to advance again a fixed distance and serving also as a gage in guiding the of fiber that has been treated at one operation

tance and serving also as a gage in guiding the

work to the press.
finger-grass, n. 2. Syntherisma serotina, a
native American grass with shorter, broader, and more hairy leaves than the common finger-

grass: found from Delaware found to Florida and westward tο Mississippi. Other species, as, S. filiformis and S. villosa, are also called finger-grass.—
3. Any species of the genus Chloris, which consists of handsome and sometimes useful grasses with radiating spikes like those of the crab-grass and crowfootgrass, rendered specially attractive by the long awns of the flowers. Several



flowers. Several are in ornamental cultivation, as the Australian C. truncata, called wind-mill-grass, bearded crousfoot, and stargards; C. verticillata, of Kansas, Texas, etc., also called wind-mill-grass; and C. elegans of the southwestern United States, called feather crousfoot. In the Bahamas the name is applied to C. Svartziana.

is applied to C. Sucartziana.

finger-lake (fing'gèr-lāk'), n. In geog., one of a group of lakes which diverge somewhat like the fingers of an open hand: such a group occurs in central New York.

finger-leaf (fing'ger-lef), n.
Potentilla Canadensis. The fivefinger,

fine², adv.—To sail fine (naut.), to sail close to the wind; sall so as to keep the luff or forward leach of the sail trembling.
fine-hair (fin'har), v. t. In leather-manuf., to remove (from a skin) the fine hair or down which is sometimes left after the coarser hair has been removed. C. T. Davis, Leather, p. 381.

Inger-machine (fing'gèr-ma-shēn'), n. A piece of gymnasium apparatus intended to exercise the muscles of the hand and forearm. It consists of small parallel bars which are held separate by weights and far enough apart to be grasped with the fingers extended, and then drawn together by an effort of the muscles of the hand and forearm. finger-parted (fing'gèr-par'ted), a. In bot., digitately parted.

made, as with ink or some other pigment, with the tip of a finger, so that its markings are recorded. These markings are individual in character and are permanent throughout life. They are used for purposes of identification according to a system devised by Francis Galton.

by Francis Gatton.

In June 1897 a resolution of the governor-general in council directed the adoption of the finger-print system throughout India, and its gradual substitution for the previously existing anthropometric system has since been carried out. Its use is not confined to the police department, but extends to all branches of public business.

Encyc. Brit., XXV. 469.

finger-stone (fing'ger-ston"), n. A popular

local name for belemnite.

finger-tip, n. 2. In archery, a tip of leather or other material worn upon a drawing-finger to other inaterial worn upon a trawing-inger to protect it from the friction of the bowstring. Tips are on two kinas: screw-tips, adjustable to any degree of tightness by a screw-bolt and nut; and knuckle tip, shaped so as to stick to the fingers when the arrow is loosed. See drawing-glove.

3. pl. On the coast of southern California, a plant of the stonecrop family, Stylophyllum edule, with tufted cylindrical leaves the size of a

lead-pencil. The Indians used the leaves as a salad. Parsons and Buck, Wild Flowers of California, p. 142.

finish, n. 5. In building, all those parts of the work which are not essential to the structure but are intended to give elegance of appearance or neatness within, or such smoothness of surface as makes it easily cleaned. Thus the interior face as makes it easily cleaned. Thus the interior emergency. The Sephardim (Spanish Jews) finish includes the woodwork of door trims, dades, and the like, the marble-work when put to similar uses, and salad. Parsons and Buck, Wild Flowers of California, p. 142.
finish, n. 5. In building, all those parts of the work which are not essential to the structure but are intended to give elegance of appearance or neatness within, or such smoothness of surface as makes it easily cleaned. Thus the interior finish includes the woodwork of door-trims, dades, and the like, the marble-work when put to similar uses, and mantelpieces, etc.—Brush finish, a finish for the surface of brass which is obtained by buffing it to a dull or 'old' brass finish; a finish for the surface of brass that makes the metal appear dull and old.—Cabinet finish. See *cabinet.—Dead finish, anything, such as an impenetrable thicket, an impassable place, or the like, which brings a traveler to a dead stop; also, the stop itself. (Australia.)—Grease finish, a dull mat finish on either gold or silver, generally produced by rubbing the metal with finely ground pumice mixed in oil.—Stone finish, a dull mat finish slightly coarser than the grease finish, produced by rubbing down silver, gold, or other metal with fiat smooth surfaces of pumice-stone.

finishing-rolls (fin'ish-ing-rōlz), n. pl. The rolls or a train of rolls in which a bar of metal is finished.

is finished.

finishing-school (fin'ish-ing-sköl), n. A school where the education of young ladies (chiefly) 'finished.'

in inhishing-tool, n. 2. In glass-manuf., an instrument, resembling a pair of forceps, used to shape the necks of bottles, lamp-chimneys, finishing-tool, n. etc. Also called borcellas, ponteglo, and pro-

etc. Also called borcellas, ponteglo, and procellas. See procellas.

Finite in its kind, having an end or boundary. A thing that can be limited by another of the same nature is said to be finite in its kind. For example, body is said to be finite because we always conceive a larger. So thought is limited by another thought.—Finite number, point. See *number, *point!.

finitesimal, a. [finite + -esimal, as in infinitesimal.] In math., distinguished by a finite ordinal.

ordinal.

finitude, n.—The axiom of finitude, in the terminology of Russell, the false assumption that a kind of quantity such that, given any one of the kind, there is a greater of the same kind, can have no finite limit. The class of fractions whose denominators exceed their numerators is an obvious instance of the falsity of the principle. Russell appears to call it an axiom derisvely.—Relative finitude, the being in a finite ratio to another magnitude.

fin-keel (fin'kel), n. A projection downward from the bottom of a sail-boat or yacht, in gen-



eral shape like the ventral fin of a fish. The fin-keel is usually made of metal, and acts as additional ballast, and being low down gives increased stability.

Finn. An abbreviation of Finnish.
Finno-Slav (fin-ō-slav'), n. A person of mixed
Finnish and Slavic descent. Keane, Ethnol.,

Finno-Slavonic (fin 'ō-sla-von'ik), a. Of mixed Finnish and Slavic descent; of or per-

mixed Finnish and Slavic descent; of or pertaining to the Finno-Slavs.

Finno-Tatar (fin-ō-tā'tār), a. 1. Of or pertaining to the group of languages usually called Ural-Altaic, or to the people who speak them. See Altaic.—2. In a somewhat more limited sense, relating to or including those peoples which comprise the western branch of the Ural-Altaic group. Ural-Altaic group, especially the Finns and Turks.

Finno-Turki (fin-ō-tèr'kē), n. The group of peoples which speak Finnic and Turkish languages. Also called Ural-Altaic. See Altaic. Finno-Turkish (fin-ō-tèr'kish), a. Of or pertaining to the Finns and Turks: same as Ural-Altaic. See Altaic.

Finno-Ugrian (fin-ō-ū'gri-an), a. Of or pertaining to that group of peoples which speak either Finnic or Ugrian languages.

Finno-Ugric (fin-ō-ū'grik), a. Same as *Finno-

Finnsko (fin'skō), n. [Norw. Finnsko, < Finn, Finn, + sko, shoe.] In Norway, a boot made of the skin of the legs of the reindeer buck steeped in a decoction of birch bark or tanned in tar-water. It is worn with the hair outside.

These finnesko . . . are a pre-eminently warm covering or the feet, and are very suitable for use on ski or snow-hoes. Nansen (trans.), First Crossing of Greenland, I. 48.

Fin. Sec. An abbreviation of Financial Secre-

still apply the term to their fixed contribu-tions for the synagogue. fiord-valley (fyôrd'val'i), n. A narrow, nearly parallel-walled valley occupied by an arm of the sea. J. Geikie, The Great Ice Age, p. 46. florino (fē-ō-rē'nō), n. [It.: see florin.] A Tuscan gold coin equal to about 27 United States cents: so called from the fact that it bore the fleur-de-lis, the arms of Florence.

States cents: so called from the fact that it bore the fleur-de-lis, the arms of Florence.

fir. n.—Algerian fir, a tall pyramidal species, Abies Numidica, native on high mountains in Algiers. It is hardy in France and England, and is attractive in ornamental cultivation.—Alpine fir, Abies lasiocarpa, a tall tree, 80-175 feet high and 2-5 feet in diameter, which occupies high mountain slopes and summits from Arizona to Alaska and eastward to Colorado and Idaho. It has dense foliage, small dark-purple cones, and light, soft wood of little value except for fuel. Also called balsam-fir, sublipine fir, and Oregon balsam-tree.—Amabilis fir. Same as lovely ***/rir.—Balsam-fir. (a) Abies balsamea. See Abies, fir, and balsam-tree. (b) The she-balsam or Fraser fir, Abies Fraseri, of the more southern Appalachian Mountains. (c) Same as alpine **/rir.—Balsam of fir. Same as Canada balsam.—Bristle-cone fir, Abies venusta, a large tree, 100-150 feet high and sometimes 3 feet in diameter, distinguished by the long awns of the bracts of its cones, which give them a bristly appearance. It is a rare tree, restricted to a small area of southern California on the slopes of the Santa Lucia Mountains in Monterey county. The under surface of the leaves is silvery white, for which reason it shares with several other firs the name of **ilver*fir.—Cephalonia and Greece. Also called Greek fir.—Crimean fir, Abies Nordmanniana, a native of the Crimea and western Caucasus, which has long cones the bracts of which are tipped with a conspicuous sharp point. Also called the Nordmann fir and Nordmann fir to the fir-balsam, the she-balsam or Fraser fir, Abies Fraseri, a small tree of the more southern Appalachian region, from southwestern Virginia to western



Fraser Fir (Abies Fraseri). (From Sargent's "Manual of the Trees of North America.")

North Carolina and eastern Tennessee. It has dense foliage and small cones with a rough surface, thus differing markedly from the more northern balsam-fir which it replaces. Also called balsam-fir and she-balsam. Grand, great California, or silver fir, the Oregon white fir, Abies grandis.—Greek fir. Same as Cephalonian *fir.—Indian fir, the mast-tree, Polyalthia longifolia. See mast-tree, 2, and *asoka, 2.—Lovely fir, Abies amabilis, one of the largest and most beautiful of western American trees, often attaining a height of 250 feet and a diameter of 6 feet. When growing in open situations it is clothed to near the ground with branches which sweep down in graceful curves and which are covered with reddish-brown or purple branchlets. The wood is light but hard and finegrained, and is valuable for the interior finish of buildings. The tree occupies high mountain slopes and benches in the Cascade and Coast ranges from British Columbia to Oregon; it has been introduced into parks in western Enrope. Also called amabilis fir, red fir, red silver fir, and white fir.—Lowland fir. Same as grand *fir.—Magnificent fir. Same as Shasta *fir.—Mexican fir. Same as sacred *fir.—Noble fir, Abies nobilis, a very large tree, sometimes attaining a height of 250 feet and a diameter of 8 feet, forming extensive forests in the Cascade range and Sisklyou Mountains at from 2,500 to 5,000 feet elevation. It has densely set short leaves and large oblong cones, the bracts broad with fimbriate margins and strong midribs produced into conspicuous tips. The wood is light but strong and rather fine-grained, and is used under the name of larch for the interior finish of buildings. Also called red fir.—Nordmann's silver fir. Same as Crimean *fir. Oregon white fir. Same as grand *fir.—Parasol fir.—See parasol-fir.—Pitch fir, Abies Pichta, a small tree of northeastern Russia and Siberia, extending to Kamchatka. Also called Siberian fir.—Pitch fir, Abies Pichta, a small tree of northeastern kasia and Siberia, extending to Kamchatka. Also called S

of 200 feet and a diameter of 10 feet, a native of the Cascade range and Sierra Nevada Mountains, common on Mount Shasta, reaching a maximum elevation of 10,000 feet. It has large oblong-cylindrical cones with smooth surfaces and short curving leaves. The wood is light and soft, not strong but durable, making coarse lumber. It is considerably planted in Europe and to some extent in the eastern United States as an ornamental tree. Also called red fix.—Sho-balsam fir. See balsam #xfix (b)—Siberian fir. Same as pitch #xfix—Silver fix, the name given to most firs which have the under surface of their leaves silvery white or glaucous: (a) Abies Picca. See silver fix, under silver. (b) Same as Algerian *xfix. (c) Same as bristle-come *xfix. (d) Same as grand *xfix. (e) Same as bristle-come *xfix. (d) Same as grand *xfix. (e) Same as bristle-come *xfix. (f) Abies Picchta, sometimes called Siberian silver fix. (f) Abies Pichta, sometimes called Siberian silver fix. See *king-pine, Abies Webbiana, often called Webb's silver fix. See *king-pine, under pine!.—Silver-fix leaf-discease. See *disease.—Spruco-fix, he Norway spruce, Picca Abies (which see, under spruce3).—Subalpine fix. Same as adaptine *xfix. (m) Abies concolor. I leaf-discease. See *Giecase.—Spruco-fix. Same as admired fix. (a) Abies concolor a large tree of the Rocky Mountains, extending westward to California, north to Oregon, and south to Mexico, attaining its maximum height of 250 feet in the Sierras. It is the only fix of the arid regions and Great Basin. The wood is light, soft, and coarse-grained, but is somewhat used for lumber. (b) Same as grand *xfix. (c) Same as lovely *xfix.

It. An abbreviation of firkin.

An abbreviation of firkin.

fire, n.—Automatic fire. Same as spontaneous combustion (which see, under combustion).—Electrical fire, a term used by Benjamin Franklin as synonymous with dectric fluid and frequently in the sense in which electric charge is used by modern writers.

There is no more electrical fire in a bottle after charging than before.

Franklin, New Experiments and Observations on Elec-

Greek fire. (b) A solution of phosphorus in carbon disulphid. When this is exposed to the air at ordinary temperature the solvent soon evaporates, and in a very short time the phosphorus, which is left behind in a finely divided condition, bursts into fiame. It has been proposed to use this solution in war in setting fire to ships, houses, etc., but it is not very effective, since the oxid of phosphorus formed in combustion coats over the wood or other less inflammable material, protecting it from the oxygen of the air, and so from the fire.—Red fire, a pyrotechnic mixture of readily combustible materials, one ingredient of which is strontium nitrate or chlorate, which causes the whole to burn with a vivid red light: much used for theatrical and out-of-door exhibitions, and in signaling. Thorpe, Dict. Applied Chem., III. 341.

fire, v. i. 7. In geol., to break out in flames or incandescent gases: said of volcances.

fire-altar (fir'ál'tár), n. An altar upon which burnt sacrifices were offered, as distinguished from one used for incense only. In some cases

burnt sacrifices were offered, as distinguished from one used for incense only. In some cases the fire-altar was built up of the remains of former burnt sacrifices: the most remarkable known instance of this was at Pergamon in Asia Minor.

firearm, n.—Automatic firearm. See *automatic fire-bag (fir'bag), n. A bag containing fire-mak ing implements such as are used by Indians. fire-bean (fir'ben), n. The scarlet runner, Phaseolus multiflorus.

fire-bird, n. 2. The vermilion flycatcher, Pyrocenhalus rubineus, one of the South American

rocephalus rubineus. one of the South American fire-crowned flycatchers, represented in the southwestern United States by the subspecies P. rubineus mexicanus. The full rounded crest and under parts of the male are of a brilliant scarlet, whence the name.

fire-blende (fir'blend), n. Same as pyrostilpnite. fire-blight (fir'blit), n. 1. See pear-blight, under blight.—2. A disease of flax and hops. fire-bolt (fir'bolt), n. A bolt of fire or flame: a

discharge of lightning such as sets fire to in-flammable terrestrial objects; any sever flash which appears to strike downward to the earth's surface

fire-boss (fir'bos), n. A mine official who examines the mine for gas and inspects safetylamps taken into the mine. Jour. Franklin

Inst., Aug., 1903, p. 106.

fire-bowl (fir bol), n. A large bowl-shaped utensil made by Japanese and Chinese potters for holding fire. See *hibachi and *koro².

the flat crown-sheet of which is stayed to the parallel boiler-shell, thus avoiding the necessity for using crown-

fire-brat (fir-brat), n. A thysanurous insect, Thermobia furnorum, of the family Lepismati-dæ; found in bake-houses, and supposed to be

fre-bug, n. 2. Same as cabbage-bug.
fre-bug, n. A West Indian shrub, Triopteris Jumaicensis, belonging to the family Malpighiaceæ: so called from the use of its leaves in the treatment of burns.

fire-cracker, n.—Ploral fire-cracker, vegetable fire-cracker, the crimson satin-flower, Brevoortia Ida-Maia. See *Brevoortia, 2.

hook at one end, used in pulling down buildings at a fire in order to save adjoining prop-

fire-cure (fir'kūr), v. t. To cure (tobacco) by means of open fires. After the tobacco has yellowed for a few days, hanging on scaffolds or in the barn, slow wood fires are kindled on the floor of the barn and maintained for four or five days. This method is used with 'dark export tobacco,' and imparts to it a creosotic flavor demanded by the export trade. See export *tobacco.,

Tobaccos that have been fire-cured, as the plug tobaccos, contain in most cases neither oxidase, peroxidase, nor catalase.

U. S. Dept. Agr., Rep. 65, p. 34.

2. A fire-proof door in a wall or fire-door, n. partition, designed to retard or prevent the spread of fire into or through a building. It is made of iron, or of wood covered with sheet-iron, and sometimes closes automatically, moving into place when the heat of a fire melts a fusible link.

fire-drill (fir'dril'), n. 1. A primitive instrument used in producing fire by friction, consisting of a pointed stick pressed into a hole in a piece of dry wood and rapidly twirled between the hands: later the twirling was done by means of a thong or bow.—2. The exercises and training given to a company of firemen, the crew of a ship, etc., to accustom them to the duties proper to each in case of fire, or the disciplinary drill given to school-children in school to insure calmness among them, and prevention of panic, in case of fire occurring in the school-buildings.

fire-drilling (fir'dril'ing), n. The process of obtaining fire by means of the fire-drill. fire-finch, n. 2. A name applied to various weaver birds (Ploceidæ) of the genus Pyromelana, on account of the brilliant red shown by the males in breeding plumage.

fire-fish (fir'fish), n. A name of species of fishes of the genus Pterois found in the East Indies. fire-flame (fir'flam), n. A fish, Cepola rubescens, of the family Cepolidæ; found in European waters.

fire-grass (fir'gras), n. The parsley-piert, Alnilla arvensis

fire-lane (fir'lan), n. Same as *fire-line, 1. fire-line (fir'lin), n. 1. In forestry, a strip kept clear of inflammable material as a protection against the spread of forest fire.—2. pl. The 'lines' or cordon established by the police around the scene of a fire, and at a safe distance from it, thus setting up a danger-line within which no one is allowed who is not connected with fighting the flames or salving the property

fire-on-the-mountain (fir'on-the-moun'tan), n. A euphorbiaceous annual plant of the warmer regions of America, Poinsettia heterophylla, having bright red floral bracts which in this species are toothed. Also called Mexican fire-plant.

fire-painting (fir'pan'ting), n. The action of the fire in bringing out certain iridescent effects in metallic luster-glazes by special treatment in the kiln. See the extract.

ment in the kiln. See the extract.

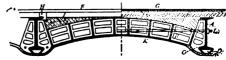
The biscuit ware is entirely covered with a glaze of a solid tint which, when exposed to the usual degree of heat in firing, would come from the kiln in a single lustreless color or valueless tone. By subjecting it to a peculiar fring, in a kiln especially designed for the purpose, a wonderful iridescence and variety of coloring is produced. So appropriately has this ware been named that if the finished product should be afterwards placed in an ordinary glost furnace, it will entirely lose its beautiful appearance, but if returned to the special kiln once more the Fire-Painting will again be restored in all its prismatic brilliancy. By this process Fire-Painted ware may be produced successfully in all colors and lustres.

E. A. Barber, Pottery and Porcelain of the U. S., p. 494.

fire-patrol (fir'pa-trol"), n. A salvage corps maintained by the insurance companies, and working with the fire-department of a city. Their business is to prevent looting at fires, and to protect goods or household stuff from damage by water with the tarpaulins, rubber sheets, etc., with which they are provided. They are also charged with the safe-keeping of the property until the insurance losses have been adverted. provided. They so of the property u justed and paid. [Chiefly U. S.] See salvage corps, under salvage

fire-pink (fir'pink), n. See pink².
fire-plant (fir'plant), n. Same as *fire-on-the-

fireproofing, n. 2. Any building material used to retard or prevent the destruction of a building by heat or flame. Such materials used in



A, steel beam; B, hollow brick, forming flat arch; C, hollow brick abutment for arch; D, tile, under beam; E, concrete filling; E, wood flooring; C, tile flooring; H, steel cleat; I, wood strip for flooring; D, cinder bedding under tile; K, plaster ceiling; L, stay-

hinder the spread of a fire and tend to render the building slow-burning. Among them are stone, marble, terracotta, brick, artificial stone, corrugated iron, and sheet-metals for rexterior walls, and slate, tiles, and sheet-metals for rooting. For interior walls, floors, and stairs, slate, marble, plain and ornamental brick, plasters, cements, reinforced concrete and mossic, wire lathing, metallic window-frames, sashes, doors, shutters, and trim, and wire glass are extensively used. For floors between steel beams, reinforced concrete, hollow brick and hollow tile, plaster, and cements are used, not only to build flat arches, but also to inclose and protect the beams and columns, piping, and electric wiring. Woven wire, grille-work, and expanded metals are also used for inclosing stair- and elevator-wells. With these materials a steel-frame building can be made fire-resistant to a high degree and safe against serious injury from the burning of the furniture and ordinary contents.

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fire-resisting (fir're-zis'ting), a. Fitted to resist the effects of fire: as, fire-resisting materials. [Suggested by the International Fireprevention Congress as a substitute for fireproof.] Engineering (London), July 24,1903, p.

fire-risk (fir'risk), n. 1. The risk of loss by fire.—2. The obligation to make good loss or damage by fire undertaken by a fire-insurance company. Hence—3. The property on which this risk is taken: as, a good *fire-risk*.

fire-stick, n. 3. pl. A pair of sticks used for lifting coals out of the fire, or for rearranging the burning fagots.

In the same plate are included a pair of wooden fire-icks or tongs [of the Tulare Indiana.] Smithsonian Rep. (Nat. Mus.), 1900, p. 180.

fire-stop (fir'stop), n. Same as fire-bridge.
fire-syringe (fir'sir'inj), n. 1. An instrument used by certain peoples of the East Indies to produce fire. It consists of a hollow cylinder of wood, bone, or metal, open at one end, and having a close-fitting piston by means of which the air in the cylinder can be suddenly compressed and thus a piece of tow or similar material at the bottom of the cylinder ignited.

The most interesting objects . . . from an ethnological point of view were a set of the fire-syringss (generally manufactured from bone or horn) which are still used in some up-country villages for the production of fire.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 418.

A device consisting of a cylinder and piston attached to a tinder-box. The tinder may be ignited by the heat generated in the compression of the air in the cylinder.

firetail. n. 3. An Australian name of two small weaver-birds, Ægintha temporalis, and

Zonæginthus bellus.
fire-test (fir'test), n. 1. The determination of the temperature at which kerosene or other hydrocarbon oil used for illumination on being gradually heated first gives off enough vapor to catch fire from a momentarily applied match or electric spark. Same as flash-test .- 2. The subjecting of pottery or porcelain to various degrees of heat in a kiln to ascertain its relative hardness or fire-resisting properties.

Indeed, fire-tests made by Prof. Isaac Broome, to whom I submitted specimens, show that the Tucker porcelain will stand a higher degree of heat than the Sevres ware.

E. A. Barber, Pottery and Porcelain of the U. S., p. 127.

fire-thorn (fir'thôrn), n. The pyracanth or evergreen thorn, Cotoneaster Pyracantha.

fire-top (fir'top), n. The great willow-herb or fireweed, Chamænerion angustifolium.

fire-walk (fir'wak), n. A ceremony of the Fi-jians in which a number of barefooted men walk over hot stones which fill a large circular

Among these notable accounts is one by Col. Gudgeon, British resident at Raratonga, describing the experiment by a man from Raiatea, and also a like account of the Fiji fire ceremony from Dr. T. M. Hocken, whose article is also quoted in Mr. Lang's paper on the "Fire Walk," in the Proceedings of the Society for Psychical Research, February, 1900. This extraordinary rite is also described by Mr. Fraser in the Golden Bough, and by others.

Sci. Amer. Sup., Feb. 14, 1903, p. 22677.

sc. Amer. Sup., Feb. 14, 1903, p. 22677.

fire-walking (fir'wâ'king), n. Same as *fire-walk. Athenæum, Feb. 13, 1904, p. 217.

fireweed, n. (e) The jimson-weed, Datura Stramonium; also, occasionally, D. Tatula. (f)
The wild lettuce, Lactuca Canadensis. (g) The golden ragwort, Senecio aureus.

fire-well (fir'wel), n. An emanation of inflammable gas from a natural vent.

In the second class of gas-springs we may group the emanations of carburetted hydrogen, which, when they take fire, are known as Fire-wells. Encyc. Brit., X. 251. fire-worm, n. 2. Same as blackhead *cran-

berry-worm.

Aring, n. 7. Same as *scorching, 3: applied firing, n. 7. Same as recorded especially to tobacco and corn.

During very rainy seasons, and in some kinds of unfa-vourable soil, the plant is subject to a malady called firing. Tatham, Cult. and Com. of Tobacco, p. 22.

portions of an otherwise non-fireproof building merely firing-head (fir'ing hed), n. A box or head hinder the spread of a fire and tend to render the build-containing a percussion can and a firing-pin. containing a percussion-cap and a firing-pin, fitted to an oil-well torpedo. After the torped in place at the bottom of the well, a small weight called a go-devil is dropped on the firing-head, which explodes the torpedo.

firing-pin (fir'ing-pin), n. That part of the breech-mechanism of a small arm or cannon which explodes the primer of the cartridge.

which explodes the primer of the cartriage.

firm, n.—Long firm, a swindler or a pack of swindler who, pretending to be in business in some particular line or lines, order goods, usually from a distance, to be sent to their pretended place of business, dispose of the goods at once for whatever they will bring, and disappear, leaving the bill unpaid, to repeat the swindle in some other place. [Colloq, Great Britain.]

fir-moss (fer'môs), n. The fir club-moss, Ly-copodium Selago. See *club-moss.

fir-rape (fer rap), n. 1. The pine-sap, Hypopitys Hypopithys.—2. The beech-drops, Leptannium Virginianum.

First aid, hand, officer, etc. See *aid1, etc. firstness, n. 2. In the phenomenology of C. S. Peirce, the mode of being of that which is Peirce, the mode of being of that which is whatever it is regardless of anything else. This is true only of qualities of feeling, such as red or scarlet, and of such qualities of a similar nature as we suppose things to possess. Thus, although hardness consists in resistance to being scratched by a second thing, yet our ordinary common-sense conception is that a hard body possesses in itself a quality which it retains although it never comes into contact with another, and that this quality, which it possesses regardless of anything else and would possess though all the rest of the universe never existed, is the cause of the difficulty of scratching it. The mode of being of such an internal quality is firstness. That which has firstness can have no parts, because the being of an object which has parts consists in the being of the parts, which are none of them the whole. Any analysis of the constituents of a quality is a description of something found to be true of whatever possesses that quality. But a quality of feeling, as it is in its mode of being as a quality, has no parts.

fiscalization (fis'ka-li-zā'shon), n. [Sp. fiscalizacion = Pg. fiscalizacio: as fiscalize + -ation.] The fiscal treatment of a matter.

It was also resolved, in view of the fact that they were interested in the development and fiscalization of the trade, to maintain the traditional regimen decreed in the royal letter of January 23, 1612.

Geog. Jour. (R. G. S.), XI. 188.

fiscalize (fis'ka-liz), v. t.; pret. and pp. fiscalized, ppr. fiscalizing. [Sp. Pg. fiscalisar: as fiscal + -ize.] To examine, manage, or regulate (a matter of business) in respect to its fiscal or revenue features.

fisetic (fi-set'ik), a. [G. *fisetisch, < fiset(holz), young fustic.] Of or pertaining to fustic.

—Fisetic acid, an incorrect name for fisetin.

young fustic.] Of or pertaining to fustic.—Fisetic acid, an incorrect name for fisetin.

sh1, n., 6. (b) The Southern Fish, Piscis Australis or Austrinus.—Atka fish, a fish of the genus Pleurogrammus, found about the island of Atka.—Electric fish, any of the fishes which have the power to give electric shocks, as several species of rays, the electric eel, and the electric catfish.—Foureyed fish, (a) A common name of fishes of the genus Anableps, found in the fresh waters of South America. Their eyes are completely divided by a horizontal partition into an upper and a lower portion; the lower part is popularly supposed to be for use in the water, the other in the air. See Anableps, with cut. (b) A name sometimes applied to fishes having occllated spots of color resembling auxiliary eyes.—Indian fish. (a) A name, in Jamaica, of Pomacanthus paru, of the family Checotontidæ. (b) Chænobryttus gulosus, one of the sunfishes found in fresh waters of the eastern United States.—Isinglass-fish, any fish, as the sturgeon, from which isinglass is made.—Jugular fish, a fish in which the ventral fins are inserted in advance of the pectoral fins.—San Pedro fish, the opah, Lampris luna.—Silver-bar fish, a common name applied to a member of the family Chirocentridæ, Chirocentrus dorah, a large fish of the Indian Ocean.—Struck fish, a fish salted and then smoked.

fish-block (fish'blok), n. The hoisting-block

fish-block (fish'blok), n. The hoisting-block used in fishing an anchor. fished (fisht), a. Filled with fish.

When it [the net] was hove up alongside it was seen to be well fished.

Rep. Mass. Com. Fisheries and Game, 1904, p. 33.

fisher-fish (fish'er-fish), n. One of the remoras (Echeneididæ), said to be used by the Chinese to catch other fish and turtles. The remora has a powerful sucking-disk on top of its head, and clings tightly to any object. A line is said to be fastened to the tail of the remora, for the purpose of pulling it and its captures to the shore.

fishery, n. 4. The exercise of the right to fish; a fishing venture or season.

Only thirty-six [pearl] fisheries took place [in Ceylon] during the nineteenth century.

Nature, March 17, 1904, p. 465.

Bank fisheries. See *bank1.—Bureau of Fisheries. See *bureau.—Pelagic fishery. See *pelagic. fish-eye (fish'ī), n. 1. A moonstone cut in the form of the eye of a fish and having a peculiar, soft, milky reflection.—2. An icthyophthal-mite. See apophyllite.

fish-fly (fish'fli), n. Chauliodes, of the neuropterous family Sial-idæ; specifical-ly, the comb-horned fish-fly,

Chauliodes pec-



Comb-horned Fish-fly (Chauliodes

fish-front (fish'-frunt), n. A strengthening slab placed on the front of a made mast; a piece of wood or iron used to strengthen a weak or broken spar.

fishing, n.— Fishing bill, in law, a bill for discovery in equity, improperly drawn upon loose, vague and insufficient allegations. It may be dismissed upon that ground.— Gorge-fishing, fishing with a gorge-bait, that is, one which is intended to be swallowed by the fish.

anchor is placed.
fishing-rod (fish'ing-rod), n. A long, slender, tapering rod, frequently jointed and elabo-

rately made, to which is attached the line and hook used in angling.

fish-kid (fish'kid), n. Same as kid3, 2.
fish-leaves (fish'levz), n. The common pondweed, Potamogeton natans. See pondweed (with seed, Potamogeton natans. See pondweed (with se

p. 302.

fish-pondant (fish'pen'dant), n. Naut., the rope to which the fish-hook is secured.

fish-poison, n. Also two species of Cracca, C. purpurea and C. toxicaria, used to stupely fish. See Tephronia and *ahuhu.—Braxilian fish-poison, Serjania lethalis (called timbo by the natives) and Paullinia pinnata. See Serjania and *barbasco.— Galifornia fish-poison. In California a number of plants are used by the Indians for stupelying fish. The two principal ones are Chlorogalum pomeridianum, belonging to the Melanthiacex, with a bulbous saponaceous root, also called amole, or soaproot; and Piscaria setigera (Croton setigerus of Hooker), belonging to the Euphorbiacex, of which the crushed leaves are used.—Ceylon fish-poison, Hydnocarpus venenata, a tree belonging to the family Placourtiacex, the narcotic fruits of which are used to poison fish, but which sometimes render them unit for food: also found in Malabar and Travancore. Called by the Cingalese makulu.—East Indian fish-poison, Walsura piscidia, a small tree of Ceylon, Travancore and Malabar, belonging to the Meliacex. It has a bright yellow fruit with a single seed surrounded by an edible aril. The bark is used as a fish intoxicant, which does not render the fish unit for food.—Guam fish-poison, the fruit of a tree, Barringtonia epeciosa. See *botong and *puting.—Malayan fish-poison, a poison derived from Deguetia elliptica, a handsome leguminous climber called tuba by the Malayans. See *tuba2.—Mexican fish-poison.

(a) Several species of Sebastiana of the spurge family, especially S. bilocularis and S. Palmeri. (b) Two leguminous plants, Ichthyomethia Piscipula and Cracca toxicaria. (c) Paullinia pteropoda, of the soapberry family.—Philippine fish-poison, a poison derived from several Philippine fish-poison, Barringtonia speciosa and Deguelia trifotiata, the latter a creeping leguminous strand-plant, the pounded leaves of which are used. See *barbasco.

fish-pole (fish'pōl), n. A slender pole to which a line is attached for fishing; specifically, a

fish-pole (fish'pol), n. A slender pole to which a line is attached for fishing; specifically, a pole of natural growth and in one piece, as distinguished from an artificial jointed rod. See rod^1 , 1 (e).

fish-powder (fish'pou'der), n. Dried fish pulverized: a food for use on arctic or other long voyages, where space and keeping qualities have to be considered. Geog. Jour. (R. G. S.), XIII. 140.

Fish-skin grain. See *grain1.

Fish-skin grain. See "grain". fish-tail wind, a wind which blows toward or from a target and causes a rifle-ball to strike either too high or low, respectively, so that the shot-hole are contained within an area whose outline suggests the shape of a fish's tail. The broad end of the tail is above the bull's-eye when the wind blows toward the target, but below it when the wind blows toward the target, but below it when the wind blows toward the marksman.

fish-well (fish'wel), n. An inclosure in a fishing-vessel, extending from the bottom to the deck, and designed to contain live fish. The

mits the sea-water.

fissicœle, fissicœl (fis'i-sēl'), n. [L. fissus, split (see fissicœl, + Gr. κοῖλος, hollow.] A cavity in the embryo formed by the splitting of a mass of cells. Same as schizocœle.

Fissidentaceæ (fis'i-den-tā'sē-ē), n. pl. [NL., < Fissidens (-dent-) + -aceæ.] A family of acrocarpous mosses of the order Brygles, typified

rocarpous mosses of the order Bryales, typified by the great genus Fissidens, and containing fist, n. 3. In printing, the index sign F, incolly two other genera. It is characterized by two ranked leaves winged on the back and formed of a single layer of similar cells, and by having the teeth of the periatione united at the base and usually split into two thread-shaped divisions. They are handsome erect mosses growing in moist, shady places throughout the world. There are 579 species, all but 9 of which belong to the genus Fixedens.

Gorge-fishing, fishing with a gorge-bait, that is, one which is intended to be swallowed by the fish.

fishing-cat (fish'ing-kat), n. A small spotted species of cat, Felis viverrina, found in Bengal: so named from its habit of catching fish.

fishing-crib (fish'ing-krib), n. Naut., a compartment in which the engine for fishing the partment in which the engine for fishing the fission-alge (fish'on-al'jē), n. pl. Same as a species of the compartment in which the engine for fishing the fishing th

iizophyceæ.

schizophyces.

A long, slender,
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s kid3, 2.

he common pondhe common pond

weed, Potamogeton natans. See pondweed (with cut).

fish-mold (fish' mold), n. A fungus which grows on fishes.

fish-mouth (fish'mouth), n. The snake-head or turtle-head, Chelone glabra.

Fish-mouth nebula. See *nebula.

fish-pass (fish' pas), n. An artificial channel designed to enable fish to pass from one body of water to another or over river obstructions such as falls or dams. Nature, Aug. 18, 1904, p. 364.

fish-pendant (fish'pen'dant), n. Naut., the rope to which the fish-hook is secured.

fish-poison, n. Also two species of Craca, C. purpurea and C. toxicaria, used to stupefy fish. See Tephrosia and *hauhu.—Brazilian fish-poison, Serjania lethalis (called timbo by the natives) and Paullinia pinnata. See Serjania and *barbaseo.—Galifornia nish-poison. In a fissiparously (fi-sip'a-rus-li), adv. In a fissiparously (fi-sip'a-us-line) (fish'pen'dan'), and the sisiparously (fi-sip'a-us-line) (fish'pen'dan'), and the fissirostrate (fish'-i-ros'trāt), a. Having a deeply (eleft beak; fissirostral.

fissura, n.—Fissura focculi, a ssure which bounds the attachment of the fiocculii, a fissure present in the cerebellum in mammals. Also known as the parafoccular afloculii and separates the anterior lobe from the remainder. In animals below man it is also called fissura prima.—Fissura prima.—Fissura prima it is also called fissura prima fisure (obe-from the remainder. In animals below man it is also called fissura prima.—Fissura prima fisure prima fissure with crosses the measi plane of the cerebellum and it is

a transverse direction, more or less parallel with the fissura prima. The fissura separates the lobus anticus from the lobus centralis. The fissure secunda separates the lobus centralis from the lobus posticus.

fissure, n.—Adoccipital fissure. See *adoccipital.—Amydaline fissure, a fissure of the brain near the extremity of the temporal lobe.—Ansate fissure or sulcus, in anat., one of the minor fissures lying on the superior aspect of the anterior half of the brain.—Anterotemporal fissure, a fissure just cauded to and more or less parallel with the fissure of Sylvius. Synonymous with the superior temporal sudcus, or the parallel fissure in apes. Proc. Zool. Soc. London, 1901, 1. 128.—Gallosal fissure, the interval between the dorsal surface of the corpus callosum and the cerebral cortex above.—Craniofacial fissure. See *craniofacial.—Ectorinial fissure, in anat., the furrow which separates the rhinencephalon from the rest of the hemisphere.—Recocipital fissure. Same as *ape-fissure.—Illoischiadic fissure, in ornith, the space or cleft between the illium and ischium. In the ostrich and most of its allies, this remains open throughout life; in the vast majority of birds, the distal portions of the illium and ischium unite, converting the proximal portion of the fissure into the obturator forsune. Also called the obturator fissure.—Inferofrontal fissure, a fissure which lies between the middle and the inferior frontal convolutions of the brain. Also known as the subfrontal fissure.—Intercerebral fissure, the large fissure which separates the two hemispheres of the brain.—Intraparietal fissure, a fissure of the brain and central fissure, and in rare cases is continued into the sylvian fissure. Also known as the parietal fissure.—Longitudinal fissure, same as parieto-occipital fissure.—Postciival fissure, a fissure of the cerebellum behind the clivus or inclined upper surface of the vermis.—Postgracile fissure, a fissure of the cerebellum between the selnder and the inferior semilunar lobes.—Postseptal fissure, a f

A member of the genus floor of the well is a grating which freely ad- fissure-eruption (fish'ūr-ē-rup'shon), n. An outbreak of lava through a fissure in the earth's crust without the production of a volcanic cone. The name was suggested by Sir A. Geikie to describe the great lava fields of the Snake river region of Idaho, where there are vast surface flows of basalt unaccompanied by volcances. Geikie, Text-book of Geol. (4th ed.), p. 264.

fissuring (fish'ūr-ing), n. The production of fissures through strata.

the trachea of an insect or the blow-hole of a

Like cetaceous animals and Whales, the Lamprey hath a fistula spout or pipe at the back part of the head.

Sir T. Browne, Pseud. Epidemica, iii. 19.

Sir T. Browne, Pseud. Epidemica, iii. 19.

Amphibolic fistula. See *amphibolic.— Biliary fistula. See *biliary.— Black or purging fistula. Same as purging-cassia. See Cassia.— Branchial fistula, a congenital opening in the neck communicating with the pharynx, due to non-closure of a branchial cleft.— Coccygeal fistula, an opening near the coccyx leading down to a dermoid cyst of that region.— Fecal fistula, an opening in the abdominal wall communicating with the intestine.— Gastric fistula, a communication formed between the stomach and the external surface of the abdomen.— Thiry-Vella fistula, an artificial opening made into the intestine of an animal for the purpose of collecting the intestinal secretions.— Urinary fistula, an abnormal opening into any portion of the urinary apparatus.— Vesical fistula, an abnormal opening into the urinary bladder: variously called vesico-intestinal, vesico-uterine, or vericovaginal, according as it affords a communication between the bladder and intestine, uterus, or vagina.

fistula-needle (fis'tū-la-nē'dl), n. A blunt-

pointed, flexible probe with an eye near its extremity, used for passing a ligature or seton through a fistulous tract.

Fistulata (fis-tū-lā'tā), n. pl. [NL.: see fistulate.] In Wachsmuth and Springer's classification of the Crinoidea, an order containing forms in which the arms are free above. ing forms in which the arms are free above the radials and the posterior side of the tegmen is extended into an elongate sac or ventral tube. The ambulacra are tegininal and roofed over by covering pieces. Cyathocrinus, Poterio-crinus, and Lecythocrinus are examples of the order. Most of the genera are Paleozoic: none survive after the Trias.

of the genera are Paleozoic: none survive after the Trias. fistulation (fis-tū-lā'shon), n. The production of a fistula. N. E. D. fistulatome (fis'tū-la-tōm), n. [L. fistula + Gr. -τομος, < ταμείν, cut.] An instrument resembling a probe-pointed bistoury: used for laying open a fistulous tract. fistule, n. 2. A sponge of the genus Fistula. Fistulipora (fis-tū-lip'ō-rā), n. [NL., < L. fistula, pipe, + Gr. πόρος, pore.] The typical genus of the family Fistuliporidæ.

Fistuliporidæ (fis-tū-li-por'i-dē), n. pl. [NL., Fistuliporidæ (fis-tū-li-por'i-dē), n. pl. [NL., Fistulipora + -idæ.] A family of Paleozoic tabulate corals growing in incrusting massive, or branching form, with very fine tubular corallites, having horizontal tabulæ and no septa.

fistulization (fis'tū-lī-zā'shon), n. [fistula + -ize + -ation.] Same as *fistulation.

fit1, n. 8. In optics, a periodic phase through which Newton, in his emission theory of light, assumed the luminous corpuscles to pass, and which enabled them to be alternately reflected or transmitted at the surface of a refracting medium. This assumption formed the basis of the so-called theory

of fits.—Nine-day fits. Same as trismus neonatorum.
f.1.t. An abbreviation of free in truck. [Eng.] f.1. t. An abbreviation of free in truck. [Eng.] fitcher (fich'ér), v. t. and i. [Appar. < F. ficher, stick.] In mining, to stick; to cause to stick; to operate a drill without giving it a rotary motion, thus forming a wedge-shaped cavity in which the drill will stick. fitchew, n. 2. The fur of the polecat, formerly known as the fitchew, later shortened to fitch.

See fitch², 2.
fitting, n. 3. Specifically, any small casting or other metal part of a machine or apparatus used to fit together or assemble other parts, as a coupling or elbow used to join lengths of

Fittonia (fi-tō'ni-ā), n. [NL. (Coemans, 1865), named in honor of the sisters Elizabeth and Sarah M. Fitton, Irish writers on popular botany (1817).] A genus of plants of the family Acanthaceæ. They are trailing herbs, with inconspicuous flowers borne in bracted terminal spikes. The three species, all natives of Peru, are grown in greenhouses for the delicate and showy red or white venation

fve, n.—High fiva. See *cinch, 4.
fve-corners (fiv'kôr-nerz), n. The fruit of a small Australian tree, Styphelia triftora, belonging to the family Epacridaces; also the

longing to the family Epacridaceæ; also the tree itself. The fruits are about the size of a pea and have a sweetish pulp with a large stone. They form part of the food of the aboriginals. [Australia.] fivefinger, n. 5. The Virginia creeper, Parthenocissus quinquefolia.—Dwarf fivefinger, Potentilla pumila, a low perennial herb of the eastern United States, closely related to the common fivefinger, P. Canadensia, but much smaller and having more deeply toothed leaflets. fivefingers (fiv'fing'gèrs), n. The American gingang Panax aminquefolius

ginseng, Panax quinquefolius.

five-or-nine (fiv or-nin'), n. The game of Pope
Joan or matrimony without the lay-out, the eldest hand beginning with the 5 or 9 of any

five-sisters (fiv-sis'ters), n. The whorled loosestrife, Lysimachia quadrifolia, the whorls of which consist as often of five as of four

of which consist as often of five as of four leaves. It is a delicate and graceful plant with yellow flowers dark-streaked or spotted on fillform peduncles in the axils of the leaves. It grows in shady places throughout eastern North America. See loosestrie, with cut. It vesprig-tree (fiv'sprig-tree), n. A West Indian tree, Quararibea turbinata, of the silk-cotton family; so called from its whorls of five branches. The leaves and flowers, when dried,

possess a strong odor of fenugreek.
five-throw (fiv'thro), a. Having five different
cranks or cams, so that five separate motions
can be received or imparted.

fix, n. 2. In naut. surv., the operation of determining ('fixing') the position of an unknown point by the three-point problem, which involves the measurement, at the point, of the two angles between lines running to three known visible points.

There is nothing in a nautical survey which requires more attention than the "fx"; a knowledge of the principles involved is essential in order to select properly situated objects. The method of fixing by two angles between three fixed points is generally known as the "two-circle nethod," but there are really three circles involved. The "station-pointer" is the instrument used for plotting fixes. Encyc. Brit., XXXXIII. 97.

fixate, v. t. 3. In psychological and physiological optics, to direct the eyes upon; bring within the area of clearest vision.

The tendency to fixate the lower end of an oblique line drawn in perspective.

E. B. Titchener, Exper. Psychol., I. ii. 312.

fixation, n. 6. Attachment; adhesion: as, various parasites have organs for fixation.—
7. In psychological and physiological optics, the act or process of directing the eyes upon some object, and of maintaining this direction during the during the direction during the direction during the during t ing the time required for observation; the bring-ing of a retinal image into and holding it upon ing of a retinal image into and holding it upon the area of direct vision.—Fixation-circle, -cross, -mark, -point, in psychological and physiological optics, a small object or a spot of light which the observer is required to fixate, and which thus serves to maintain his eye or eyes in a constant position during an experiment: used in perimetry, in tachistoscopic observations, etc.—Inner fixation-point, in psychol., the element or aspect of an idea which is most clearly and distinctly perceived as the idea runs its course: an expression borrowed from the physiology of vision, and contrasted with outer fixation-point. W. Wundt (trans.) Outlines of Psychol., p. 155.—Line of fixation, in psychological and physiological optics, a line in the field of regard along which the fixation-point of the eyes moves as convergence is changed from a far to a near object, or conversely. W. Wundt (trans.) Outlines of Psychol., p. 135.—Monocular fixation-point, the point of regard or center of the area of direct vision of the single eye.—Outer fixation-point. Same as fixation-point. See *fixation-circle. fixative, n. 2. In perfumery, a substance used to detain from too speedy evaporation a highly

fixative, n. to detain from too speedy evaporation a highly volatile ingredient of agreeable odor. The substance so used may itself be inodorous or may contribute to the blended odor of the mixed

perfume.—3. Same as *amboceptor. fixator (fik'sā-tor), n. Same as *amboceptor. Fixed cheek. See *cheek.

Fizeau-Cornu method. See *method. Fizeau's experiment, method. See velocity

of klight.

Fl. An abbreviation (b) of Flanders; (c) of Flemish; (d) of Florida.

Fla. An abbreviation of Florida.

flab (flab), n. [Var. of flap.] In bot., the cap of any large mushroom. Also flap. flabellifoliate (flabel-i-fo'li-at), a. [L. flabel-

lum, fan, + folium, leaf (see foliate).] Having fan-shaped or fan-like leaves, either such as those of the fan-palms or such as fold like a fan, as do those of Oxalis.

of the heart-shaped leaves. F. Verschafeltii and F. argyroneura, the former with red, the latter with white veins, are frequent in good collections.

| Placian (flā'shian), a. and n. I. a. Of or pertargyroneura, the former with red, the latter with white taining to the works or doctrines of Flacius veins, are frequent in good collections. Illyricus, an eminent Lutheran reformer 1520-

II. n. A follower of Flacius Illyricus. See ≠Flacianism.

Flacianism (fla'shian-izm), n. The doctrine of Flacius Illyricus, who as a strict Lutheran opposed the teachings of Melanchthon in the adiaphoristic and synergistic controversies.

Placourtiaceæ (fla-kör-ti-ā'sē-ē), n. pl. [NL. (Lindley, 1830), < Flacourtia + -aceæ.] A family of dicotyledonous choripetalous plants of the order Hypericales, typified by the genus Flacourtia, formerly included in the Bixaceæ, but more closely related to the Violacene. It includes 79 genera and about 300 species, chiefly woody plants of the tropics. See Samy-

7. A trade-name for the outer or fla σ^2 , n. distal portion of bristle, which is thinner and lighter than the basal portion.

The flag is much thinner and more flexible, and is used for paint brushes. Sci. Am. Sup., 1903, p. 22,611.

Absence flag, a small, square, blue flag hoisted at the starboard spreader of a yacht to signify that the owner is not on board.—Flag day. See *day!.—Foul.-weather flag, a storm signal.—Rattleenake flag, a storm signal.—Rattleenake flag, a flag of the American Revolution: a colled rattleenake on a yellow field.—Spanish flag, a name of certain fishes which are alternately banded with bright red and golden or white. Goniopletrus hispanus of the West Indies, a small bass-like fish, is specially known by this name, as is also the crimson-banded rockfish of the California coast. Sebastodes rubrivinctus.—Zionist flag, the flag of the Zionist, which has two horizontal blue stripes upon a white ground. These colors are



which has two horizontal blue stripes upon a white ground. These colors are considered sacred. The prayer scarf, tallith (which see), has the same colors. In the center of the flag is the cabalistic Magen-David, 'David's f shield,' which consists of two intertwined triangles, supposed to be the emblem of protection.

18.23 n.—Crimson flag, Schizostylis coccinea, an iridaceous plant of South Africa related to Gladiolus, with long tubular crimson flowers. It is a favorite in flowergardens.—Palse sweet-flag, the yellow flag, Iris Pseudacorus.—Narrow flag, the slender blue flag, Iris prismatica, of eastern North America, with long, narrow leaves.—Poison flag, a name commonly applied to species of Iris, especially I. versicolor and I. prismatica, to distinguish them from the sweet-flag.—Rattlesnake-flag, the rattlesnake-master. Eryngium yuccifolium, which possesses a flag-like aspect. See cut under rattlesnake-master.—White flag. (a) See def. (b) Iris Florentina, with bluish-white flowers. See Iris and orris-root.

sesses a fing-like aspect. See cut under rattlesnake-master.—White finag. (a) See def. (b) Iris Florentina, with bluish-white flowers. See Iris and orris-root.

flags, n.—Arbroath flags, a local name of beds of gray flagstones in Forfarshire, Scotland, belonging to the Old Red Sandstone.—Bannisdale flags, a division of the Upper Silurian in Westmoreland, England, regarded as essentially equivalent to the Middle Ludlow formation of Shropshire, including the Aymestry limestone. The strata attain a thickness of more than 5,000 feet and carry many fossils.—Belivale flags, a subdivision of the Devonian system in New Jersey geologists as equivalent to a part of the Hamilton group. It attains, in New Jersey, a thickness of 1,800 feet or more and is underlain by the Monroe shales and overlain by the Skunnemunk conglomerate. Fossils are rare and they are those of the Hamilton group.—Brathay flags [Brathay, a small stream in Westmoreland], the lowest division of the Coniston flags of the Upper Silurian in Westmoreland and Cumberland, England: regarded as the equivalent of the Wenlock strata of Shropshire. They attain a thickness of 1,000 feet and contain many fossils, chiefly graptolites.—Coniston flags, in Eng. geol., a name applied to several divisions of the Silurian rocks. The Coniston flags in Westmoreland and Cumberland attain a thickness of about 3,000 feet and underlie the Coniston grits. They are regarded by Gelkie as equivalent to the Lower Ludlow group or Upper Silurian. The Coniston limestone in the same region is of Lower Silurian age and equivalent in part to the Bala limestone (which see).—Ffestiniog flags [Ffestiniog in Wales], a division of the Lingula flags (Upper Cambrian) of Wales, having a thickness of about 2,000 feet and carrying trilobites, brachiopods, and other fossils. They constitute, in Gelkie's classification, the middle subdivision of the Lingula flags and other fossils. They constitute, in Gelkie's classification, the middle subdivision of the Lingula flags, a division of the Cambrian syst

flag-dues (flag'dūz), n. pl. Naut., a charge or

tax made against a vessel in some harbors for displaying flags: an excuse for extorting a fee additional to the regular harbor-dues.

additional to the regular harbor-dues.

Flagellar agglutinin. See *agglutinin.
flagellation, n. 2. In biol., the formation or development of flagella.
flagellum, n. 5. In sporozoans, a vibratile male gamete in Halteridium, a blood-parasite found in birds.
flageolet, n. 2. In organ-building, a stop, usually of 2-feet tone, giving high fluty tones.
flag-lily (flag'lil'i), n. The common blue flag, Iris versicolor.
flag-ligt (flag'list), n. The list of edmirals or

flag-list (flag'list), n. The list of admirals or

lag-list (nag 1100), ...
flag officers of a navy,

flag officers of a navy,

In the British navy, the flag-pay (flag'pā), n. In the British navy, the pay of a flag-officer while flying his flag or com-

manding a fleet or squadron.

flag-rank (flag'rangk), n. In the navy, the rank of officers above the grade of captain, including commodores and the various grades

of admirals. flag-reed (flag'red), n. In Australia, the common reed, Trichoon Phragmites. See reed1, with cut.

flag-wire (flag'wir), n. A rod pivoted at the ends so as to be free to rotate about its own axis and to serve as a hinge for any body supported by it; hence, in machinery, a part or member thus mounted and used to convert

fail-joint (fail'joint), n. A hinge-joint with abnormal mobility in opposite directions.

fair, n. 3. Scent; the critical sense in art and literature. [Rare.]

No better proof could be given of Vasari's genuine flair and intuition as a critic of art than this passage.

C. Phillips, in Portfolio, N. S., XXXVII. 95.

flakage (flā'kāj), n. [flake + -age.] The flakes, chips, or splinters which fall during the process of fashioning (flint-) arrow-heads and other implements by flaking (which see). Amer. Anthropologist, Jan.-March, 1902, p. 120.

tres, usually along the cleavage-planes, produced in the diamond during the cutting process when the necessary care to prevent overheating has not been taken. The dullness is greater or less according to the amount of the

flake-hurdle (flak'her'dl), n. Same as flake2, 1. flake-knife (flak'nif), n. In archæol., a chip or flake of flint or of some other brittle stone used as a knife.

used as a knife.

flaker, n. 2. An implement of bone, antler, or similar material, used for shaping implements from brittle stones like flint, jasper, and chert. The stone was first roughly shaped with a small hammer and then placed on a pad in the hand. By means of the flaker small chips were broken off.

flaking, n. 2. The occurrence of streaks or spots of white, or lighter color, in organisms that are not usually white. Bateson and Saunders, Rep. Evol. Com. Roy. Soc., 1902, I. 47.

flaking-rolls (flā'king-rolz), n. pl. In milling, a roller-mill adapted to making flaked cereals or prepared breakfast foods in which the grains of wheat, oats, etc., are in the form of

or prepared breakfast foods in which the grains of wheat, oats, etc., are in the form of thin flakes; a flaking roller-mill.

flambage (flon-bäzh'). n. [F., < flambe, flame.]

A cauterizing, sterilizing, or singeing process in which the thing to be operated upon is passed rapidly through a flame or over red-hot plates.

plates.

flame, n.—Ciliary flame, in Platyhelmintha, a bundle of vibratile cilia, situated, typically, in the interior of a cell (the flame-cell) terminating one of the capillary branches of the water-vascular or excretory system.

flame, v. t. 5. To hold in or pass through a flame, as an instrument, in order to sterilize it.

flame-arc (flām'ārc), n. See electric *arc.

flame-band (flām'band), n. In spectroscopy, a bright hand in the spectrum due to the radis-

bright band in the spectrum, due to the radiation from a flame. flame-box (flam'boks), n. A fire-box which is

intended to serve as a combustion-chamber, as in a deep fire-box on a locomotive-boiler.

flame-carbon (flam'kar'bon), n.

flame-carpet (flam'kär'pet), n. See *carpet, 4. dime-flue (flam'flö), n. The flue which leads directly away from the fire-box of a flue-boiler, and is supposed to be filled with flame: as distinguished from the smoke-flue which returns the gases to the front end of the boiler, after combustion has been completed.

flame-gage (flām'gāj), n. A device for measuring the height of standard flames used in pho-

tometry. It consists of a translucent screen, with a vertical scale, upon which an enlarged image of the tip of the flame is thrown by means of a lens of short focus.

flamenco (flä-men'kō), n. [Sp. flamenco, flamingo. The fish is so named in allusion to its red color.] The Mexican name of a species of snapper, Lutianus guttatus, a common food-fish of the Panama region.

flame-opal (fläm'ō'pal), n. An opal in which the colors are distributed more or less regularly in hands on extraction.

in bands or streaks.

flame-plate (flam'plat), n. A plate, such as the crown-sheet, which, in a fire-box or furnace, A plate, such as is exposed to the flame or burning gases from the fire.

flame-reaction (flām'rē-ak'shon), n. flame-test (which see, under *test1). Same as

flame-shoulder (flam'shol'der), n. collectors' name for a European noctuid moth, Agrotis plecta, a small dark species with a flame-colored stripe on the shoulder of each

fame-test (flām'test), n. See *test1.

flame-tight (flām'tīt), a. Proof against the passage or escape of flame, as the safety-lamp used by miners.

used by miners.

flanch (flanch), v. Same as flange.

flanch-chuck (flanch'chuk), n. A chuck having the shape of a flange or face-plate, with points or teeth for carrying the work instead of slots to which the work is bolted. Also called flange-chuck.

flanch-mill (flanch'mil), n. A small haud-mill used principally for grinding coffee. As ordinarily made the grinders are of iron and can be set to grind to the desired size.

flange, n.—Blind flange. Same as blank flange. In England, also called a no-thoroughfare.

flange-chuck (flanj'chuk), n. Same as *flanch-

flange-coupling (flanj'kup' ling), n. See

flange-iron (flanj'ī"ern), n. Any iron bar or

flange-iron (flanj'ī'ern), n. Any iron bar or beam having a projecting rib or flange, as an angle-iron, T-iron, etc. flange-pulley (flanj'pùl'i), n. A pulley having a flange around one or both edges. Such flanges are usually to keep the belt from slipping off the side of the pulley. flanger (flan'jèr), n. 1. A flanging-machine.

—2. Same as snow-flange.—3. In mech. and ship-building: (a) A mechanic skilled in flanging metal plates. Also called flange-turner. (b) Same as flanging-machine.

flange-steel (flanj'stēl), n. Steel having so

flange-steel (flanj'stel), n. Steel having so low a percentage of carbon or other hardening constituents as to be sufficiently ductile to be bent at right angles in the process of flanging (see flange, v. t. and flanging-machine), without cracking or local overstrain.

flange-tile (flanj'til), n. A tile having a flange along one or more edges. flange-turner (flanj'ter'ner), n. Same as

flanger, 3(a).

flanging-clamp (flan' jing-klamp), n. In forg-ing, a large and massive beam-clamp for hold-ing large work while it is being hammered to form a flange on its edge. It consists of two horizontal beams. The upper one is adjustable by means of screws; the lower one is rigid and is designed to hold formers over which the hot metal is bent to make the

flange.

flanging-hammer (flan' jing-ham'er), n. 1.

A hand-hammer used for turning a flange on the end of copper-pipe, etc.—2. A machine the end of copper-pipe, etc.—2. A machine for turning up the edges or forming flanges on the edge of metal plates for boilers, pipes, tanks, etc.

flank, n.—Flank en potence (milit.), a flank which is either advanced or refused and perpendicular to the rest either adva

flanky (flang'ki), a. [flank + -y¹.] In leather-manuf., loose and coarse: as, a flanky skin. Flemming, Practical Tanning, p. 116.

flannel, n.— Welsh flannel, flannel made from the wool of Welsh sheep.

fannel-flower, n. 3. An Australian plant, Actinotus Helianthi, of the parsley family. It bears white flowers in simple umbels surrounded by a many-leaved involucre, which is longer than the flowers and looks as if it were cut out of white flannel.

flannel-leaf (flan'el-lef), n. The mullen, Ver-

fiannel-leaf (flan'el-lef), n. The mullen, Verbascum Thapsus.

flannellet, n. 2. A cotton fabric woven and finished in imitation of wool flannel.

flannel-moth (flan'el-môth), n. Any moth of the family Megalopygidæ. Especially the crinkled flannel-moth, Lagoa crispata, whitish in color, with its wings furnished with long curly hairs, resembling flannel. Its larvæ feed on apple, oak, elm, and raspberry.

Annel-plant (flan'el-plant), n. Same as #fannel-plant (flan'el-plant), n. 10. In mycol., same as *fab.—11. In phonetics, a flapping motion of the tongue or uvula or the sound produced by it, as in vocalizing the letters l or r.

The most distinct glide-consonants are the faps, of which the Norwegian 'thick' is an example.

H. Sweet, Eng. Sounds, p. 12.

Annel-point (flan'ming-go), n. [An alteration of famingo. Compare *famenco.] One of the file-fishes. Monaconthus ciliatus, found in the West Indies and northward to Florida.

Annel-point (flan'ming-go), n. [An alteration of famingo. Compare *famenco.] One of the door of a landau. When up, they support the door-glass frame: when the glass is lowered, they fall flat upon the door-bar.—7. In crustaceans, the tail, or the telson together with the appendages of the last abdominal segment.

Annel-point (flan'fan), n. A strap extending from the bridle-bit to the flap of a saddle for training a horse to hold his head in a desired position.

Annel-point (flan'fapor), n. In photog., same as ghost, 8.

Thus obtained a fatter field and freedom from "fare-spot" (fla prortat objective). Eng. Ent., XXXI. 608.

Annel-point (flan'fan), n. A strap extending from the bridle-bit to the flap of a saddle for training a horse to hold his head in a desired position.

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Annel-point (flan'fan), n. A strap extending from the bridle-bit to the flap of

cally metamorphosed gabbro which has the flaser structure.

flash 1, v. I. intrans.—To flash back, to strike back: said of a flame of the Bunsen type in which, owing to undue admixture of air, ignition at the base of the burner occurs by the transmission of flame through the tube.—To flash over, in elect., to pass, as a spark, from one commutator-bar to another.

II. trans. 7. In photog., to cover with an exceedingly thin layer, as of metal in a plating bath

ing-bath.

The so-formed negative is sprung from the wax, cleaned and polished, and flashed over with a very thin layer of nickel in a nickel bath.

Nature, Jan. 29, 1903, p. 301.

flash¹, n. 9. In *elect.*, an accidental electric arc of short duration and great intensity. flash-board (flash'bord), n. Same as flashing-

flash-boiler (flash'boi'ler), n. A type of boiler, first perfected for steam motor-cars, in which the steam is instantly made by bringing small the steam is instantly made by bringing small masses of hot water upon very hot surfaces. Such surfaces are usually tubes, heated by the fire on the outside, while the hot water is forced through them. A boiler of small bulk will make a large amount of steam per hour, the steam being usually superheated, which favors economy. The boiler has no store of reserve energy, but for this reason is safer. Semifush boilers are those in which there is some water, at all times, in process of heating before flashing into steam. In the true flash-boiler there should be no liquid water except the last discharge of the feed-pump undergoing instant transformation into steam.

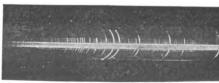
formation into steam.

flasher¹, n. 6. A device for automatically lighting and extinguishing incandescent lamps or groups of lamps: used especially in the operation of electric advertising-signs.

flashing¹, n. 4. In elect., on commutators of direct-current dynamo-electric machines, the carrying of a spark from one brush to another, when it appears as a flash encircling the commutator-surface.

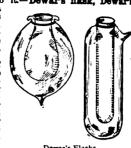
flash-lamp (flash'lamp), n. In photog., a lamp for producing a flash-light. Powdered magnesium or aluminium is blown into an alcohol or gas flame.

flash-spectrum (flash'spek"trum), n. The spectrum of bright lines or luminous arcs seen



Flash-spectrum Eclipse of 1900. (Evershed.)

or photographed during a total eclipse of the sun at the beginning and end of the total obscuration. It lasts for a few seconds only.



may be ruled in squares for counting.

flask-shell (flask'shell), n. A mollusk with a flask-shaped shell; in Great Britain, a boring mollusk, Gastrochæna modiolina.

flat¹, I. a. 11. In cotton-shipping, not compressed; not hard packed. Cotton which is to be shipped any great distance, by rail or ship, is usually compressed in very powerful presses to reduce the bulk as much as possible. Cotton which has not been through such a press is said to be flat.

12. In printing, said of the proof or print of a plate or engraving in relief which has received the flat impression of the press without the

the flat impression of the press without the overlay used to develop light, shade, and perspective.—13. In golf, said of the lie of a club, when the head is at a very obtuse angle to the shaft.—14. Not distinguished by a characteristic termination: as, a flat adjective to pour that overline and distributed by (a noun that occupies an adjectival position be-fore another noun and becomes an adjective without inflection or modification of form: as, a stone wall; garden flowers); a flat adverb (see *adverb).

II. n., 4. (9) Something that is flat and shallow, as a basket or hamper for carrying produce to market, a shallow two wheeled hand-cark, etc.

8. In ship-building: (b) A platform, deck, or floor which is of restricted area and does not form an important part of the vessel's structure.

It is evident, moreover, that the greatest loss of longitudinal stability must result from the flooding of compartments near the bow and stern, unless the buoyancy of the water-line area at the tops of these compartments is preserved by watertight fats or platforms.

White, Manual of Naval Arch., p. 120.

A narrow bar of iron or wood, covered with card-clothing, surmounting the main cylinder of a cotton-carding machine.—15. In hort., a shallow box, usually 2 to 4 inches deep, used by gardeners to start seeds and cuttings, and also to serve as a tray on which to carry and also to serve as a tray on which to carry pots.—Alkali flat. See *alkali.—Heel of the flat, that part of a top flat of a cotton-carding machine which is nearest to the main cylinder.—Mahogany flat, the bedbug, Cimex lectularius. [Local, southern U. S.]—Stationary flat, in cotton-manuf., a small piece of wood faced with flannel, which rests on the top drafting-rollers of a drawing-frame, to clear the rollers of loose cotton and impurities.

flat¹, v. t. 6. In leather-manuf., to shave or smooth on the flesh side. C. T. Davis, Manuf. of Leather, p. 403.

 $flat^1$, adv.—Flat aback.—See $\star aback$,

 fatfoot (flat'fút), n. 1. In pathol., a condition in which the arch of the foot is broken down, the sole touching the ground throughout its entire area.—2. A condition in heavy draft-horses (usually of the fore feet), in which the heel is low, the ground-surface broad, the sole flat or slightly convex, and the wall more acutely slanted than is normal. flat-hammer (flat'ham'er), n. The hammer first used by the gold-beater in flattening out

a pile of quartiers or pieces of gold ribbon.

flathead, n. 4. Notothenia corticeps, a fish of
the family Trachinids found in Australian Also called Maori-chief.

flatman (flat man), n. One who navigated a flat-boat: used especially in early river navigation in the Ohio and Mississippi valleys.

Platness of field, in photog., the property in an objective of bringing the rays to a focus on a plane surface, as that of the sensitive plate. While this is theoretically impossible, many lenses are now made which approximate flatness of field very closely. See *curvature of field.

flat-square (flat'skwar), a. Having rectangular cross-sections: said of a file.

flattening (flat'ning), n. In vegetable teratol., the abnormal assumption by normally cylindrical stems, branches, or other organs of a compressed or flattened condition. It occurs in Coccelebra Resulting Research Phillipsthus the of a compressed or flattened condition. It occurs in Coccolobis, Bauhinia, Ruscus, Phyllanthus, etc., in the spadices of araceous plants, and the petioles of aquatic plants. This phenomenon is to be distinguished from fasciation (which see). Masters.

flatter-dock (flat'er-dok), n. 1. Same as candock, 2.—2. Same as *batter-dock, 2.

flattie (flat'i), n. [flat! + dim.-ie. Cf. sharpie, sharpy.] A flat-bottomed boat.

Flat-ware presser, a workman in a pottery who makes flat-ware, such as plates, saucers, etc., in a mold or on the ligger. See jigger!, 2 (d).

flat-waste (flat'wast), n. In cotton-manuf., the impurities and short fibers of cotton which gather on the flats or upper carding-surfaces of a carding-machine; also, the loose fibers which gather on the clearing-flats that rest on the top drawing-rollers of a drawing-frame.

flatwoods (flat'widz), n. pl. 1. A local name in Ohio for valleys formerly occupied by rivers but now flats and covered with woods.—2. In Alabama, especially in the Coosa valley, a type of land consisting of an impervious clay derived from the Cambrian shales, supporting

a dense growth of dwarf oaks, pines, etc. flat-works (flat'werks), n. An ore deposit lying parallel with the inclosing rocks but of later origin than the walls. Geikie, Text-book

of Geol., p. 819.

flautino, n. 4. In organ-building, a two-foot stop giving fluty tones.

flautone, n. 2. In organ-building, a stop pitched an octave lower than the ordinary flute-

an octave lower than the ordinary flute-stop. flavazol (flav-az'ōl), n. [L. flavus, yellow, + az(o) +-ol.] A mordant coal-tar color, similar to, if not identical with, gambine *yellow. flavenol (flav'en-ōl), n. [L. flavus, yellow, +-en+-ol.] A colorless crystalline compound, C₁₆H₁₃ON. Also called 2',4'-hydroxyphenylmethylquinoline. It melts at 238° C. flavin, n. 2. A bright yellow crystalline compound, C₁₈H₁₂ON₂. Also called 2.2'-diaminobenzophenone. It melts at 135° C.—Diamond flavin, a mordant coal-tar color of the monozo type, derived from benzidine and salicylicacid. It dyes chromiummordanted wool orange-yellow in an acid bath. flavindulline (fla-vin'dū-lin), n. [As flav(in)

flavinduline (fla-vin'dū-lin), n. [As flav(in) + induline.] A basic coal-tar color of the azonium-chlorid type. It dyes tannin-mordanted cotton vellow.

flavocastaneous (flā'vō-kas-tā'nō-us), a. [L. flavus, yellow, + castanea, chestnut, + -ous.]
Of a yellowish-chestnut color. Annals and Mag. Nat. Hist., June, 1903, p. 615.

flavocobaltic (flā-vō-kō'bâl-tik), a. [L. flavus, yellow, + E. cobalt + -ic.] Noting a class of amino-nitro cobaltic salts. The chlorid has the formula Co₂Cl₂(NO₂)₄(NH₃)₁₀.

flavohyaline (flavo-hi'a-lin), a. [L. flavus, yellow, + Gr. taloo, glass.] Yellowish and transparent, as the wings of certain insects.

Annals and Mag. Nat. Hist., April, 1904, p. 290.

Annais and Mag. Nat. Hist., April, 1904, p. 280.

flavol (flav'ōl), n. [L. flavus, yellow, +-ol.]

A bright yellow crystalline compound, C₁₄H₁₀
O₂. Also called dihydroxyanthracene.

flavoline (flav'ō-lin), n. [flavol + -ine².] A crystalline compound, C₁₆H₁₃N, prepared synthetically from quinoline. It melts at 65° C.

flavone (flav'on), n. [L. flavus, yellow, +-one.]
A group of naturally occurring yellow coloring-matters, some members of which are used

as dyes. The parent substance is called phenylpheno-y-pyrone, C₁₅H₁₀O₂. flavopallid (fiā-vō-pal'id), a. [L. flavus, yellow, + pallidus, pale.] Pale with a yellow tinge. [Rare.] flavophenin (flā-vō-fē'nin), n. [L. flavus,

yellow, $+ E. phon(yl) + -in^2$.] A direct coaltar color.

flavotestaceous (flavotesta'shius), a. [L. flavus, yellow, + testaceus, of a shell.] Dusky yellow. Annals and Mag. Nat. Hist., June,

flavotestaceous (flā'vō-tes-tā'shius), a. [L. flavus, yellow, + testaceus, of a shell.] Dusky yellow. Annals and Mag. Nat. Hist., June, 1903, p. 611.

flavovirescent (flā'vō-vi-res'ent), a. [L. flavus, yellow, + virescens, virescent.] Virescent with a yellow tinge. [Rare.]

flax, mellue flax. See Lewis's vild *faa.—Cathartio flax. Same as purging-faax—Cotton flax, flax which has been prepared to resemble cotton, usually by chemical means, as with hydroxid and carbonate of sodium and sulphuric acid.—Courtrai flax, a fine quality of flax produced in Belgium, whence it is exported to other countries.—Dutch flax, the false flax Camelina sativa.—Dwarf flax. Same as purging-faax.—East Indian flax, Reinscardtia trigyna, a small shrub of northern India, closely related to and resembling flax.—Evergreen species native to Crete.—False flax. (a) Camelina sativa, also C. microcarpa, so called from its resemblance to flax and because it often grows in fields of flax as a weed. (b) The field-cress or mithridate mustard, Lepidium campestre.—Lewis's wild flax, Linum Lewisit, a large blue-flowered species very abundant on the western prairies and plains of North America, extending to Alaska: long confounded with the similar Old World species, L. perenne. Its stems yield a strong, fine fiber, utilized by the aborigines for cordage, etc., and the plant has been recommended for experiment as a source of commercial fiber. In California it is called blue flax.

See *mountain-flax.—Native flax. (a) In Australia, Linum marginale, a congener of the common flax. Though a smaller plant it yields fiber of excellent quality which is used by the aborigines for making fishing-nets and cordage. (b) In New Zealand, L. monogynum; also the New Zealand flax, Linum perenne, the large blue-flowered wild such as a such services wild *flax.—Wild flax. (a) Linum Virginianum, the common small yellow-flowered species of the eastern United States. Also called siender yellow flax. (b) Linum Virginianum, the common small yellow-flowered species of the east

botanists, inhaving heterogonous flowers.—Rocky Mountain flax. Same as Leviis's wild *flax.—Wild flax. (a) Linum Virginianum,
the common small yellow-flowered species of the eastern
United States. Also called stender yellow flaz. (b)
Same as Levis's wild *flaz. (c) Same as toad-flaz. (d)
Same as false *flaz (a). (e) The garden tickseed or calliopsis, Corcopsis tintoria.—Yellow flax, any yellowflowered species of Linum: usually with a further qualifying adjective: as, the stender yellow flaz, L. Virginianum;
the stif yellow flaz, L. medium; the Florida yellow flaz, L.
L. Floridanum of the southern United States; the ridged
yellow flax, L. striatum; the grooved yellow flaz, L.
sucatum. L. rigidum, the large-flowered yellow flaz, is
a species of the western United States.

12x-hlade (flaka'hlad). n. In New Zealand.

fiax-blade (flaks'blad), n. In New Zealand, a leaf of the New Zealand flax. See Phormium. flax-dodder (flaks'dod'er), n. See *dodder'. flax-drop (flaks'drop), n. The flax-dodder, Cuscuta Epilinum.

flax-lily (flaks'lil'i), n. 1. Same as flax-bush.

2. A variety of Dianella lævis, an Australian fiber-plant belonging to the lily family. It yields a strong, silky fiber and was formerly much used by the aborigines for making baskets.—3. In Tasmania, Dianella Tasmanica.

Called also broad large flag. Called also broad-leaved flax-lily.

flax-plant (flaks'plant), n. Same as flax-bush.
flax-ripple (flaks'rip'l), n. Same as ripple!.
flax-star (flaks'stär), n. A plant, Asterolinon
Linum-stellatum, of the primrose family, a native of the Mediterranean region, bearing greenish star-shaped flowers.

flax-tail (flaks'tal), n. The common cattail or reed-mace, Typha latifolia.

flax-vine (flaks-vin), n. The flax-dodder, Cus-

syn- flaxwort (flaks'wert), n. Any plant of the flax C. family, especially of the genus Linum.

flea 1 , n.—Cat and dog flea. See Pulex, 1.

1681, n.—Cat and dog fies. See Pulex, 1.
16eabane, n.—African fleabane, Tarchonanthus camphoratus, an aromatic shrub or small tree of South Africa, but also found in Abyssinia and Somaliland, belonging to the aster family, with leaves silvery tomentose beneath and large pyramidal clusters of yellowish-white diocious flowers. It has beautifully variegated yellow wood, used in making musical instruments. It is cultivated as an ornamental plant. See wild sage (c), under sage?.—Bitter fleabane, the blue fleabane, Erigeron acris, a plant with blue or purple flowers and acrid juice, found in northern

Itela-beetle

latitudes and at high altitudes in Europe, Asia, and North America.—Ganada or Canadian-feabane, the horse-weed, Leptilon Canadense.—Daisy-fieabane, any plant of the genus Erigeron, but more especially E. ramosus, E. annuus, and E. Philadelphicus. The vestern daisy-fieabane is E. Bellidiantrum, a small species, cinereous-pubescent throughout, with purplish flowers, found on the plains of Nebraska, Kansas, and Texas.—Dwarffieabane, the low or purple horseweed, Leptilon divaricatum, of the Mississippi valley and Texas, a small hairy plant, rarely a foot high, with larger heads than the Canada fleabane and purplish rays.—Early fleabane, Erigeron vernus, a low plant with spatulate root-leaves and rather large white- or pink-rayed heads, found in moist soil from Virginia to Florida and Louisiana. It flowers in early spring.—Marsh-fleabane, any of the American species of Pluchea. P. camphorata is the salt-marsh fleabane. P. fatida, P. petiolata, and several other species grow in inland swamps, especially in Florida. See Pluchea.—Philadelphila fleabane, Erigeron Philadelphicus, the most widely distributed and one of the most beautiful of American fleabanes, having soft pubescent stems and



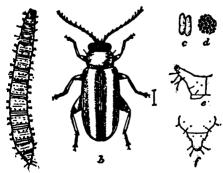
Philadelphia Fleabane (Erigeron Philadelphicus), o fifths natural size. (From Britton and Brown's "Illustrated Flora of the Northern States and Canada,")

leaves and large terminal heads, with rose-purple rays. Also called sweet scatious and skevish.—Running fleabane, Erigeron fagellaris, a small delicate plant running by decumbent rooting stems, the small oblong leaves mostly near the ground, and the large single heads with white or pink rays borne on long slender peduncles. It is confined chiefly to the Great Plains from South Dakots to New Mexico.—Salt-marsh fleabane, See marsh-**/sleabane.—Spicy fleabane, the salt-marsh fleabane.—Spicy fleabane, the salt-marsh fleabane.—Spreading fleabane, Erigeron divergens, a diffusely branching species, ranging over the entire western United States from Montana to Washington, and south to Texas and Mexico. It is a hairy plant with large heads, the narrow violet or purple rays separated considerably from one another.—Three-nerved fleabane, Erigeron subtrinervis of the Plains and Great Basin, having lanceolate three-nerved leaves and large solitary terminal heads with very numerous, long, and showy blue or pink rays.

fleabane-mullet (fle'ban-mul'et), n. The common European fleabane, Pulicaria dysen-

ferica.

flea-beetle, n.—Banded flea-beetle, Systena tæntata, a species which is found commonly on beans and peas.—
Convex flea-beetle, Psylliodes convexior, a beetle which occurs on the sugar-beet and on rhubarb and other garden vegetables.—Cucumber flea-beetle. Same as potato **flea-beetle.—Egg-plant flea-beetle. Same as potato and other plants.—Eim flea-beetle, the imported elm leaf-beetle. See **elag-beetle.—Elongate flea-beetle, Systena elongata, a species which lives on weeds, but sometimes eats the leaves of the cotton-plant.—Horse-radish flea-beetle, Phyllotreta armoraciæ, which feeds on the leaves of cruciferous weeds and vegetables.—Pale-

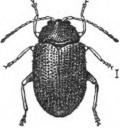


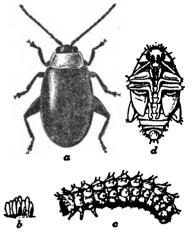
Pale-striped Flea-beetle (Systena blanda).

a, larva; b, beetle: c, eggs; d, sculpture of egg; c, anal segment, from side; f, same from above. a-d, six times natural size; e, f, much enlarged. (Chittenden, U. S. D. A.)

striped fies-beetle, an American chrysomelid beetle, Systema blanda, which injures the foliage of tomatoes and

potatoes.—Potato fica-beetle, a small American chrysomelid beetle, Epit rix cucumeris, which eats

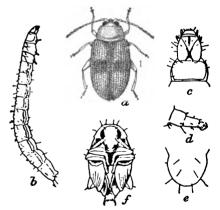




Spinach Flea-beetle (Disonycha xanthomelæna).

a, beetle; b, egg-mass showing mode of escape of larva at right; c, full-grown larva; d, pupa. a, c, and d, five times natural size; b, more enlarged. (Chittenden, U. S. D. A.)

Strawberry fiea-beetle, Haltica ignita, a widely distributed metallic-colored species which lives both as larva and as adult on the leaves of the strawberry and certain other planta, more frequently perhaps on the evening primrose.—Sweet-potato fiea-beetle, Chastocnema confinia, a bronze-colored species which frequently destroys the leaves of young sweet-potato plants.—Tobacco flea-beetle, Epitrix parvula, a reddish-brown species



Tobacco Flea-beetle (Epitrix para a, beetle; b, larva; c, d, e, larval details; f, pupa. All much enlarged. (Chittenden, U. S. D. A.)

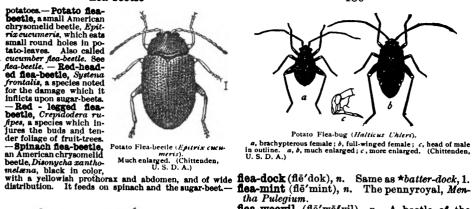
which punctures the leaves of young tobacco-planta.—
Viciacous fica-beetle, Crepidodera helaines, a coppery, violet, or greenish-black species, often injurious to the foliage of the cherry.—
Wavy-striped fica-beetle, Phyllotreta vittata, a species black in color, with a yellow wavy stripe down each wing-cover. Its larva mine the leaves of cruciferous vegetables, on which the adult beetles feed.—Western fica-beetle, Phyllotreta pusilla, a dark polished olive-green species which damages cabbage, turnips, and sugar-beets in the western United States.

lea-bug (fic bug), n. Any

flea-bug (fle'bug), n. Anv small capsid bug of the genus Halticus or its near allies.—Potato flea-bug, an American capsid bug, Hallicus U'hleri, which feeds on the leaves of the potato and other garden crops.



Western Flea-beetle (Phyl-lotreta pusilla). Much enlarged. (Riley, U. S. D. A.)



tha Pulegium.

fiea-weevil (flē'wē"vil), n. A beetle of the family Curculionidæ.— Apple-leaf flea-weevil, an American curculionid beetle, Orchestes pallicornis. flebotomy, n. A simplified spelling of phle-

diche, n. 4. In a chart, a barb attached to an arrow to indicate the force of the wind which blows in the direction of the arrow. Ordinarily six flèches are used to represent six different the six of the six o six flèches are used to represent six different grades of wind from calm to hurricane; but in British charts sometimes twelve are used.—
5. One of the points on a backgammon-board. Flechsig's myelination method. See *myelination.—Flechsig treatment. See *treatment.
flection, n. 6. In geom., same as flexure, 1.
Flectional adverb. See *adverb.
fleece, n. 6. In anat., white fibers, resembling wool, encircling the corpus dentatum in the cerebellum. Also called fleece of Stilling.—Fallen fleece, the fleece of a diseased animal.
fleet1, v. t.—To fleet the messenger (naut.), to shift the eyes of the messenger, an endless rope used for heaving in a cable by a capstan. [Obsolete.]
Fleet in being, a fleet which, though it may be so inferior

Pleet in being, a fleet which, though it may be so inferior to the fleet of the enemy as to be unable to engage in open fight with him, is yet unconquered and able to hamper his offensive movements.

his offensive movements.

A flect in being, therefore, is one the existence and maintenance of which, although inferior, on or near the scene of operations, is a perpetual menace to the various more or less exposed interests of the enemy, who cannot tell when a blow may fall, and who is therefore compelled to restrict his operations, otherwise possible, until that fleet can be destroyed or neutralized. It corresponds very closely to "a position on the flank and rear" of an enemy, where the presence of a smaller force, as every military student knows, harasses, and may even paralyze offensive movements. When such a force is extremely mobile, as a fleet of armoured cruisers may be, its power of mischief is very great; potentially, it is forever on the flank and rear, threatening the lines of communications. It is indeed as a threat to communications that the fleet in being is chiefly formidable.

A. T. Mahan, War with Spain, p. 76.

A. T. Mahan, War with Spain, p. 76.

The fleet, the navy, especially the Royal Navy: as, admiral of the fleet.

fleets (flet), a. Skimmed; skim: applied to skim-milk or to cheese made from it: as, fleet milk, fleet cheese. [Eng.]

flegm, n. A simplified spelling of phlegm.

Fleischman's hygroma. See *hygroma.

Fleischman's test. See *test!.

Flem. An abbreviation of Flemish.

Flemingia (fle-min'ji-\(\bar{s}\)), n. [NL. (Roxburgh, 1803), named in honor of John Fleming (died in 1815), a British physician who wrote on indian botany.] A genus of dicotyledonous plants of the family Acanthacex. See Thunbergia.

flemingin (fle-min'jin). n. [Flemingia + in2]

demingin (fle-min'jin), n. [Flemingia + -in².] An orange-red crystalline powder, C₁₂H₁₂O₃, obtained from Moghania congesta (Flemingia congesta of Roxburgh), and used as a dye. Its commercial name is waras (wurus) or wars.

Flemish accounts (naut.), abbreviated or deficient records.—Flemish architecture, fake. See *architecture, *fake1.—Flemish loop. Same as Flemish eye (which see, under eye1).

flemish² (flem'ish), v. i. [Origin uncertain.]

To make a quivering movement of the tail: said of a doct to fasther.

said of a dog; to feather.

flesh, n.—To go the way of all flesh, to meet the fate of all living beings; to die.

flesh, v. II. intrans. To become more fleshy, as one who has been ill and is convalescent: used with up.

fleshen (flesh'n), a. [flesh, n., + -en².] Of flesh; composed of flesh: as, fleshen hearts.

The contest between my fleshen and servile nature and the Law's spirituality of origin.

F. W. Farrar, St. Paul, II. 235 (trans. of Rom. vii. 14).

flesher, n. 5. Same as *flesh-split: commonly applied to sheepskin.

When unsplit it is called a roan; when split in two, the upper half is called a skiver, the under or fleshy half a flesher.

W. Matthews, Modern Bookbinding, p. 37.

Spring fiesher, a long, thin, pliable knife with a handle at each end : in distinction from the ordinary stiff

flesh-glove (flesh'gluv), n. A glove of somewhat rough material specially made for the

same purpose as a flesh-brush.

fleshing (flesh'ing), n. 1. In leather-manuf.,
the process of shaving or scraping the loose
flesh from hides or skins. Sadtler, Handbook
of Indust. Chem., p. 325.—2. The distribution
or the condition of the flesh of an animal.

This bull presents a well-nigh invulnerable body of beef; the holes the critics pick in it are few. He has ample scale and width, and the evenness of his fleshing is quite out of the usual.

13th Bien. Rep. Kan. State Board Agr., 1902-04, p. 228

Green fleshing, the process of removing the flesh from a hide or skin while it is green, or before it has undergone any of the tanning processes. C. T. Davis, Manuf. of Leather, p. 379.

fleshing-beam (flesh'ing-bēm), n. A beam for working out the flesh side of a hide or skin.

fleshing-machine (flesh'ing-ma-shēn"), n. machine which fleshes hides or skins by means of a roller fitted with knives. C. T. Davis,

Manuf. of Leather, p. 148.

flesh-split (flesh'split), n. In split leather, that part of the hide or skin which is nearest the flesh, as distinguished from the *grain-split.

Also called flesher. C. T. Davis, Manuf. of

Fletcherism (flech'ér-izm), n. [Horace Flètcher (b. 1849).] The taking of food only when hungry, with extremely thorough mastication, continued until the bolus of tood is entirely liquefied.

liquefied.

fleurdelised (fler-de-led'), p. a. 1. Adorted or ornamented with fleurs-de-lis.—2†. Branded with a fleur-de-lis (as a criminal).

fleured (flerd), p. a. Decorated with conventional flowers.

fleuron, n. 2. In arch., a floral ornament; specifically, the large conventional flower usually placed in the center of the abacus of a Corinthian capital or classic ceiling-caisson; also, the floreated termination of a Gothic finial finial.

flew (flö), n. [Prob. from *flew2, r., = *flues, r., contained in verbal noun flewing, fluing.]
A layer or fold of cloth as it comes from the loom. R. Marsden, Cotton Weaving, p. 480. flew, n. See *flue*. flewing (flö'ing), n. [Prop. *fluing, prob.

flew⁵, n. See *flue⁸, flewing (fib'ing), n. [Prop. *fluing, prob. (flue (spelled also flew), waste downy matter, etc.: see flue³.] The process of examining cloth for blemishes in weaving by folding it upon the front of the loom as it is unrolled from the cloth-beam. R. Marsden, Cotton

Weaving, p. 479.

1ex (fleks), n. [L. flexus, pp.: see flex1, r.]

A point of contrary flexure or a point of inflexion.

The ordinary singularities of a plane curve would thus be the node, the cusp, the link, and the fex.

Cayley, Collected Math. Papers, V. 521.

Flexibilia (flek-si-bil'i-ë), n. pl. [NL., neut. pl. of L. flexibilis, flexible.] An order of the Crinoidea in which the tegmen is composed of numerous small loosely joined movable pieces. All species are Paleozole and are stemmed except Marsupites and Uintacrinus, from the Cretaceous formation, which are without columns.

which are without columns.

fexibilitas cerea (fiek-si-bil'i-tas se'rē-ā).

[NL., 'fiexibility of wax.'] A form of muscular rigidity in catalepsy in which one can bend the limbs of the patient with a little force, the member retaining the position in which it was last placed. was last placed.

flexil, a. A simplified spelling of flexile.

flexile, a. 2. In bacteriol., applied to filamentous forms of bacteria which are twisted and curved, although retaining their rigidity.

flexing (flek'sing), n. A bending; in geol., a bending or crumpling of layers or strata. flexuosity(flek-sū-os'i-ti), n. [flexuous + -ity.] The quality of being flexuous or full of bends

and curves.

The cerebrum exhibits a decidedly superior degree of fissural complexity with notable flexuosity of the gyres: particularly of the pre-frontal, parieto-occipital, and parieto-temporal areas.

Amer. Anthropologist, Oct.-Dec., 1903, p. 617.

flexural (flek'sū-ral), a. [flexure + -all.] Of or pertaining to flexure or the bending of an elastic solid; producing or tending to produce flexure: as, a flexural stress.—Flexural couple. See *couple.—Flexural strength, the strength of an elastic solid as measured by its resistance to forces tending to bend it.

The transverse or flexural strength of the slates was selected for experiment because of the ease and accuracy with which the tests can be made.

U. S. Geol. Surv., 1897-98, p. 258.

flexure, n. 4. In geol., the folding or bending of strata under compression.—Basicranial flexure, a bend in the embryo at the upper end of the medulla oblongata.—Cerebral flexure, one of the bends or flexures in the embryonic brain.—Cervical flexure, a bend or flexure in

of strains under compression.—Basicranian new responsion to the embryo at the upper end of the medulia oblongata.—Cerebral flexure, one of the bends or flexures in the embryonic brain.—Cervical flexure, a bend or flexure in the neural tube of the vertebrate embryo at the junction of the brain and the spinal cord.—Compound flexure, in decoration of the medium of the substitution of the medium of flexure of the embryonic vertebrate brain around the anterior end of the notochord.—Curve of flexure of the embryonic vertebrate brain around the anterior end of the notochord.—Curve of flexure, See *curve.—Hasticity of flex.

—Hasticity of flex.

—Mesencephalic flexure, in geod., a fold with equal dips on each side of flexure, in geod., a fold with equal dips on each side of its axis.—Unsymmetrical flexure, a feature in geod., a fold with equal dips on each side of the xis than on the other.

flexure-fault (flek *gur-fâlt), n. In geol., a fault



flexure-fault (flek'gūr-fâlt), n. In geol., a fault situated within some portion of a fold and genetically connected with the development

genetically connected with the development of it. Flexure-faults usually occur on the steeper limb of an asymmetrical fold. Overthrust faults are one type of them. Dana, Manual of Geol., p. 109.

flexus (flek'sus), n. [L., a bending, a winding: see flexuous.] A bend or bending.—Halux flexus, a deformity marked by flexion of one joint of the great toe with extension of the other. Also called

flick¹, v. II. intrans. 1. In cricket: (a) To move the wrist or forearm quickly at the moment of delivering the ball: said of the bowler. [Colloq.] (b) To rise quickly from the pitch; bump: said of the ball. Hutchinson, Cricket, p. 110.—2. To flutter; flit, as a bird. R. F. Burton.

flick!, n. 2. In cricket, a quick turn of the bowler's wrist or forearm at the moment of delivering the ball.

flicker¹, s. 2. Specifically, in psychol., an unstable visual perception, occasioned by the intermittence or intensive fluctuation of stim-

Flicker method, the method of flicker photometry (which

The brightnesses of these colors were determined by Rood's flicker-method. Amer. Jour. Psychol., XIII. 139.

Plicker photometer. See ★photometer.

flicker-tail (flik'er-tail), n. 1. The gopher.
[Western U. S.]—2. An epithet popularly applied to the State of North Dakota, in allusion to the gopher, which is very common in that State. *Encyc. Brit.*, XXXI. 256. flier, n. 8. One of the fresh-water sunfishes,

Centrarchus macropterus, found in the southern United States.—9. An apparatus attached to a printing-machine, usually a gang of parallel rods worked by a rocking shaft, which seizes each sheet as it is printed and conveys it to the delivery table.—10. One of the two lowerment leaves of a tablecar plant most leaves of a tobacco-plant.

Flyers, the first two bottom leaves, which are overripe and very trashy.

Yearbook U. S. Dept. Agr., 1899, p. 435.

Fearbook U. S. Dept. Agr., 1899, p. 485.

Blue-pigeon filer. See *blue-pigeon.
filer-frame (fil'er-fram), n. Same as throstle, 2.
filer-yarn (fil'er-yarn), n. Yarn that is spun
on the throstle or fly-frame.
flight!, n. 5. In archery: (c) The course of an
arrow through the air. (d) The distance traversed by an arrow.—10. In mach.: (c) A
wing or scraper, pushed or pulled through
the trough of a conveyer by a chain, to drag
the load through it. (d) A flat bucket or vane
on the periphery of a wheel-pump or on the
chain which it drives. In practice this vane is made
S.—31

to traverse a pipe or box which prevents the water from flowing back, and as such pumps are used for only very low lifts, a fair percentage of the water is carried up.

11. Same as flyboat.—12. In angling, the set of spinning-bats attached by the trace to the reel-line in a spinning-tackle.—13. A primary, flight-feather, or remex: a term commonly used by pigeon-fanciers.—14. The distance a bird may or does fly; the height at which it flies: in these senses, largely figurative.—15. A group of three or more locks situated in such close proximity along a canal that the level of water between any two adjathat the level of water between any two adjacent locks of the series may economically be raised and lowered to produce a lift: in distinction from locks arranged in isolated pairs with considerable distance between the difwith considerable distance between the different pairs. A greater number of lifts, and hence a greater aggregate height of lift, can be accomplished by a given number of locks if arranged in a flight than if the same number are arranged in isolated pairs.—Flight of colors. See *color.—Flight of ideas, the mental state in which ideas follow one another in rapid succession, the patient being unable to keep his mind fixed on any one subject.—Nuptial flight, the flight of the queen bee during which she unites sexually with the males or drones. The queen bee leaves the hive soon after her escape from the brood-cell, and, meeting the males in the air, is fertilized, probably by a number of males, and returns to the hive with her spermatic receptacle filled with male cells, which may retain their vitality and their fertilizing power for the rest of her life. See normal *parthenogenesis. trarthenogenesis.

take flight; fly: an English sporting use.

II. trans. To shoot (wildfowl) in their flight

to or from their feeding-grounds.

flight-conveyer (flit-kon-va'er), n. See *con-

flight-muscle (flit'mus'l), n. One of the muscles used in flight; a wing muscle.

flight-shooting, n. 2. In archery, distance-

cies used in night; a wing muscle.

flight-shooting, n. 2. In archery, distanceshooting with flight-arrows.

flimflam (flim'flam), v. t.; pret. and pp. flimflammed, ppr. flimflamming. [flimflam, n.] To
cheat out of (money), as in making or receiving change or the like. [Slang.]

flimsy, n. 3. A manifold copy of a report or
despatch made on flimsy: reporter?' (copy).

flimsy, n. 3. A manifold copy of a report or despatch made on flimsy; reporters' 'copy'; a duplicate or a triplicate writing made on flimsy.

findosa, findosy (fin-dō'zā, -zi), n. [Australian corruption of Flindersia.] The rasp-pod or crow's-ash, Flindersia australis. See Flinder-

sia and rasp-pod.
fling, n. 6. A sudden or rapid throwing; whipping action; a sidewise motion with respect to the principal direction of motion: as, the *fling* of a connecting-rod.

flinkite (fling'kīt), n. [Named for Prof. Gustav Flink, a Swedish mineralogist.] A basic manganese arseniate occurring in greenish-brown orthorhombic crystals: found in Sweden. For the determination then of the reflecting power, for example of a vermillon disc, it was only necessary to select from the series a gray disc which when combined with it in equal parts gave no perceptible flicker.

O. N. Rood, in Amer. Jour. Sci., Sept., 1893, p. 173.

Direction of flint, n. 4. Sheepskin dried in the sun. Modern Amer. Tanning, p. 175.—5. An abbreviation of flint-glass.—Flint age. See *age.—Flint corn. See *corn!

flint-brick (flint'brik), n. A hard brick made of pulverized flint; fire-brick. Stand. Dict. flint-core (flint'kör), n. Same as core¹, 2 (k). flint-dried (flint'drid), a. In leather-manuf., dried in the sun. Modern Amer. Tanning,

fint fake (flint'flak), n. In archeol., one of the fragments of flint from which, in pre-historic times, implements were made, or one of the chips broken off in shaping implements. flint-flaker (flint 'fla 'ker), n. Same as

*flaker, 2. fint-knappery (flint'nap' :r-i), n. In archæol., a place where flint was knapped or chipped.

flint-paper (flint'pa'per), n. Paper coated with glue and finely crushed quartz or flint, used like sandpaper for polishing. flioma (flē-ō'mā), n. Sebastodes pinniger, one of the rockfishes of the family Scorpænidæ: found on the Pacific coast of the United

States. fipfiap, n. 5. A kind of tea-cake. [U. 5.] flip-glass (flip'glas), n. A small glass goblet from which flip, or toddy, was drunk; also, a large glass tumbler in which flip was mixed and heated. See flip² and flip-dog.

flipper, n. 5. In a sawmill, a steam-operated device for flipping, upsetting, or throwing over a log, cant, or piece of timber from a set of live rolls to other rolls, or for throwing a log out of the log-slide to the log-deck preparatory to rolling it down the sloping deck to the log-loader.

flitch (flich), v. t. [flitch, n.] To cut into flitches: as, to flitch hogs; to flitch halibut. flitch-plate (flich plāt), n. A strap or plate of rolled metal used to connect two or more pieces of a flitch-beam.

float, v. i. - Floated and set fair. See lath floated and set fair, under lath!.

float, n. 12. A timber drag used for dressing float, n. 12. A timber drag used for dressing off roads, especially race-courses.—15. In stereotyping by the plaster process, the iron plate (about half an inch thick) which upholds the baked plaster mold in its dippingpan. The plate and the pan float in a bath of the much heavier medium of melted typemetal.—16. In geol. and mining, loose pieces of ore which have become detached from the parent mass in place and have traveled a parent mass in place and have traveled a greater or less distance. They indicate the presence of a vein and guide the prospector in his discoveries.

In the South claim, beside the marbles supposed to underlie the surface croppings, chrome fron ore is found as "foat" all over the surface, and at one point a deposit of 75 or 100 tons crops above the surface. U. S. Geol. Surv., 1897-98, p. 241.

17. pl. Commercial fertilizers consisting of low-grade phosphates ground to an impalpa-ble powder. They are used with special ad-vantage in connection with green manures vantage in connection with green manures and in composts to render the phosphoric acid more available.— Erdmann's float, in chem., a hollow cylinder of glass, about two inches long and sealed at both ends, of rather smaller diameter than the burette in which it is placed and floating with uniform immersion in the liquid to be measured. It has a transverse mark at about the middle of its length. The graduation of the burette is read off at the level corresponding to the mark upon the float. This little appliance permits a reading to be made without error, due to the meniscus surface of the liquid.

float-boat (flot'bot), n. An old name for a ship's long-boat: so called because in some circumstances it was not hoisted on board, but towed astern; a raft for transporting cargo and passengers.

float-carbureter (flot'kär"bū-ret-er), n. See

*carbureter. float-chamber (flot'chām'ber), n. The chamber

surrounding a float, as in certain forms of float-traps, float-valves, etc.

float-cut (flot'kut), a. Single-cut; cut in one direction only: used in connection with files, to distinguish from double-cut.

floater n. 5 A dead human body found float

to distinguish from double-cut.

floater, n. 5. A dead human body found floating in the water. [U. S.]—6. In Mississippi and Tennessee, a representative in the State legislature who may be elected indifferently from either of two or more counties.—7. A vat in which hides are tanned. C. T. Davis, Manuf. of Leather, p. 403.—8. A cask, buoy, or other hermetically sealed vessel containing messages or records and left to drift on the messages or records and left to drift on the ocean surface in the hope that it will be found by others. See *drifter. Geog. Jour. (R. G. S.), XII. 527.—9. A floating island. [Louisiana.]

Occasionally some of the land is torn away and becomes an island. Such islands are known as flottants or floaters, by the Creoles, and are among the most picturesque sights of these Louisiana lakes, sailing upon them, borne hither and thither by the winds or currents.

Sci. Amer. Sup., May 30, 1903, p. 22,911.

10. On the stock-exchange, a certificate, bond or other paper, especially one not officially funded or listed, that is accepted as a recognized security.

On the Stock Exchange, where slang abounds, 'foaters is a term which would puzzle outsiders. Floaters are exchequer bills and similar unfunded stock.

Temple Bar Mag., Feb., 1871, p. 320.

float-feed (flöt'fed), n. A device in which the flow or feed of a liquid is controlled by the rise and fall of a float; specifically, a device for carburetting an air-current in motor-cars, or in internal-combustion engines, in which the rising of the level of the liquid gasoline raises a valve to close the flow from the inlet, and a lowering of the level opens the flow again. Much used in modern motor-cars. The Automobile, May 2, 1903, p. 478. float-gage (flot'gāj), n. Same as floating gage. floating, n. 8. The process of fattening oysters and scallops by placing them in fresh or brackish water, thus causing the tissues to become distended. See float, n., 1 (e), and float, v. t., 3. Also known as fattening, laying out, and nlumpina.

Plumping.

Floating battery. (b) Same as De la Rive's * ring.

— Floating fly. Same as * dry-fly.— Floating plate.
Same as * float. 15.— Floating policy. See * policy2.

float-key (flot'kē), n. A sliding key; a feather;
a spline; a key which can move axially in a
groove or keyway.

float-quartz (flot'kwarts), n. See float-min-

float-stage (flot'staj), n. A raft; a construction of timber, or of barrels and timber; a floating stage; a buoyant platform held to a vessel's side by painters, or by fore-and-aft guys, and on which footing is obtained by men at work upon the outside of the ship.

float-trap (flot'trap), n. A device for automatically discharging. by the aid of the steampressure, the water of condensation from a tank or pipe-line. The valve is operated by the rising or falling of a float attached to it.

float-valve (flot'valv). n. A valve to which is attached a float for regulating the flow of a liquid. As the level of the liquid changes, the float rises or falls, thus closing or opening the valve.

flob (flob), v. [Also flub; imitative: cf. flop.]

I. intrans. 1. To flop; bang.—2. To puff; swell. Compare *flub.

II. trans. To puff; cause to swell. [Prov. Eng. in all uses.]

flocculate (flok'ū-lāt), v.i. [floccul(us)+-ate².]
To form visible loose, light masses, or flocculi, as of clay in soil-water or of nitrogenous substances in milk. The addition of lime or salt causes soil-water to flocculate; ammonia prevents the flocculation or breaks it up. A sheet of uniform stratus cloud often flocculates with numerous cirro-cumulus or alto-cumulus clouds arranged in rank and file.

flocculency (flok'ū-len-si), n. Same as floccu-

flocculous (flok'ū-lus), a. [floccul(us)+-ous.]
Resembling or of the nature of flocculi; flocculose

docculus, n. 5. in astron., a name given by Hale to cloudy wisps, bright or dark, with which the sun's surface appears to be covered when photographed with the spectroheliograph by the light of some special wave-length, as, for instance, through a line in the spectrum due to some special element such as calcium, hydrogen, or iron. — Pissure of the flocculus. See ** fissure flocculi. Astrophysical Jour., Jan., 1904, p. 42.

flock-duster (flok'dus'ter), n. A duster adapted to shredding and dusting wool flock. Also

flocking (flok'ing), n. 1. The act of removing flocks from a fabric. See flocking-machine.—

2. A collection of damaged or broken cotton fibers from the combing-needles of a cottoncombing machine. It is liable to be formed when the needles are imperfectly adjusted.

flock-opener (flok'op'ner), n. Same as *flock-

flocoon (flo-kön'), n. [F. flocon, floc. L. flocous, flock: see flock².] The filamentous, waxy secretion of certain plant-lice, especially of those of the subfamilies Chermesiuse and Pemphiginæ.

floetz, n. See fletz.

log, v. t.—To flog the clock, to move the hands forward surreptitionsly and thus shorten the time one has to be on duty. [Slang.] flog. v.

flogger, n. 3. In bridge, a separate score-sheet or-book in which the winnings and losings on each rubber are entered. Also called washbook.

book.
flood, n.— Main flood. (a) High water. (b) A large, broad body of water; main tide. (c) The main ocean; main sea. N. B. D.
flood, r. t. 2. See *splash, 4.
flood-arch (flud'ärch), n. One of the arched openings in a bridge or viaduct over a valley or lowland through which flood-water may distinction. pass during high water: used in distinction from a channel arch, which spans the channel which rests on the floor and supports the tooland through which water continuously or usu-

ally flows.

Rood-board (flud'bord), n. One of several boards or timbers placed horizontally one on another between suitable supports or piers, and another between suitable supports or piers, another between suitable supports or piers, and such as fly-wheels, etc., the bed of the lathe being cut away to permit such large work to swing.

Roorway (flor'wa), n. In bridges, that part of the loose silk which envelops the construction which is immediately concerned of the silkworm. flood-board (flud'bord), n.

usually on the top of a permanent dam, wall, dike, or bulkhead, to confine flood-waters temporarily.

flood-dam (flud'dam), n. See *splash-dam. flood-ground (flud'ground), n. The portion of a river valley which becomes submerged in times of flood; a flood-plain or river-flat. Dana,

times of flood; a flood-plain or river-flat. Dana, Manual of Geol. (4th ed.), p. 193.

flood-hatch (flud'hach), n. A sluice or gate, usually rectangular and of timber, sliding in vertical grooves or ways in a bulkhead or dam impounding water. for the purpose of closing a flood-opening; a flood-gate: to be opened by raising during floods, to prevent the water above the dam from reaching an undesirable height

flooding, n. 3. A method of applying water floreate, floriate (flō'rē-, flō'ri-āt), v.; pret. for irrigation by permitting it to spread and pp. floreated, floriated, ppr. floreating, over nearly level ground, with or without refloriating. I. intrans. To flower out; blossom. over nearly level ground, with or without restraining checks or small dikes built of earth. In wild phodding the water is turned upon the field and guided by a hoe or shovel, without the previous construction of checks. In the check or block system the land is graded to a certain extent and the water controlled by checks or dikes.

strument for indicating the height of water in

a stream subject to floods.

a stream subject to noous.

flood-pipe (flud/pip), n. A pipe by means of which some place is flooded.—Magazine flood-pipe (naval), one of a set of pipes leading from a seavalve to a magazine by means of which sea-water is admitted to flood the ammunition-rooms when the magazine flood-cock is opened.

flood-plain (flud'plan), n. A nearly level alluvial plain formed by deposition of land waste by graded or aggrading streams during times

Sweeping up from the sandy shores of the sea across marshes, flood-plains and well-watered forests.

Pop. Sci. Mo., March, 1902, p. 387.

flood-plane (flud'plan), n. The highest level to which water rises during a time of flood. Such levels are often recorded by flood-marks, or bench-marks cut into stone walls, wooden posts, or buildings.

as foor-timber. (c) In iron ship-building, the bottom part of a frame, consisting of the floorplate, frame-bar, and the reverse frame-bar.—
10. A unit formerly used in the measurement of excavation and embankment. Its magnitude was different in different localities, but was generally equivalent to a prism of earthwork 18, though sometimes 20, feet square, and 1 foot in depth.

flooring-machine (flor'ing-ma-shen"), wood-working, a machine for planing and finishing flooring and finishing ing flooring, ceiling, siding, and casing. It is

essentially a planer and matcher.

flooring-plate (flor'ing-plat). n. One of the plates which underlie the ambulacral grooves in the class Edvicasteroidea. They are mostly arranged in double series, and resemble the ambulacral ossicles of the Asteroidea.

floor-light (flor'lit), n. A piece of glass, or a frame with many pieces of glass, let into a floor to allow of the transmission of light from

above.

floor-plan (flor'plan), n. In arch., a drawing which shows the plan of one story, especially with reference to those parts which are in connection with the floor rising out of it. Thus the dotted lines indicating patterns of the ceiling and all indications of objects several feet above the floor have no necessary place in a floor-plan.

floor-plate (flor'plat), n. 1. A foot-plate; a plate, usually of iron or steel but sometimes built up of boards, used as a floor around engines and boilers. The use of such plates permits of easy access to pipes placed beneath them, as they are usually held in place only by their own weight.

A massive plate usually of cast iron, with slots on its upper face, forming part of the floor of a machine-shop, so that work can be holted to it.

floor-push (flor'push), n. loor-push (flor'push), n. An electric push-button inserted in the floor of a room and operated with the foot.

A heavy standard

rest for a hand-lathe. It is used by pattern-makers for turning large pieces, such as fly-wheels, etc., the bed of the lathe being cut away to permit such large work to

cerned with the floor, as the pavement, stringers, and floor-beams, and in railroad-bridges also the ties, rails, and guard-rails: used in distinction to the trusses or arches, whose function it is to support the floorway.

The floor of the bridge, which is supported upon the crown of the arches and upon steel bents extending from the arches to the floorneay, provides for a driveway 22.5 feet in width, and two footways for foot passengers 88 feet in width, making a total width of floorneay of 41.3 feet.

Sci. Amer. Sup., May 23, 1903, p. 2284.

floose (flös), n. See *falus.

Floral zone. See *zone.

Floral gone. See *zone.

floran (floran), n. [Of undetermined (Connish!) origin.] In mining, tin ore which is of fine grain or which has been very finely stamped.

Baring-Gould.

II. trans. To decorate with flower-patterns. floreation, floriation (flo"re-, flo"ri-a'shon), n.

Decoration with flower-patterns.

Florentine, n. 4. [l.c.] Same as *fanchonnette.

Florentine school of painting.

Florentine school of scinting. See *painting.

Florentine school of scinting. See *acculpture.

Florentine twill, n. Same as *cassimere-twill.

checks or dikes.

flooding-dam (flud'ing-dam), n. Another name for *flood-dam. Dialect Notes, II. vi. flood-loam (flud'lōm), n. A fine silt deposited on the flood-plain of a river in time of overflow. Science, June 21. 1901, p. 988.

floodometer (flu-dom'e-ter), n. A gage or inhort. with reference to flowers which have the petals (or in composites the rays) multithe petals (or in composites the rays) multi-plied so as to fill the whole disk; double-flow-ered; double.

florescence, n. 2. A flowering or blo out; growth; development; maturity. 2. A flowering or blossoming

The age of greatest [artistic] florescence all over the area

florette (flō-ret'), n. [F., dim. of fleur. OF. flor, flower.] A French coin of the time of Charles VI., equal to 20 deniers: so called from the three fleurs-de-lis crowned on the obverse.

floretum (flō-rē'tum), n.; pl. floreta (-tā). [NL.,

(L. flos (flor-), flower, + -etum.] A botanical
garden limited in its scope to the scientific cultivation of flowers.

tivation of flowers.

Plorida bean, caper-tree, etc. See *hean!, etc.—Florida clover. See Richardsonia.

floridean (flo-rid'o-an), a. Of or belonging to the Floridea.—Floridean pit. See *pit!.

Floridian series, in Amer. geod., a series of Pliocene Tertiary beds extending through the Atlantic States. They abound in marine fossils, and have been divided into a number of subordinate groups.

florid-song (flor'id-song), n. Figurate or contrapuntal music, as distinguished from plain-gong.

sona.

florigraphic (flō-ri-graf'ik). a. [L. flos (flor). flower, + Gr., ράφιν, write.] Of or pertaining to flower-writing or literature in regard to flowers. G. S. Hull, Adolescence, II. 209. florin. n. 5. A Polish silver coin of the value

florin, n. 5. A Polish silver coin of the value of about 12 United States cents.— Double florin, an English silver coin of the value of four shillings, authorized in 1887.

floristic (flō-ris'tik), a. [flora + -istic.] Having in view, or otherwise related to, a flora: opposed to accological. See *phytogeography. floristically (flō-ris'ti-kal-i), adv. In a floristic view. F. E. Clements, tic view. F. E. Clements.
floristics (flo-ris' tiks), n. pl. Same as floristic

≠phytogeography.

The species, considered primarily with reference to numbers, would be represented by distribution or storics.

Pound and Clements, Phytogeog. of Neb., p. 15. florula (flor'ū-lā), n.; pl. florulæ (-lē). [NL. dim. of flora, flora.] A little flora, as of a limited area or, in fossil plants, of a particular locality: either the plant content or the systematic exhibit.

florula (flor'ūl), n. [NL. florula.] Same as *florula. Amer. Jour. Sci., Dec., 1903, p. 417. flory-boat (flo'ri-bōt), n. [Origin of flory-unknown.] A small boat employed in carrying passengers between a vessel and the shore floscelle (flo-sel'). n. [L. floscellus, dim. of flos, flower.] In certain of the echinoids or sea-urchins, an arrangement of the ambulacral rosette around the peristome in which the ambulaera are depressed and the intervening

flosculus (flos'kū-lus), n.; pl. flosculi (-li). [L. flosculus, a little flower: see floscule.] A tubular organ with a central style at the anus of

floss-silk, n. 2. Loose or broken filaments of silk from the cocoons.—3. A soft, coarse yarn made from silk and used in making shawls, bands, and ordinary silk fabrics.

flotation, n. 3. The act of launching, or 'floating,' a new enterprise, a loan, a new issue of

ing, a new enterprise, a loan, a new issue of stocks or bonds, or the like.— Center of flotation. See *center1.— Curve of flotation. See *centere1.— Surve of flotation, in naval arch., in the theory of the unresisted rolling of a vessel. the surface formed by the envelop of the load-water planes of a vessel.

flounce2, n. 2. In saddlery, a covering for a pistol-holster, either of leather or bearskin.

pistol-holster, either of leather or bearskin.

flounder², n.—Arctic flounder, a small flounder, Liopsetta glacialis, found in arctic seas.—Eel-back flounder, a species of flounder, Liopsetta glacialis, found in arctic seas.—Eel-back flounder, a species of flounder, Liopsetta putnami, found along the New England coast; the female is nearly scaleless.—Four-spotted flounder, a species of flounder, Paralichthys oblongus, found along the Atlantic coast from Cape Cod to Cape Hatterss.—Peacock flounder, a large species of flounder, Platophrys lunaius, found in the West Indies; it is remarkable for the curved streaks of blue scattered over the body.—Pole flounder, the deep-sea flounder, Glyptocephalus cynoglossus, of the North Atlantic.—Southern flounder, Paralichthys lethostigma, a flounder found on the South Atlantic coast of the United States.—Starry flounder, a large, coarse flounder, Platichthys stellatus, with black spots; found in the North Pacific.—Summer flounder, the common large flounder, Paralichthys dentatus, found from New York southward along the Atlantic coast. See cut at Paralichthys.—Winter flounder, the small rough-scaled flounder, Pseudopleuronetes americanus, common along the New England coast.

flour, n.—Clear flour, a trade-name for the third of the

notices americanus, common along the New England coast.

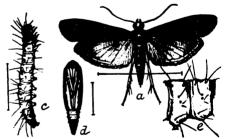
10UI, n.—Clear flour, a trade-name for the third of the three grades into which wheat flour is commercially divided. See patent *flour.—Graham flour, unbolted wheat flour or wheat meal, retaining the bran: used in making brown bread (which see, under bread!).—Patent flour, flour made from wheat by roller-milling instead of by grinding between millstones; the first of the three grades into which flour is commercially divided.—Roller-process flour, flour made by the roller process (which see, under *process).—Standard flour, as defined by the United States Department of Agriculture, flour prepared from standard wheat, and containing not more than 13.5 per cent. of moisture, not less than 8.5 per cent. of protein, and not less than .4 per cent. of ash.—Straight flour, a trade-name for the second of the three grades into which wheat flour is commercially divided. See patent *flour and clear *flour.

10 ur-beetle, n. 2. Any one of several beetles of the genus Tribolium, as T. ferrugineum and T. confusum.—Broad-horned flour-beetle, a cosmo-

of the genus Tribolium, as T. ferrugineum and T. confusum.—Broad-horned flour-beetle, a cosmopolitan beetle, Echocerus cervatus, limited in its distribution in the United States to the sea-coast towns, and found in ground cereals of various sorts.—Confused flour-beetle, a cosmopolitan beetle, Tribolium confusum, occurring in grain of all kinds, usually following the attacks of theirue grain-weevils. Its principal damage is done to flour.—Depressed flour-beetle, a cosmopolitan beetle, Palorus subdepressus.—Rust-red flour-beetle, the most barts of the world.—Siender-horned flour-beetle, Echocerus maxillosus.—Email-eyed flour-beetle, the smallest of the tenebrionid flour-beetles, Palorus ratze-burgi.

four-moth (flour'môth), n. Any one of several small moths whose larvæ feed on flour, as the Indian-meal moth, Plodia interpunctella, or the flower-show (flou'er-shō), n. A public exhimeal snout-moth, Pyralis farinalis.— Mediterbition of flowers and flowering plants.

ranean flour-moth, a cosmopolitan phycitid moth, flow-gate (flo'gāt), n. A long gate at the side



Mediterranean Flour-moth (Ephestia kuehniella). a, moth; c, larva; d, pupa, enlarged; c, two joints of larva, more enlarged. (Chittenden, U. S. D. A.)

flow, v. i. 9. In the differential calculus, to enlarge (or diminish) continuously, that is, by

infinitesimal increments (+ or -).

flow!, n. 9. A quicksand. [Scotch.]—Ebb-andflow structure. See *ebb.—Flow of marble, in geol.,
the gradual bending or deformation of marble, either
minutely when in blocks at the surface or in mass and
more extensively when buried beneath a heavy load of
overlying strate; due to the plasticity developed under
strain. Nature, July 9, 1903, p. 231.—Tube of flow. See

viscous solid such as asphalt.—zone of flowage, in geol., the deepest of the three zones into which the earth's crust is conceived to be divided with regard to the deformation of rocks. In the zone of flowage the rocks are confined on all sides, yet loaded beyond their resistance as determined at the surface. Earth-movements tance as determined at the surface. Earth-movements therefore develop a viscous flow in these solids. The upper limit of the zone of flowage varies in depth, according to the nature of the rock, from 500 meters for soft shales to 10,000 meters for firm granites. The correlative zones are the zone of fracture and the mixed zone of fracture and flowage. The terms were suggested by C. R. van Hise.

In the flow-him of flowage in the three zone of practure and flowage. The terms were suggested by C. R. van Hise.

flow-blue (flo'blö), n. In ceram., blue color which spreads or flows more or less through the glaze which is placed upon it. Also called Aown blue.

flow-dike (flo'dik), n. A shallow artificial

channel to convey running water: generally employed in drainage. [Obsolete.]

Flower of chivalry. See *chivalry.—Flowers of arsenic, of ocher. See *arsenic, *socher.

flower-basket (flou'èr-bàs'ket), n. 1. A basket in which flowers are held.—2. A hexactinellid spronge. Eunlectella generallum. Also lower-basket (flou'er-bas'ket), n. 1. A basket in which flowers are held.—2. A hexactinellid sponge, Euplectella aspergillum. Also called Venus's flower-basket.

Also flue-dust (flö'dust), n. The dust which collects in the flue of a metallurgical furnace, and lower-baskle (flou'er-baskle), n. Any one of

flower-beetle (flou'er-be'tl), n. many beetles which habitually frequent or many beetles which habitually frequent or feed upon flowers. A number of scarabeid beetles of the tribe Cetoniinæ have this habit, as the hermit flower-beetle, Osmoderma eremicola, the rough flower-beetle, Osmoderma eremicola, the rough flower-beetle, Euphoria inda, and the sad flower-beetle, Euphoria metaneholica. Many of the Malachiidæ and Cleridæ are also flower-beetles, and certain species of the firefly family, Lampyridæ, particularly of the subfamily Telephorinæ, which contains the so-called soldier-beetles, feed on pollen and are called flower-beetles.— California flower-beetle, a western United States scarabeid beetle, Hoptia callipyye, which feeds on flowers. which feeds on flowers.

flowerer, n. 2. A person employed to paint flowers on pottery. [Eng.]

This last was usually done by women 'fowerers,' who scratched a rough floral pattern into the body of the ware and rubbed a little zaffre or powdered cobalt glass over the incisions, a kind of ceramic tattooing which was largely practised at Burslem about 1750.

R. L. Hobson, in Burlington Mag., IV. 148.

Canada to North Carolina.

Gue-net (flö'net), n. Same as * flue8. Habak-kuk, i. 15 (margin).

fluent, a. 4. In fluxions, enlarging (or diminishing) continuously, that is, by infinitesimal increments (+ or -).

flowering, n. 3. The spawning of pelagic floorpipe (floorpipe), n. In organ-building. See fishes, which sometimes cover large areas of pipel, 2. the surface of the sea with their spawn.—4. flue-register (flö'rej'is-ter), n. In organ—The appearance of the surface of lakes and building, same as flue-stop. other large bodies of fresh water due to the flue-scraper (flö'skrā'per), n. A device for occurrence of considerable quantities of algee, cleaning the small flues of a multiple of a mu usually blue-green forms.

flower-midge (flou'er-mij), n. A midge that infests flowers.— Clover flower-midge an American cecidomylid fly, Dasyneura trifolii, which breeds in the flowers of red clover. Formerly called clover seed-midge. flower-of-Jove (flou'ér-oy-jov'), n. The rose-campion, Lychnis Flos-Jovis. Also Jupiter's-

flower-of-the-gods (flou'er-ov- $\overline{\Psi}$ He-godz'), n. See $\overline{\Psi}$ Disa, with cut.

flows into the mold at several points.

vessel, usually in streaks of different colors.

flow-line (flo lin), n. In igneous rocks, one

of a number of streaks or bands of different color, or parallel arrangement of crystals, which indicate the direction of differential flow or planes of movement along which the molten magma spread or flowed during its eruption just before its solidification. See fluidal structura.

flow-structure (flo'struk'tūr), n. Same as

flox, n. A simplified spelling of phlox. F. L. S. An abbreviation of Fellow of the Lin-

Ephestia kushniella, which does great damage in flourmills. The larvæ form cylindrical silken tubes in which they feed. The infested flour becomes felted together and lumpy, and clogs the milling machinery.

flour-weevil (flour'wē'vl), n. Any one of the flour-beetles.

The larvæ of any

The larvæ of any of building-stone in order to close the pores and protect the stone from disintegration.

and protect the stone from disintegration.

fluate (fič'āt), v. t.; pret. and pp. fluated, ppr.

fluating. To treat with the so-called 'fluate'
solution. See * fluate, 2.

fluavil (fič'a-vil), n. [Appar. < L. flu-ere, flow, +
F. av(al), down, +-il.] That portion of crude
gutta-percha which is dissolved by boiling absolute alcohol and which remains in solution

fluations of the construction of the confidence of the confid

tible.

flowage, n. 2. In mech., gradual internal flub (flub), r. [Var. of "flob.] To bang; flop. motion or deformation, without fracture, of a [Prov. Eng.]

or enlarged section in an exhaust-flue, formed to secure a thorough mixture of the fuel-gas with oxygen, or else to diminish the velocity of flow of the gas, so that dust or solid matter carried with it may have time to settle and be precipitated out.

flue-cure (flö'kur), r. t. In the tobacco industry to cure (tobacco) in a close barn by artificial heat distributed by flues of stone, brick, or

which contains some very fine particles of metal, usually in the form of oxids.

flue-gas (18'gas), n. Any mixture of gases from the flues of smelting-works or other chemical factories.

flue-heater (flö'hē'tèr), n. 1. heating a flue or air-shaft to promote the circulation of air.—2. A heater for feed-water or other material placed in the channels or passages carrying hot gases from a furnace.

passages carrying not gases from a landact.

fuellen, n.—Sharp-pointed fuellin, Kickzia Elatine, a plant of the figwort family having hairy stems and sharp-pointed triangular hastate leaves, native of Asia, but naturalized in Europe and in North America from Canada to North Carolina.

cleaning the small flues of a multitubular boiler. It consists of pieces of sheet-metal twisted into a helix of the diameter of the inside of the flue, or of brushes of wire or scraping-edges, and fastened to a rod long enough to reach through the flue from end to end. Modern scrapers are often revolving devices, driven by a motor and pushed through the tube while in motion.

flue-sheet (flö'shet), n. The plate into which the flue or flues of a boiler are fastened. In some cases it is also the tube-sheet.

flue-way (flö'wā), n. The opening through a furnace or ventilating flue; a furnace or ventilating flue.

flow-gate (florgat), n. A long gate at the side of a foundry-mold from which the molten metal flows into the mold at several points.

flow-gate (florgat), n. A long gate at the side of a foundry-mold from which the molten metal flows into the mold at several points.

flows into the mold at several points.

flow-glaze (flö'glaz), n. A glaze on pottery or porcelain which flows down the sides of the vessel, usually in streaks of different colors.

flow-line (flö'lin), n. In igneous rocks, one

flow-line (flo'lin), n. In igneous rocks, one manner. A. E. Barr, in The Century, XXXIX.

> luid. I. a.—Fluid measure. Se measure (which see, under measure). Same as apothecaries'

measure (which see, under measure).

II. n.— Caphalorachidian fluid. Same as cerebrospinal fluid.—Coley's fluid, a serum containing the toxins of the crysipelas streptococcus and of Bacillus prodigiosus, employed in the treatment of sarcoma and other malignant growths.—Plux of a fluid, in phys., the flow in cubic certimeters per second through any imaginary surface in a fluid mass; the surface integral of fluid velocity over such a surface.—Pasteur's fluid, a nutrient solution used for the cultivation of bacteria and other micro-organisms, supposed to contain all the elements of protoplasm.

fluidally (flö'i-dal-i), adv. In the manner of

fluidiform (flö-id'i-fôrm), a. [L. fluidus, fluid. + forma, form.] Of fluid form; gaseous; + forma, form.] O ethereal; intangible.

fuidism, n. 2. Same as humoralism.

fukel, n. 6. A result of accident or lucky chance rather than of skill.—7. A failure, as of a yacht-race for lack of wind.—Mush-room fluke, the circular iron flange or umbrella shape at the end of a mushroom-anchor shank or stem. A mush-room anchor has no stock. room anchor has no stock.

fluke1, v. t. 2. In shooting, to hit by a chance

Fluking kangaroos at 300 or 400 yards is not exhibit ating sport, as anyone might understand if he tried catapulting grasshoppers at 50. F.~G.~Aflalo, in Smithsonian Rep., 1901, p. 685.

fluke², n.—Bronchial fluke. Same as lung *fluke.— Indian liver-fluke. Opisthorchis noverca (Braun, 1903), a trematoid worm found in the liver of man and dogs in India. It is from 9 to 12 millimeters long.—Lung fluke, Distomaringeri.

secured by excavation and embankment. To build a flume or artificial channel and its supporting construction.

The original scheme was to develop the Coquitian by funning along the steep hillside a distance of about seven miles.

Elect. World and Engin., May 16, 1903, p. 837.

fluming, n. 2. An artificial channel and its supporting construction, generally of timber: used to conduct a stream or canal in situations where an earth or masonry channel can-

not readily be secured.

flunky, n. 4. A cabin waiter on a passenger-VASSA

a compound of aluminium fluoride with the fluoride of a more electropositive metal, as the mineral cryolite, sodium and aluminium fluoride.

fluoniobate (flö-ö-ni'ō-bāt), n. [fluo(ride) + niob(ium) + -atel.] In chem., a compound of niobium fluoride with a fluoride of a more electropositive metal: also called niobifluoride or niobiofluoride.

fluoradelite (flö-o-rad'e-līt), n. Same as *til-

fluoramide (flö-ō-ram'id), n. In chem., an explosive liquid of oily consistency said to have been obtained by electrolysis of a solution of ammonium fluoride. The name implies the presence of hydrogen as a constituent. The substance has also been called nitrogen fluoride, on the assumption that it consists of nitrogen and fluorin only. Its existence is doubtful.

fluoran (flö' $\bar{0}$ -ran), n. [fluor(ide) +-an.] A crystalline compound, C_{20} H_{12} O_3 , formed together with phenolphthalein, of which it is the

annyarid.

fluoranthene (flö-ō-ran'thēn), n. [fluor(ide) + Gr. $\delta\nu\theta_{0c}$, flower, + -ene.] A solid hydrocarbon, C_{15} H_{10} , found in coal-tar, in American petroleum, and in the organic distillate obtained in the preparation of mercury from its ores in Idria, whence its other name, idryl. It melts at 110° C. Sadtler, Handbook of Indust. Chem., p. 394.

fluorapatite (flö-ō-rap'a-tīt). n. See *chlorap-

fluorate (flö'ō-rāt), n. [fluor(ide) + -atel.] In chem., same as fluate: the correct modern term is fluoride.

term is fluoride.

fluorene (flö'ō-rēn), n. [fluor(ide) + -ene.] A solid hydrocarbon, C₁₃ H₁₀, contained in portions of coal-tar boiling at 300-400° C. If not quite pure it has a violet fluorescence. Also called orthodiphenylenemethane or 2.2'-methylenebiphenyl. It melts at 113° C.

Fluorescence absorption. See *absorption.

Pluorescente absorption. See *absorption.
Pluorescent screen, a screen usually of some material pervious to X-rays, one side of which is coated with calcium tungstate, calcium sulphid, barium platino-cyanide, or other substance which fluoresces under the action of these rays or under other influences. When used in X-ray examinations shadows appear on the screen. Similar screens are used in the spinthariscope, and in experimentation on luminescence. See also *fluoroscope.

mentation on luminescence. See also windorescept.

fluorescer (fiō-ō-res'er), n. A fluorescent substance. Nature, March 31, 1904, p. 523.

fluorescin (fiō-ō-res'in), n. [fluoresce + in².]

A colorless crystalline compound, C₂₀ H₁₄ O₅, prepared by the action of zinc dust and sodium hydroxid on fluorescein. It melts at 126° C.

fluor-herderite (fiō-or-her'der-īt), n. See

fluoridation (flö'ō-ri-dā'shon), n. In geol., the process whereby fluorin combines with bases, and more especially with calcium, to

yield fluorides. Van Hise, Monographs, XLVII. ii. 204.

fluoride, n.—Silicon fluoride, in chem., a gaseous substance obtained by heating a mixture of fluor-spar and concentrated sulphuric acid with silica or any silicate. It is a colorless gas of irritant odor and high density, decomposed by water with formation of a jelly-like mass of silica or a silicic acid.

Distomaringeri.

fluky, a. 3. Uncertain; shifty: said of the wind. Also flooky.

flume, n. 4. An inclined trough in which water runs, used in transporting logs or timbers.—Rating flume, a conduit or long box, usually rectanglar in section, forming part of an irrigating canal or ditch and arranged for the purpose of showing the quantity of water flowing through the canal or ditch. The flume is rated by suitable measurements, that is, the relation of height of water to quantity in the flume is ascertained and indicated by marks on the sides. H. M. Wilson, Irrigation Engineering, p. 93.

flume, v. I. trans. 2. In lumbering, to transport, as logs or timbers, by a flume.

II. intrans. 1. To conduct a channel or canal, by a flume, along an artificial temporal process of the continuous and in discassion in situations where an individual process. The conduct of the continuous conducts of the continuous cassilla tempta bortunta decomposed water with formation of silicondus continuous cassilla tempta bortunta cassilla tempta bortunta cassilla tempta bortunta cassilla tempta bortunta ta continuous cassilla tempta bortunta ta continuous cassilla tempta bortunt

in its chemical bines even in darkness onation; silicon, boron, arsenic, and including solicon, and including solicon, boron, arsenic, and including solicon, and including solicon, boron, arsenic, and in the form of ozone.

Alter the pekoe tip (see *pekoe) and the younger leaves a new flush is secured from axillary buds by stimulative culture or by removing the greater part of the plant's foliage.

Solicon, solicon, solicon, solicon, and including so

fluorography (flö-ö-rog'ra-fi), n. [fluor(ide) + Gr. -γραφία, ζγραφέιν, write.] The process of etching on a surface of glass by means of hydrofluoric acid.

fluorade.

fluocalcium (flö-ō-kal'si-um), n. In chem., same
as *calcium fluoride.

fluoride.

fluorol (flö'ō-rōl), n. [fluor(ide) + -ol.] A
two per cent. solution of sodium fluoride: used as an antiseptic in place of corrosive sublimate and formaldehyde.

fluoroline (flö'o-ro-lin), n. [fluorol + -ine².] A volatile base, $C_{12}H_{13}N$, found in paraffinoil from lignite coal-tar. It has the odor of auinoline.

fluorometer (flö-o-rom'e-ter), n. An apparatus for the determination of fluorin by the action of sulphuric acid upon a mixture of the substance with powdered quartz, the volume of the silicon tetrafluoride evolved being measured.—Dennis fluorometer, an apparatus used in conjunction with X-rays in locating foreign substances in the body, or determining the nature of fractures or dislocations.

dislocations.

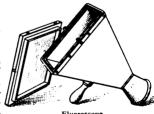
fluorophore (flö'ō-rō-fōr), n. [fluor(escence) their faces.

+ Gr. -φορος, ζφέρειν, bear.] An atomic group Flustrella (flus-trel'ä), n. [NL.] The typithe presence of which in the molecule of a cal genus of the family Flustrellidæ. Gray,

1848.

+ Gr. σκοπείν,

view.] An aparatus signed for observing the effect of the Röntgen rays by means of their action on a fluoressubcent



stance. It consists essentially of a tube or box closed at one end by a screen coated with a fluorescent substance, as tungstate of calcium. When an object, as the hand, placed before a vacuum-tube is observed through the fluorescope, the shadows of its parts that are not transparent to the X-rays are seen on the fluorescent screen.

fluoroscopic (flö'o-ro-skop'ik), a. Of or pertaining to the fluoroscope or to fluoroscopy. fluoroscopy (flő-ő-ros'kő-pi), n. The art of using the fluoroscope or of examining by means of a fluorescent screen, the shadows of bodies exposed to X-rays.

fluorotype (flö'ō-rō-tīp), n. [fluor(ide) + Gr. flite-douce (flüt'dös), n. [F.] An old name for rimoc, type.] In photog., a photographic process in which sodium fluoride is used in initiating it.

sensitizing the paper.

fluoryl (flo o-ril), n. [fluor(ide) + -yl.] Same
as *fluoroformol.

fluosilicate, n. 1. (b) In chem., a compound of silicon fluoride with a fluoride of a more electropositive element, as Na₂SiF₆=2NaF+ SiF₄; also called silicofluoride.

Van Hise, U. S. Geol. Surv., fluotantalate (flö-ō-tan'ta-lāt), n. [fluo(ride), VII. ii. 204. + tantalum + -ite².] In chem., a compound of tantalum fluoride with a fluoride of a more electropositive metal: also called tantalo-

fluotitanate (flo-ō-ti'tan-āt), n. [fluo(ride) + titan(ium) + -ate¹.] In chem., a compound of titanium fluoride with a fluoride of a more electropositive metal: also called titanifluoride or titanofluoride.

or tutunostuorede.

Fluotitanio acid, in chem., a compound of titaninum fluoride with hydrogen fluoride (hydrofluoric acid), H₂TlF₆ = 2HF + TlF₄; also called hydrogen titanifluoride or titanofluoride. It may be viewed as derived from metatitanic acid (H₂TlO₃) by replacement of oxygen

fuozirconate (flö-ō-zer'kō-nāt), n. [fluo(ride) +zircon(ium) + -ate¹.] In chem., a compound

flush-board (flush'bord), n. Same as *flash-

flush-gate (flush'gāt), n. A gate, sluice, or valve placed in a dam, reservoir-wall, or pipe-system, to be opened when desired to flush out the reservoir, the channel below the reservoir, or the pipe-system.

Next to the waste gates comes the fush gate, which is 16 ft. wide, and has its top edge at the same elevation when in normal position as the top of the main dam.

Elect. World and Engin., Feb. 13, 1904, p. 307.

flushing-tower (flush'ing-tou'er), n. A post-or after-condenser; a condenser, in the form of a vertical box, used in the manufacture of sulphuric acid to condense the acid which is not condensed in the first condenser.

flush-joint (flush joint), n. In masonry, a joint between stones or bricks which has been filled with cement or mortar so as to be flush with their faces.

compound is supposed to cause the exhibition of fluorescence. Such groupings are the ring flustrellidæ (flus-trel'i-dē), n. pl. [NL., < structures in pyrone, acridine, anthracene, etc. Nature, Nov. 5, 1903, p. 15.

fluorescence (flö'ō-rō-skōp), n. [fluor(escence)]

cause the exhibition fluorescence (floorescence) flustrellidæ (flus-trel'i-dē), n. pl. [NL., < fluorescence) flustrellidæ (flus-trel'i-dē), n. pl. [NL., < fluorescence) flustrellidæ (flus-trel'i-dē), n. pl. [NL., < fluorescence) flustrellidæ (flus-trel'i-dē), n. pl. [NL., < fluorescence] flustrellidæ (flus-trel'i-dē), n. pl. [NL., < flustrellidæ (flus-trel'i-dē), n. pl. [NL., < fluorescence] flust

tous gymnolematous Polyzoa, having the zocecia immersed in a gelatinous crust, the orifice bilabiate, and larvæ with a bivalve shell. Flustrella is the typical genus.

flutel, n., 1. and 2. The variety of names applied both to flutes proper and to fluty stops in the organ is very great. Thus the older direct flutes are also called straight, à-bec, or beaked: these were made in different sizes, with different fundamental tones, and were then distinguished as discant, alto, tenor, and bass flutes. The transverse flute is also called traverse flute, flute douce, fluto traverso, flute traversière, German flute, cross-flute. In the modern orchestra, besides the standard flute in C, the smaller size, called the octave or piecolo flute, is used; but in military bands several varieties are found, as the terz or tierce flute, and the fourth or quart flute, the fundamental tones of which are Ep and F respectively. The old flute d'armour was an alto flute, its fundamental tone being A. Organ-stops of a fluty tone are of two kinds, with stopped or with open pipes and belonging properly to the stopped diapason. Unfortunately, most of the names used for these stops either have no fixed and recognized meaning or are purely fanciful.—Cornoflute.—Bounded flute.—See *kcorno-flute.—Double flute, a direct flute with two tubes and (usually) a common mouthpiece.—Onion flute, a toy musical instrument of a sort represented by the kazoo.—Ewiss flute. (a) An old name for the transverse flute. (b) In organ-building, a fluestop with open metal pipes of narrow measure and penetrating tone.

flute-douce (flüt'dös), n. [F.] An old name for

flute-organ (flöt'ôr'gan), n. A barrel-organ fitted with a set of pipes of flute-like tone. flute-pipe (flöt'pip), n. In organ-building: (a' Same as *flue-pipe. (b) Specifically, a pipe in any one of the many flute-stops.

futer, n. 3. In laundry-work, a hand- or power-machine, consisting essentially of a pair of

corrugated rolls, used in forming flutings in fabrics and clothing.

Same as flute-bit. flute-tool (flöt'töl), n.

flute-tool (flöt'töl), n. Same as flute-bit.

fluting, n.—Magnesium fluting, a group of lines in
the spectrum of magnesium fluting, a group of lines in
the spectrum of magnesium which present the appearance of the fluting of a column.

Fluvial formation, a deposit of river sediment along
the lower course of a stream formed through inability
of the stream to carry away its overload; an accumulation of the sediments of a river within its own
valley.—Fluvial period. See *period.

fluvioglacial (flö"vi-ō-glā'shial), a. [L. fluvius,
a river, + glacies, ice, + -ul.] Pertaining to
the combined action of rivers and glaciers.

Science, June 21, 1901, p. 988.—Fluvioglacial
theory, in geol., a theory which involves the action of
glacial ice, of flowing water, and sometimes also of wind,
and which is advanced to explain certain superficial deposits which have no connection with the underlying
rock. The loess of China is an example.

fluviograph (flö'vi-ō-graf), n. [L. fluvius, a

rock. The loess of China is an example.

fluviograph (flö'vi-ō-graf), n. [L. fluvius, a river, + Gr. γράφειν, write.] An instrument devised by W. M. Fuller for measuring and recording automatically the rise and fall of a river. The record is made at an observation station by the aid of an electric attachment. fluviolacustrine (flö'vi-ō-lā-kus'trin), a. [L. flavius, river, + lacustris, of a lake, + -ine¹.] In geol., noting those sediments which are partly the result of flowing waters and partly of lakes: such. for instance, as deltas formed

of lakes; such, for instance, as deltas formed

in lakes and passing into beach gravels and sands. Geikie, Text-book of Geol., p. 1202. fluviology (flö-vi-ol'ō-ji), n. The science of rivers and streams, in their physical forms and actions.

One of the elementary principles of the modern science of fluviology is that a vigorous stream will in time grade its channel consonant to its baselevel, whether that baselevel be another stream or static water.

Amer. Geol., Jan., 1904, p. 48.

Pluviomarine series, a name given by Edward Forbes to a series of Oligocene thin-bedded sediments in the Hampshire beain and on the Isle of Wight, England, which are partly of marine, partly of brackish, and partly of fresh-water origin. Geikie, Text-book of Geol., p. 1249.

197. The general series of united States. Its simultaneous swarming with yellow-fever outbreaks gave rise to the popular name, but the fly has no connection with the fever.

198. The general series of the general states of the general swarming with yellow-fever outbreaks gave rise to the popular name, but the fly has no connection with the fever.

198. The general series of the general states of the gen

fluviometer (flö-vi-om'e-ter), n. [L. fluvius, nita and fly-agaric.

a river, + metrum, a measure.] An apparatus for determining the height of water in a river a river-gage.

nita and fly-agaric.

fly-ball (fli'bal), a. Having balls or weights which fly outward from the action of centrifugal force as they are revolved.

flux, n., 8. (b) Continuous motion.—9. In flyblow, n. II. a. Of the nature of flyblow; enameling, a colorless vitreous base, composed flyblown. Mrs. Browning.

of silica mixed with minium or red lead and fly-by-night (flī'bī-nīt), n. A jib set like a of silica mixed with minium or red lead and potash or carbonate of soda. See *fondant2, 2.—10. In bot., the slimy exudation from wounds in the bark of various trees.—Baumé's quick flux. Same as *powder of fusion.—Celiac flux. See *celiac.—Flux density. See *density.—Flux of a fluid. See *fluid.—Gold flux. Same as aventurin, 1.—Light flux, in photom., the whole beam of light from a source: specifically, the quantity of luminous energy given off by a source of light divided by the time in which it is given. The unit of flux is called the lumen. This is the beam, from a unit light source, contained within a unit solid angle (the angle which subtends a square meter at a radius of 1 meter).—Magnetic flux. See magnetic *xircuit.—Mains flux, a colorless glass, rich in lead, used for the manufacture of imitation diamonds or other imitation gems, the colors being added to this magma—Salivary flux, salivation.—Sebaceous flux. Same as seborrhea.—Unit of magnetic flux. See *unit. flux-root (fluks'röt), n. The pleurisy-root, Asclepias tuberosa, the root of which is used in dysentery.

dysentery.

fux-turn (fluks'tern), n. In elect., the mean magnetic flux through one turn of a coil multiplied by the number of turns.

flyl, v. i.— To fly up into the wind, to come up into the wind; act as though the helm was to leeward; have the vessel's head point into the wind.

flyl, n., 3. (i) Same as swiftl, n., 2. (j) Naut., in a screw-log, a hollow copper cylinder about 10 inches long, having a number of blades or fins twisted to a helix of uniform pitch which cause the log to make a revolution in traveling a certain distance through still water.

10. Naut., an old-fashioned name for the

compass-card .- Fly rollway. See *rollway.

like fly, any nematocerous dipterous insect of the families Tipulide, Blepharoceride, Dixide, Culicace, Chironomide, Mycetophilide, or Cecidomyide.— Moth-like fly, any member of the dipterous family Psychodide.—Palmer fly. See palmer?, 3.—Saltwater fly, any fly of the family Ephydride whose larve breed in salt, brackish, or alkaline water.—Screw-

worm fly, an worm ny, an Americansarcophagid or fleshfly, Chrysomyia, macellaria, which lays its eggs on sores and wounds in domestic animals and human beings, its larve developing in the same places and greatly aggravating the injury. It will also oviposit in the nostrils of human beings, the laws of the same places and greatly aggravating the injury. human beings, the larvæ developing in the posterior nares



Screw-worm Fly (Chrysomyia macella enlarged. (Howard, U. S. D. A.

posterior nares and fauca.—
Small-headed fly, any member of the dipterous family Acroceridæ (which see).—Spear-winged fly, any true fly of the family Lonchopteridæ (which see).—Steam-eyed fly, an American fly of the family Diopsidæ, Sphyracephala brevicornia, which has a horn-like process on either side of the head, on the tip of which the eye is situated. It is commonly found on the leaves of skunk-cabbage.—Tangle-veined fly, any dipterous insect of the family Nemestrinidæ (which see).—Thick-head fly, any dipterous insect of the family Conopiaæ. See Conopidæ and cut under Conope.—Tobacco white fly, any dipterous insect of the family Aleyrodidæ, Aleyrodes tabaci, occurring on tobacco-leaves.—White fly, (c) Any homopterous insect of the family Aleyrodidæ (see Aleurodidæ); specifically, the white fly of the orange, Aleyrodes citri.—Vellow-fever fly, an undetermined fungus-gnat of the family Mycetophilidæ, and probably of the genus Sciara, which occurs abundantly at times in the southern United States. Its simultaneous swarming with yellow-fever outbreaks gave rise to the popular name, but the fly has no connection with the fever.

fly-amanita (fli'am-a-ni'tä), n, See *Ama-

fly-by-night (flī'bī-nīt), n. A jib set like a studding-sail; a squaresail set on some sloops when running before the wind.

flyCatcher, n.—Great-crested flycatcher, Myiar-chus crinitus, a large species of the eastern United States. —Paradise flycatcher, an East Indian bird of the genus Terpsiphone. See Terpsiphone.

Terpsiphone. See Terpsiphone.

fly-eater (fli'é"tèr), n. A small Australian flycatcher of the genus Gerygone.

fly-finish (fli'fin"ish), v. t. In pianoforte-making, to assemble the parts of the action.

fly-flick (fli'flik), n. A flat wire brush with a
straight handle like that of a broom, used for killing flies.

killing files. fly-frame, n., 2. (b) A frame for transferring plate-glass to the grinding-bench.

fly-fungus (fli'fung'gus), n. Same as fly-agaric. See * Amanita.

See *Amanita.

Plying dragon, handicap, horse, etc. See *dragon, etc.
— Plying kites, the loftiest salls in a ship, the skysalis, moon-rakers, sky-scrapers, and star-gazers, all of these, except the skysall, being to a certain extent legendary salls claimed to have been carried on lofty ships in former times.— Plying party. Same as flying column (which see, under column).— To set flying, to hoist (a sail) from the deck to its position aloft, as, for instance, a maintop-mast staysail on a schooner, or a club or sprit topsail.

flying-fish, n. 2. A small constellation of the southern hemisphere, Piscis Volans. Sometimes simply Volans.—Sharp-nosed flying-fish, a small flying-fish, Fodiator acutus, found on both coasts of tropical America.

flying-homer (fli'ing-hō'mèr), n. A homing-

flying-homer (fli'ing-hō'mer), n. A homing-pigeon raised for flying and not for its markings or other points.

flying-rings (fli"ing-ringz'), n. pl. Apparatus for different purposes. Woodbury, Encyc. Diet. in gymnasiums consisting of wooden or iron rings covered with leather and attached to focusing-screen (fō'kus-ing-skrēn), n. In

is evaporated and returned to the atmosphere: distinguished from the run-off, or that portion of the rainfall which flows away from the surface to form rivers. J. W. Powell.

fly-pulley (fli'pul'i), n. A pulley which is free to move endwise on the shaft.

fly-table (fli'(a"bl), n. 1. A table with flaps or folding laves.—2. The table on which printed sheets are laid in order when they have been delivered by the fly. See cut of stop-cylinder machine under printing-machine.

fly-tick (fli'tik), n. A larval mite, Trombidium muscarum, commonly found attached to the

house-fly.

fly-title (fli'ti'tl), n. The abbreviated title of a book on a fly-leaf before the full title-page. fly-trap, n. 2. In bot.: (b) The pitcher-plant, Sarracenia purpurea; also the trumpet-leaf, S. flava, the leaves of which entrap flies and other ingorta

fly-weight (fli'wāt), a. Having weights which fly out as they are revolved.—Fly-weight governor. See *governor.

fly-wheel, n.—Segmental fly-wheel, a fly-wheel made of sectors fastened together. This is frequently done on account of the difficulty of casting large wheels in one place.—Fly-wheel effect. See ★efect.

A contraction of fathom.

F. M. An abbreviation (b) of Foreign Mission.

fo. An abbreviation of folio.

fo. M.

fo. An abbreviation of foreign of foal, n.—To be in foal, to be pregnant, as a mare.

foam-flower (fom'flou'er), n. The false miterwort, Tiarella cordifolia: so named from the light effect and white color of its flower-clusters.

See coolwort.

Specifically, noting a

foaming (fo'ming), a. Specifically, noting a class of sectional boilers in which each unit discharges the steam-gas formed in it into a chamber above the level of any water which chamber above the level of any water which may accumulate in the latter. The disengagement of steam from the water is therefore more tumultuous, by reason of the small area of cross-section, than in the other type called 'drowned,' where the ends of the generating-units are below the water level, and steam only frees itself from water at the larger disengagement area of the larger vessel or drum.

vessel of drum.

Focal disease. See *disease.—Focal idea, focal sensation, in psychol., a sensation or idea given in the state of maximal clearness, as the direct object of attention: opposed to maryimal idea or sensation. Amer. Jour. Psychol., XII. p. 252.—Focal interval, the distance between the foci of the two refracting surfaces of the segment of aphere, as the cornea. See *interval of Sturm.—Focal plane, point, radii. See *plane1, etc.

focimeter, ".—Abbe's focimeter, an instrument devised by Abbe (of Jena) for the determination of the focal length of lenses or lens-systems from measurements of their magnifying power.

focimetric (fo'si-me'trik), a. [focimetr(y) ic.] Of or pertaining to focimetry or the focimeter.

focimetry (fo-sim'e-tri), n. [focimeter + -y3.] The art of measuring the focal lengths of mirrors, lenses, or optical systems.

focoid (fō'koid), n. [focus + -oid.] One of the two circular points at infinity, or points where every circle in a given plane meets the straight at infinity or figurative straight of that plane.

focometric, a. Same as *focimetric.

focometry (fo-kom'e-tri), n. Same as *focim-

focus, n. 5. In pathol., a center of morbid focus, n. 5. In pathol., a center of morbid action; one of the primary or principal lesions. Jour. Exper. Med., Nov. 29, 1901. p. 45.—Actinic focus, the focus to which the shorter and chemically, most active rays are gathered by a lens or optical system. The actinic focus, on account of the greater refrangibility of the chemically active rays, lies nearer to the lens than the so-called optical focus.—Chemical focus, in photog, that point to which light rays inducing chemical changes, particularly in silver sults, are brought by the refractive power of a lens or objective.—Depth of focus, in optics, that property of a lens system which gives, simultaneously, well defined images of near and distant objects.—Equivalent focus, the focus of the single lens which is equivalent to a given lens system.

focus-adjuster (fo'kus-a-jus"ter), n. An arrangement fitted to a lens, by means of which the focus can be adjusted to different lengths for different purposes. Woodbury, Encyc. Dict.

photog., the material used in a camera upon which the image formed by the lens is seen. It is usually of very finely ground glass. Glass coated with a semi-opaque substance, as starch paste, may be used. Glass may be made mat by the use of fluorides.

fodder, n.—To pull fodder, to strip the leaves from standing corn. Each handful (termed a hand) is tied with a twisted leaf and hung on a broken stalk to cure. On gathering, a day or two later, three or four hands are tied into a 'bundle.' The expensive practice of pulling fodder,

Foehn sickness. See *sickness.

ing fodder to cattle; feeding out fodder.

Poehn sickness. See *sickness.

fog!, ***.—Barometric fog, a fog produced by the condensation of aqueous vapor in the atmosphere due to the cooling consequent on the expansion of the air when the barometric pressure diminishes, as when a wave of low pressure passes over a station, or when air is drawn horizontally into an area of low pressure.—Chemical fog, in photog., a defect in gelatin negatives giving a veiled appearance. It is due to the emulsion used. Nature. Aug. 21, 1902, p. 389.—Cosmic fog. See *cosmic.—Dry fog. (a) A light fog whose particles do not wet objects, but are themselves slowly evaporating owing to the warmth of the sun or of the ground and the dryness of the air; a fog from which all the heavier particles of water have dropped away, leaving their own latent heat of condensation in the air to evaporate the remaining fogparticles. Apparently the air between the drops in a foggy atmosphere is not necessarily saturated with moisture. (b) An atmospheric haze due to the presence of fine solid matter, such as dust or fine soot from soft coal fires or ashes from forest and prairie fires. These carbon particles collect about themselves special atmospheres of aqueous vapor and other gases. The spectrum of the transmitted light shows only the red and ultra-red waves. As the upper layers of the dry fog cool off by radiation and the little atmospheres of vapor become water, the dry fog changes to a drizzling mist and often to steady rain. Prairie fires and the resultant dry fog are mentioned by Marco Polo in his travels in India.—Electric fog, fog produced by an electric discharge from an electrical machine: also, a foggy state of the atmosphere, accompanied by electric, or vice versa.—Radiation fog, fog formed by cooling due to radiation of heat from the lower layer of the atmosphere downward to the cold ground or upward to the clear, cold sky.—Red fog. (b) A cloud of wind-borne dust frequently noted off the northern part of the western coast of Africa.—Woolly

state of suspension.

When sulphur or other nuclei are put into the globe containing benzol vapour the result is peculiar. Instead of distributing themselves homogeneously throughout the receiver they usually collect in a heavy band near the bottom. This is invisible until revealed by the first exhaustion, when a heavy sluggish fog-bank is seen, only a few centimetres high. Nature, Oct. 8, 1903, p. 549.

fog-billow (fog'bil'o), n. Fog the upper surface of which is thrown into waves, breakers, and billows by the action of a gentle wind.



Fog.billows. (McAdie.)

fog-buoy (fog'boi), n. A buoy placed over or near a shoal, and provided with either a bell or an automatic whistle.

fog-chamber (fog'chām'bèr), n. In physics. a closed vessel containing dust-free air saturated with some vapor and used in the study of nucleation and the phenomena of condense. of nucleation and the phenomena of condensa-

fog drip (fog'drip), n. The drops of water which fall to the ground after being formed by the running together of the particles of fog collecting on solid bodies, especially vegeta-

fogger³ (fog'èr), n. A man who, in foggy or snowy weather, places detonators on a railroad-track to apprise the engine-driver of the

foggie (fog'i), n. [Also fogie; prob. connected with fog'.] A bumblebee. [Prov. Eng. and Scotch.]

fogging (fog'ing), n. Fog-signaling on railways by means of detonators attached to the rails, etc.

But if, as sometimes happens, a fog continues for several days, great difficulty is experienced in obtaining sufficient men to carry on this important duty without undue prolongation of their hours of work. When this happens, signalmen, shunters, porters, yardsmen, and even clerks may have to be called on to take a turn at "fogging."

Encyc. Brit., XXXII. 148.

formerly universal in the southern United States, is giving way to the process of shredding the stover, forming a kind of 'corn hay.'

foddering (fod'er-ing), n. The act of supplying fodder to cattle; feeding out fodder.

formerly universal in the southern United States, is fog-limit (fog'lim'it), n. In physics, the difference between the outside atmospheric pressure and the pressure within a closed vessel containing dust-free air saturated with moisture at which condensation of the moisture at which condensation of the moisture at which condensation of the moisture at the condensation of the condensati which condensation of the moisture begins.

A particular fog-limit and hence a particular size of nucleus is reached for each case until the fog-limit vanishes.

C. Barus, in Science, Feb. 17, 1906, p. 275.

fogman (fog'man), n. A man engaged in signaling moving railway-trains during fogs.

Many attempts have been made to design a mechanical apparatus for conveying to a driver the requisite information as to the state of the signals during a fog, and for enabling the fogmen to be dispensed with.

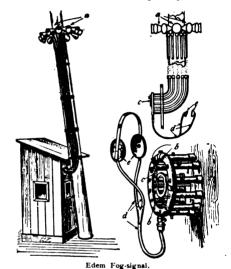
Encyc. Brit., XXXII. 148.

Fincyc. Brit., XXXII. 148.

fogo (fō'gō), n. [A variation of hogo, perhaps suggested by foh or fie.] A bad smell; a stink; a stench. [Scotch and north of Ireland.] fog-scale (fog'skāl), n. Any arbitrary system of recording the intensity of fog. Symons's proposed scale requires the establishment of a set of five screens at a uniform distance of 20 yards from the observer, illumined by lamps from behind by night but by white screens and sunlight by day. Screen number 1 has narrow alternate white and black stripes and number 5 has broad stripes. The others are intermediate. The scale of 1, 2, 3, 4, 5, indicates that the stripes on number 1, etc., have become invisible owing to the diffuse light of the fog.

fog-signal, n.—Edem fog-signal, an apparatus for to a sewing-ma-

fog-signal, n.—Edem fog-signal, an apparatus for use on vessels at sea in thick weather, by which the direction of sound-waves approaching the ship can be determined. A series of twelve trumpet-shaped collectors



a, a, sound-collecting cones: b, b, terminals of conductors from a, a; c, c, contact-arm to receiver-wires from conductors; d, d, receiver-wires connected electrically to c, c; e, e, telephone-receiver apparatus or ear-pieces.

a pattern: divided into foliations: said of a bounding line or outline.

foliobranch (fō'li-ō-brangk), a. Same as *foliobranchiate.

foliobranchiate.

foliobranchiate (fō-li-ō-brang'ki-āt), a. [L. foliobran

tainly determined.

fog-tin (fog'tin), n. A tin piece for holding detonators or torpedoes on a railway-track: so called because used by British railroads during fogs, to notify the engineer of the location of a signal.

fog-trumpet (fog'trum'pet), n. A trumpet used as a signal during fogs.

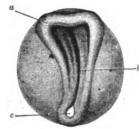
foil², v. II. intrans. In hunting, of an animal, to retrace its own track for the purpose of baffling the hounds; 'run the foil.' See foil², n.

fold¹, n. 7. In geol., a bend in strata varying from a monoclinal or a simple change in the from a monoclinal or a simple change in the inclination of the beds with a dip still in the same direction as before, through anticlinals and synclinals, which have respectively op-posing and converging dips on each side of a central axis, to overturned, collapsed, and fanshaped folds, with very irregular dips. Folds are believed to be due to the compressive strains in the earth's crust. Compare monoclinal, anticlinal, synclinal, isocline, *dome, basin, of the strain 9, etc.—8. In the Brachiopoda, a term applied with distinctive value to the median elevation of the shell, which is more or less pronounced in all except atrematous geners. Usually the fold extends along the longitudinal axis of the dorsal valve, accompanied by a corresponding sinus on the ventral valve, but in ontogeny this relation is sometimes found to be reversed in early stages, or it may manifest itself in either form only in the final stage of growth.—Arnold's fold, a sickle-shaped fold of mucous membrane in the lacrymal sac.—Carinate fold. Same as isoclinic *fold.

Conjunctival fold, the line where the conjunctiva is reflected from the eyeball upon the eyelid.

—Douglar's fold, ligament, or line, a creacentic line which marks the lower edge of the sheath of the posterior portion of the rectus abdominis muscle—Epigastric fold, a duplicature of the peritoneum covering the epigastric vessels.—Gastro-lieal folds, a valve-like structure which separates the intestine from the chylific stomach in locusts.—Imaginal fold. Same as imaginal disk.—Isoclinic fold, in good, a fold whose sides have the same dip, usually a succession of closed synclinals and anticlinals of the most uniform type. The attitude, whether vertical, overturned, or recumbent, is not essential. Also called carinate fold.—Lime fold, in tanning, a streak or mark in a skin from the action of lime in one of the folds. [Rare.]—Marshall's fold, a duplicature of the pericardium inclosing traces of the left superior vens cava, a vessel concerned in the fetal circulation.—Medullary fold, in embryol., a fold of ectoderm which bounds the medullary plate on each side during the first stages in the

to a sewing-ma-chine for bending and folding the fabric pre-vious to sew-ing. It is made in a great va-riety of forms



Medullary Fold.

A Frog Embryo at the time of the appearance of the neural or medullary to the seen from the dorsal surface. Magamed about 15 times. a, neural or medullary folds: the reference line points to the junction of the anterior and the left lateral folds; \(\theta\), neural grove: \((\theta\), objections, greatly reduced in size, but still visible through the blastopore. (From Marshall's "Vertebrate Embryology.")

to produce the different plaits, folds, and bands used in garment-making and in decorative sewing.—5. In sheet-metal work, a hand-power machine for folding over the sheet-metal plates to form a lock, turning the edges of small tinware and roofing-plates, etc.; a tin-folding machine.

folding, n.— Intermittent folding, in geol., folding renewed at intervals, with periods of quiet between.

folding-machine, n. 3. A machine, or a

hand-tool, for turning over and folding under the edges of vamps or other parts of a shoe; a vamp-folding machine.—Straight-edge folding-machine, a hand-power machine for folding leather or fabrics; an edge-folding machine. It folds only in a straight line. Other machines follow the shape of the vamp or other part of a shoe.

foliary (fö'li-ā-ri), a. Same as foliar.
foliate, v. t. 3. In arch.: (a) To adorn by
means of foliation. See foliation, 7. (b) To divide, as an arch, into smaller arches or foils. See foil, 7.

foliate, a. 4. Arranged in foliations: said of a pattern: divided into foliations: said of a

or the music for it, which originates in the same way as a folk-song and is similarly transmitted by tradition. Folk-dances and folk-songs are always historically intermingled.

folk-medicine (fok'med'i-sin), n. The traditional medical maxims, remedies, and methods current among the people.

folk-state (fok'stat), n. A political state embracing only one homogeneous folk or people: in distinction from a composite nation formed by federation or conquest and comprising peoples of various bloods and languages that must be assimilated. Gumplowicz (trans.), Outlines of Sociol., p. 153.

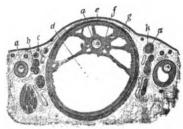
folk-tale (fok'tal), n. A folk-story.

folletage (fol'e-tāj), n. [F. feuilletage. puff-paste, the rolling of paste, < feuilleter. roll paste, turn over leaves, < feuillet, a leaf: see feuilleton.] A disease of the grape-vine in Cal-

ifornia due to a condition of the soil in combination with intense heat. Also called sunstroke. nation with intense heat. Also called sunstroke. follicle, n.— Agminate follicles. Same as Peyerian stands (which see, under gland).— Ciliary follicles. Same as Meibomian glands (which see, under gland).— Dental follicle, the membranous bag which incloses the tooth before its eruption. See dental sac.—Follicles of Lieberkihn. Same as Lieberkihn's glands (which see, under gland).— Meibomian follicles. Same as Meibomian glands (which see, under gland).— Montgomerry's follicles, depressions in the mucous membrane of the uterus.— Nabothian follicles, little vesicles on the mucous membrane of the cervix uteri, caused by distention of the mucous glands.

tion of the mucous glands.

follicle-cell (fol'i-kl-sel), n. In histol., of the cells which go to make up a follicle,



A. follicle-cells.

A, follicle-cells.

Section through part of the ovary of an adult rabbit. The section is taken vertical to the surface of the ovary, and shows one fully formed Graafian follicle and others in various stages of development. Magnified.

a, ovum; b, nests of epithelial cells derived from the deeper layers of the gental epithelium; c, primitive ovum; d, cavity of Graafian follicle; c, outer layer of Graafian follicle or tunica granulosa; f, inner layer of Graafian follicle or fusics proligens; c, outer layer of columnar epithelial cells, investing the ovary; h, collicle cells surrounding an ovum. (From Marshall's "Veriebrate Embryology.")

such as the follicle which incloses the egg in

Follicular mange. Same as *demodectic aca-

riuss.

follow, v. I. trans.—To follow (its) innings, in cricket, said of a side when, having completed its first innings, it immediately begins its second, in consequence of having made a certain number of runs (75 in a one days match, 100 in a two days match, and 150 in a three days match) less than its opponents.

Also to follow on.

match) less than its opponents. Also to follow on.

II. intrans.—Follow-on rule, in cricket, the rule which requires that the side which bats first and leads by 150 runs in a three days' match, or by 100 runs in a two days' match, or by 75 runs in a one days' match, shall have the option of obliging the other side to go to the bat immediately for the second time. See to *follow (its) innings.—To follow through, in golf, to allow the club, after striking the ball, to follow, without break or pause, on the line of the ball's flight until the swing ends.

follow, w. 2. The difference in the external diameter of a spring, especially of a coiled or helical spring, when unloaded and when compressed by its working load. The torsion of the rod which forms the coil tends to increase

A fountain.]

A fountain.

the diameter as the spring closes.

follower, **a. 4. In pile-driving, a wooden block placed on top of a pile that is to be driven deeper than the weight of the pile-driver can fall. By the use of such a block the pile can be driven even after its head is under water. wheel, either by a belt of by a compound piston, which is bolted to the larger to complete the structure. It is usually a plate, or it may be a ring. In old English designs using fibrous packing, the following, p. a. 3. In naval arch., said of the edge or end of a surface or blade, as a propeller blade, which is in the rear when moving through water: opposed to leading.

follow-est (fol'ō-rest), n. Same as rest!, 6 (b). follow-shot (fol'ō-shot), n. In billiards, the reverse of the *draw-shot (which see). Also following.

In aolf. the

follow-through (fol'ō-thrö), n. In golf, the course described by the club in the swing after the ball is struck.

fondamenta (fön-dä-män'tä), n. [Venetian fondamenta (< L. fundamenta, pl.), earlier

plural of it. fondamento, foundation, \(\) L. fundamentum, foundation.] A seaside quay; primarily, a landing-place: in Venice [cap.], specifically applied to the great quay which reaches
from the Ducal Palace to the Public Garden in
the Fondamenta degli Schiavone.
The st
fondant² (fon-don'), n. [F. fondant, ppr. of
fondre, melt: see found³. v.] 1. A thick,
smooth, creamy paste of sugar, used as a basis
of French cream candies.—2. The base or flux,
in enamel which is colored throughout by mesail

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in enamel, which is colored throughout by metallic oxids while in a state of fusion.

fonetic, fonetist, etc. Simplified spellings phonetic, etc.

fonic, a. A simplified spelling of phonic. fonograf, fonografer, etc. Simplified spell-

ings of phonograph, etc. fonologic, fonologist, etc. Simplified spellings of phonologic, etc. fonotype, fonotypic, etc. Simplified spellings

of phonotype, etc.

Fontainebleau schools of painting. painting.

Fontana, spaces of. See *space. fontanal (fon-tā'nal), a. [L. fontanalis, var. of fontinalis, of a fountain: see *fontinal.] Fountain-like.—Fontanal decussation. Same as *fountain decussation.

*fountain decusation.

fontanelle, n.—Mandibular fontanelle, a small, elliptical opening in the proximal half of the lower jaw of many birds.—Supraorbital fontanelle, a perforation in that part of the cranium which forms the upper portion of the orbit.

font-cover (font'kuv"er), n. In church arch.,

a permanent and often decorative protection for the open top of a baptismal font. It frequently has the shape of a spire with pinnacles, or of a decorative or of a decorative cupola, or in some cases is richly sculptured. It may be hung with a nulley or windlass from a hinged arm overhead, so that it can be swung clear of the font after being lifted a few ing lifted a few

spring: com-mon in South African Dutch place-names: as, I Bloem-



Font-cover, Baptistery of St. Francis's Church, Notting Hill, London.

-5. A wheel which is driven by another fontinal (fon'ti-nal), a. [L. fontinalis, < fons, wheel, either by a belt or by a tooth connection. a fountain, spring: see fount, fountain.] In -6. The smaller element of a compound phytogeog., growing in or about springs: said

ated groove on the ventral surface of a brachial. food-of-the-gods (föd ov-тне-godz'), n. An umbelliferous plant, Ferula Narthex, the principal source of asafetida. See asafetida and

the ball is struck.

Fomalhaut (fō-mal-hāt'), n. [Ar. fumm, mouth, + al, the, + hūt, a large fish (applied to a whale and to a cod).] The first-magnitude star situated in the mouth of the Southern Fish. Piscis Austrinus.

From braized and spiced substance secreted by the endostyle and passed substance secreted by the endostyle and passed substance secreted by the oral aperture. sauces.

fonda (fon'dä), n. [Sp. fonda, also honda, = fool-hay (föl'hā), n. The old-witch grass, Pr. fronda = It. fonda, fionda, an inn, a purse, CF. fonde, F. fronde, a sling, purse, CL. funda, a sling.] In Spain and Spanish-speaking countries, a hotel, inn, tavern or boarding-house. Agrostis hiemalis, grasses resembling each other in the long, slender branches of their panicles: neither of much agricultural value. **colometer** (föl-om'e-ter), n. Something by which fools may be gaged or measured. Sydney Smith. [Humorous.]

plural of It. fondamento, foundation, < L. fun-fool-proof (föl'pröf), a. Proof even against the damentum, foundation.] A seaside quay; pri-ignorant or meddlesome handling of fools; marily, a landing-place: in Venice [cap.], spesecure against accidents even in the hands of a stupid person: said of machinery. [Humor-

The standard of construction has been raised, and it is claimed that the new motor starters are as fool-proof as rheostats can be constructed.

Elect. World and Engin., Feb. 18, 1905, p. 371.

ot, n. 16. Naut.: (a) The lower edge of a sail. (b) The part of a mast near the deck.

-17. In bot., one of various organs of attachsail. (b) The part of a mast near the deck.—17. In bot., one of various organs of attachment. (a) A petiole. (b) The stalk of a frond in ferna. (c) The claw or point of attachment of a petal. (d) The organ of attachment and temporary nutrition of the embyro. (e) The base of hair below the epidermis.—Antennary feet. See *antennary.—Circular foot, a unit of surface equal to the area of a circle whose diameter is one foot. It is equal to 0.785398 + of a square foot, and is used in order to dispense with the fractional number 0.785 +.—Cord foot. See *cord1.—Foot citus. See *clue.—Foot lining, a horizontal band of canvas on the bottom of a squaresail, designed to strengthen and take the chafe on that part of the sail.—Foot of the perpendicular meets the straight line or plane to which it is at right angles.—Mandibular foot, the second trunk-appendage of the nauplius larva of Crustacea, so called because it develops into one of the mandibles of the adult.—Morton's foot. Same as metataradigia.—Off their feet, in printing, said of composed types that are not strictly vertical in a mass, and that receive undue impression on one side only of the face. Each printing-type, however small, rests at its base on two slight projections called feet. When one line or a larger mass of composed type is slightly tilted, the types are off their feet, and impression is unavoidably strong on one side and weak on the other; when they are truly vertical and rest squarely on both feet, they are on their feet. De Vinne, Mod. Book Composition, p. 260.—Reel foot, a pronounced degree of tailpes equinovarus, so called because of the peculiar gait of bearers of such a deformity.—Tabetic foot, the distorted foot seen in some cases of tabes dorsalis.

footage (fût'āj), n. In mining, a piece-work system of paying miners in which they are naid

footage (fut'āj), n. In mining, a piece-work system of paying miners in which they are paid for each running foot of work done.

Foot-ball ear, deformity of the external ear following an effusion of blood from injury, as in foot-ball.

foot-boat (fût'bōt), n. An old name for a small ferry-boat designed to carry foot-passengers

omy.

foot-bond (fút'bond), n. An electric bond between the butted ends of two trolley-road rails.

Hydraulic foot-bond, an electric bond of this kind formed by a copper band or cable attached at each end to solid copper tapered plugs which are forced by a 'hydraulic' compressor into holes drilled in the foot of the two rails.

foot-brails (fût'brālz), n. pl. See *brail.

foot-brake (fût'brāk), n. A brake which is applied or released by a lever or treadle operated by the foot.

foot-candle (fut'kan'dl), n. A British unit of illumination equal to 12.2 luxes; the illumination produced by a British standard candle at a distance of one foot in a horizontal direction. See *candle-foot and *illumination, 1.

foot-clonus (fut'klo'nus), n. Same as ankle-

foot-disk (fut'disk), n. The lower attached end of the body of certain zoantharian polyps, as

foot-drop (fut'drop), n. Dropping of the ante-rior portion of the foot when the limb is raised from the ground, due to paralysis of the flexor muscles.

footeite (fût'ît), n. [Named for A. E. Foote of Philadelphia (died 1895).] A hydrated oxid and chlorid of copper occurring in deep-blue mono-clinic crystals: found in Arizona.

foot-fringe (fut frinj), n. In gastropods, the fringed or digitate margin of the epipodium. foot-gland (fut gland), n. In certain bryozoans, collection of granular cells at the bottom of

the stalk arranged around a central space communicating with the exterior.

footing, n. 17. In archery: (a) A piece of hard wood or other material placed at the forward end of an arrow to give weight and serve for the attachment of the head; foreshaft. (b)

The position of an archer in shooting.

foot-lever (fut'lev"er), n. A treadle; a lever for operating a machine or mechanism by the

pressure of the foot.

footling, n. 3. One of the strips of board which run longitudinally on top of the frames

in the bottom of a boat.

foot-maker (fut ma ker), n. In glass-manuf.,
a workman who makes the feet of dishes, goblets, etc. Webb, Indust. Democracy, II. 490.

footman, n.—Banded footman, a small lithosiid moth, Ozonadia unifascia, with lead-colored fore wings crossed by a yellow band and with pink hind wings. It is rather common throughout the South Atlantic United States.—Painted footman, Hypoprepia fuscosa, a species with red-and-yellow wings, occurring in the eastern United

States.—Pale footman, Crambidia pallida, a drab-colored species, occurring in the northeastern United States.—Striped footman, Hypoprepia miniata, a species occurring in the eastern United States. It is scarlet in color, with three broad lead-colored longitudinal stripes on the fore wings.—Two-colored footman, Lexis bicolor, a species occurring in Canada and the northern United States. It is slate-colored, with the prothorax, tip of abdomen, and costa of the fore wing yellow.

foot-phenomenon (füt fē-nom e-non), n. Same as ankle-clanus.

Same as ankle-clonus

foot-power (fut'pou'er), n. Power applied by the motion and pressure of the foot, as for

the motion and pressure of the foot, as for driving a bicycle or machine.

foot-pump (fût'pump), n. A portable pump intended to be operated by hand, and having a bracket or stirrup so that it can be held in place by the pressure of the foot.

foot-rill (fût'ril), n. In coal-mining, an entrance to a mine formed by driving a level into a hillside; a dip-road used for bringing out coal.

foot-rot, n. 2. A disease of the orange and other citrous trees, supposed to be due to Fusarium Limonis, but also affected by the use of ferti-

corage-poisoning (for aj-poi zn-ing), n. A disease of animals, especially the horse, characterized by depression and paralysis of the nervous system, caused by eating damaged food or drinking stagnant water. Also called leucoëncephalitis, spinal meningitis, and leucoëncephalitis, spinal meningitis, and heling-press;

A heling-press;

A heling-press;

leucoëncephalitis, spinal meningitis, stuggers.

forage-press (for'āj-pres), n. A baling-press; a press used to compress hay or straw into bales for shipping.

forager, n. 2. A foraging ant, an ant of the tropical and subtropical genus Eciton.

foramen, n.—Conjugate foramen, an aperture between two apposed bones formed by a notch in each.
—Foramen centrale. Same as foramen of Sommering.
—Foramen nicisivum, the opening between the premaxillary and maxillary, in such a skull as that of a deer: so called because the opening is formed, as it were, by cutting into the promaxillar.—Foramen interosseum, in ornith, the space between the distal ends of the coracoid and clavicle and the proximal end of the scapula through which passes the great tendon of the wing muscle. Also foramen triorseom.—Foramen of Magendie, an opening in the pia over the fourth ventricle of the brain.—Foramen of Morgani. Same as storamen of Morgani. Same as storamen of Morgani. Same as storamen interosseum.—Foramen suprapyriforme, an opening above the pyramidalis muscle through which the gluteal vessels and superior gluteal nerve emerge from the pelvis.—Foramen suprapyriforme, an opening sobve the pyramidalis muscle through which the gluteal vessels and superior gluteal nerve emerge from the pelvis.—Foramen suprapyriforme, an opening sobve the pyramidalis muscle through which the gluteal vessels and superior gluteal nerve emerge from the pelvis.—Foramen suprapyriforme, an opening sobore the coracoid *foramen, in ornith., the spong portion of the urethra.—Ho-ischiadic foramen, in ornith, the oblong space between the illum and ischium;

the ilio-ischiadic fissure closed posteriorly by the union of the illum and ischium.—Isohiatic foramen. Same as ilio-ischiadic *Ajoramen.—Orbitonasal foramen, in ornith., a perforation in the anteorbital plate (prefontal) for the passage of the orbitonasal nerve.—Parietal foramen. (c) An opening in the parietal bone, or between the parietal bones of reptiles; the pineal foramen.—Pneumatic foramen, an opening, or perforation for the admission of air, found in various bones of many species of birds, very frequently in the humerus and almost always in the femur.—Bepugnatorial foramen. Same as repugnatorial pore.—Supracoracoid foramen, in ornith., a perforation through the distal half of the coracoid; also foramen supracoracoideum.—Supratrochear foramen, a perforation in the olecranal fossa, immediately above the distal end of the humerus, occurring as an anomaly in man, but constant in some other animals. Also known as olecranon perforation.—Trigeminal nerve.—Vagus foramen, the perforation for the exit of the trigeminal nerve.—Vagus foramen, the perforation or the exit of the perforation in the hinge-plate of certain telotrematous brachlopods, Athyris, through which it has been supposed the posterior part of the intestine passed.

Foraminiferal limestone, sand. See *limestone, *sand1.

stone, *sand¹.
foraminoöptic (fō-ram'i-nō-op'tik), a. In

craniom., relating to the foramen magnum and the optic foramen.—Poraminoöptic line, the dis-tance between the basion and the optic foramen.

Limonis, but also affected by the use of letter lizers and methods of cultivation. Also called gum-disease.—3. Same as *bottom-rot. foot-scab (fut'skab), n. Any acarine disease of the feet; in particular, the chorioptic scab of the feet; in particular, the chorioptic sc

foot-scab (fit'skab), n. Any acarine disease of the feet; in particular, the chorioptic scab of sheep. The minute parsites cause an intense to increase of the feet; in particular, the chorioptic scab of sheep. The minute parsites cause an intense to the feet; in particular, the chorioptic scab of sheep. The minute parsites cause an intense to the feet; in particular, the chorioptic scab of sheep. The minute parsites cause an intense to the first and the feet and cobalt, occurring in grayish-white fibrous crystalline masses: found are remained to the legs may become quite unsightly.

foot-second (fut'sek'und), n. 1. A unit for measuring the flow of liquids, equal to a flow of one cubic foot per second.—2. A unit of velocity equal to one foot per second, used in stating the velocity of a projectile. Also called excond-foot.

foot-slope (fut'slöp), n. The lower slope of a mountain-range.

Norcia, a town... 29 miles north-east of Terni, on the south-west foot-slopes of the Sibyline Mountain.

Enge. Brit., XXXI. 249.

footstone (fut'ston), n. A stone placed at the foot of a grave, usually small as compared with the headstone.

foot-tone (fut'ton), n. In organ-building, a general term for the pitch of stops or pipes with reference to that of the keys used. See stopl. 6, and foot. 12 (c) (2): an infantryman. [Slang.]

footy-7, n. 2, A foot-soldier; an infantryman. [Slang.]

footy-8, n. 2, In golf, a badly played stroke. [Rooteh.]

foozle, n. 2. In golf, a badly played stroke. [Rooteh.]

foozle (fo'zl), v. t. or i.; pret. and pp. foozled, ppr. foozling. To bungle; make a mess of; do clumsily or bunglingly: as, to foozle a shot, in golf.

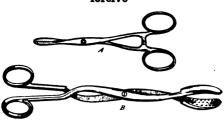
F. O. B. An abbreviation of free on rail: compare F. O. B. [Eng.]

forage-plant (for'āj-plant), n. A plant suitable for forage; a plant that is commonly eaten by cattle.

F. O. B. An abbreviation of free on rail: compare F. O. B. [Eng.]

forage-poisoning (for'āj-plant), n. A plant suitable for forage; a plant that is commonly eaten by cattle.

forage-poisoning (for'āj-plant), n. A plan



Forceps. A, hemostatic forceps; B, lithotomy forceps.

operation of lithotomy.— Major forceps, a collection of nerve-fibers passing from the corpus callosum to the occipital lobes.— Minor forceps, a collection of nerve-fibers passing from the corpus callosum to the frontal lobe.—Roller forceps, a forceps having a roller at the extremity of each broadened or fenestrated blade, used to compress the granulations of the lids in trachoms.

forcherite (for sher-it), n. [Named for V. Forcher.] A variety of opal colored orange-yellow by orpiment: found in Styria.

forcing, n., 1. In horticultural use forcing denotes:

(a) The rearing of plants outside of, or in advance of, their natural seasons, by means of artificial heat and under glass. (b) The process of compelling flowers to appear from bulbs and tuberous parts (as from rhizomes of lily-of-the-valley) by subjecting them directly to an unusually high degree of heat, as when the pots or boxes are placed on hot pipes in a more or less confined space. are placed on hot pipes in a more or less confined space.

forcing-hill (för'sing-hil), n. A hill of plants
so prepared as to be forced beyond its season
just where the plants grow. Usually the earth is
heaped around a box, forming a hollow embankment
when the box is removed; then over the area a pane of
glass is laid. Sometimes the seeds are planted in the
bottom of a depression and the pane is laid over the
cavity on the surface of the ground. L. H. Bailey. See
whand-box.

orcing-jet (for sing-jet), n. The jet of steam which comes through the blast-nozle and goes up the stack of a locomotive, thus forcing or inducing the draft; also, the steam jet in an injector for feeding boilers.

forcing-machine (för'sing-ma-shēn'), n. A

machine for forcing one piece over another on which it fits tightly. Such machines are used for forcing gears, pulleys, propellers, etc., on or off their shafts, and are operated either by a screw or by hydraulic

forcing-press (for sing-pres), n. A hydraulic press, of massive construction, for pressing locomotive wheels, armatures, motor-gears, etc., upon shafts or axles where a very tight or horizontal position, and a resistance-head to hold the wheel or other object and sustain it against the powerful pressure of the ram. It is also used to force wheels from the axles or shafts. One type is called a wheel-

forcipiform (fôr-sip'i-fôrm), a. [L. forceps (forcip-), forceps, + forma, form.] Having the form of a forceps.—Forcipiform pedicellaria, in a starfish, one of the pedunculate pedicellaria in which the two hooks cross each other and are attached to the end of the basal plate farthest from them.

to the end of the basal plate farthest from them.

Forcipiger (för-sip'i-jèr), n. [NL., < L. forceps (forcip-), forceps, + gerere, carry.] A genus of butterfly-fishes of the family of Chætodontidæ, having the snout very long with the short jaws at its end. F. longirostris is common in the South Seas.

forcipressure (för'si-presh-ūr), n. [For *forcipipressure, < L. forceps, forceps, + pressura, pressure.] Arrest of hemorrhage from the cut end of a blood-vessel by pressure made by a self-retaining forceps.

self-retaining forceps.

Bleeding vessels in the dura may be caught with the hemostatic forceps; if the bleeding be not checked by such forcipressure, a curved needle threaded with catgut may be carefully passed under the vessels and the ligature then tied.

Buck, Med. Handbook, VII. 877.

forcipulate (fôr-sip'ū-lāt), a. [NL. forcipulatus, (*forcipulus, dim. of forceps, forceps: see forceps.] Shaped like a forceps, as the pedicellariæ of echinoderus.

forcive (för'siv), a and n. [force1 + -irc.]

I. a. Of or pertaining to 'force' as distinguished from 'energy.'

To any one who has stood aloof from the polemic between the 'energetic' and the 'forcire' view, it must seem proved that the former has rendered a permanent service to physic.

Science, March 25, 1904, p. 510.

II. n. An imaginary distribution of pressure over a level surface of water, such as to replace the pressures due to a given series of waves distributed over the same area.

By a suitable synthesis of a series of distributed forcives with their associated surface displacements, the solution was put in a form which lent itself towards the clucidation of several important problems.

Nature, Feb. 16, 1906. p. SSS.

Fordilla (for-dil'ä), n. [NL., named for S. fore-guy (for'gi), n. W. Ford, a paleontologist.] A primitive Cambrian genus of bivalved shells believed to be boat-boom, designed

boat-boom, designed to steady the latter when it is swung out for use.

fore¹ (for), interj. In golf, a warning cry ('look out, before!') uttered to attract the attention of a person who is liable to be struck by the

Fore-and-aft motion, rig, road, tackle.

*motion, fore-and-aft sails, *road, *tackle.

fore-and-aft sails, *road, *tackie.

fore-and-aft sails, *road, *tackie.

fore-and-aft sails of 'ter), n. 1. A vessel,
such as a sloop or schooner, which carries
fore-and-aft sails only.—2. A cocked hat having the peaks in front and behind, such as is
worn for full dress in the navy.

fore-awing (for'a'ning), n. The forecastle
fore-awing (for'a'ning), n. The forecast

fore-awning (for a ning), n. The forecastle awning; the awning which extends from the foremast forward.

weather forecasts were first published by Fitz-roy in England in 1861.—Forecast district. See ***kdistrict.—Long-range forecast, in meteor., a statement of the weather to be expected at some quite distant date, such as a week, a month, or a year.—Seasonal forecast, in meteor., a statement of the general average character of the weather during an approaching season, especially as to rainfall, temperature, or wind; the prediction of climatological averages rather than of detailed weather items. Seasonal forecasts of the monsoon rains have been officially published in India annually since 1885.

forecaster, n.—Weather forecaster, one who is skilled in meteorological science, and is regularly and officially engaged in forecasting the weather from the data supplied by meteorological observing-stations. forecastle-deck (for kas-l-dek), n. See *deck, 2.

forecastle-head (för kås-l-hed), n. The forward part of the forecastle-deck, or topgallant-

ward part of the forecastle-deck, or topgallant-forecastle near the knight-heads.

fore-chains (for'chānz), n. pl. Strong, narrow plates of iron bolted to the ship's timbers through the side, abreast the foremast. To the upper ends of these plates deadeyes are secured by an iron strap, and through these deadeyes are reeved the lanyards of the lower rigging. The ship's channels are also called chains, as fore-chains, main-chains, and mizzen-chains. On some vessels the upper ends of the chain-plates carry turnbuckles instead of deadeyes for setting up the lower rigging.

fore-channels (for chan elz), n. pl. Small horizontal

h. n. n. n. foreigner.

with a little pyroxene, the onivin sounces changed to serpentine. The dark minerals appear as spots in the feldspar and suggest the spotting of trout.

forelope (for'lop), v. i. To act as a fore-looper.

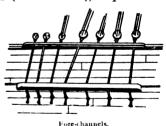
foremast-hand (for mast-hand), n. A man shipped before the mast; a forecastleman.

foremast-officer (for mast-officer), n. An old designation of the boatswain, carpenter, and sailmaker on a merchantman.

fore-milk (for milk), n. Same as colostrum, 1.

foren, forener. Simplified spellings of foreign, foreigner.

projections on the out-side of a a narrow vessel, situated abreast of the respective masts deand signed give a great-



er spread to the lower rigging by having the upper part of the chain-plates secured to the outside rim of the channel.

fore-course (for kors), n. The foresail of a

upper part of the chain-plates secured to the outside rim of the channel.

fore-course (for'kors), n. The foresail of a square-rigged vessel, being that sail which is bent to the foreyard.

forefather's-cup (for'fā-Thērz-kup), n. The pitcher-plant, Sarracenia purpurea.

forefeel (for'fōl), n. In psychol., an anticipatory feeling or anticipatory tactual perception; a tactual image associatively aroused by the presentation of a visual, auditory, etc., stimulus.

The special of the chain-plates secured to the coldness the foresail, n.—Balloon-foresail, a large sail of light

a foreboding

A strong forefeeling that much of my destined life in this world was yet to come. Kinglake, Eothen, p. 309.

fore-glow (for'glo), n. A glow seen in the east fore-glow (for glo), n. A glow seen in the east before sunrise, corresponding to the after-glow seen in the western sky after sunset.

foregon, p. a. A simplified spelling of fore
fore-sheet horse, traveler. See *horse1, *traveler.*

foreign-hearted (for'ān-hār'ted), a. Affected with foreign sympathies, ideas, or ideals in

forebay, n. 2. A recess at the entrance of a canal or hydraulic device. Also called bay.—
3. The sick-bay; also, an old name for the spar-deck galley on a merchant vessel.
fore-bowline (for'bo'lin), n. The bowline belonging to the bowline-brindle gear on the leech of the fore-course.
fore-cabin (for'kab'in), n. A cabin situated in the forward part of a vessel.
fore-caddie (for'kad-i), n. In golf, a person employed to go in advance of the players to watch where their balls alight. [Scotch.]
forecast, n. 3. Specifically, in meteor., a statement of the expected weather. Official daily weather forecasts were first published by Fitzroy in England in 1861.—Forecast district. See the embryo; the stomodsoum of the embryo. It includes the mouth and pharynx, the pumping-apparatus of haustellate orders, the esophagus, the crop, the sucking-stomach, and the proventriculus. A. S. Packard, Text-book of Entom., p. 299.

fore-kidney (for kid ni), n. Same as proneph-

foreland, n. 3. The portion of the shore usually oreland, n. 8. The portion of the shore usually left outside of a protecting dike or embankment for the purpose of breaking the force of the waves.—4. In phys. geog., low alluvial land added to the coast of the mainland by the action of the sea or of streams. Geog. Jour. (R. G. S.), IX. 538.—Foreland grits. See *grit2. fore-leech (for lech), n. The luff of a sail; that part of a fore-and-aft sail which is against the

mast. Also written fore-leach. [Eng.] forellenstein (fo-rel'en-stin), n. [G. forelle, trout, + stein, stone.] A phauerocrystalline rock composed of lime-soda feldspar and olivin with a little pyroxene, the olivin sometimes changed to serpentine. The dark minerals appear as spots in the feldspar and suggest the

fore-note (for'not). n. In music, same as appog-giatura or *vorschlag.

ore-orlop (for'or'lop), n. The forward part of

the orlop-deck; the space forward of the hold on the orlop-deck.

forepale (för pāl), v. t. and i.; pret. and pp. forepaled, ppr. forepaling. 1. To fence off. Hence—2. In mining, to prevent the caving of an excavation by the use of shores or planks and braces so placed as to support the walls; shore; also, to drive the ends of the shoring-planks ahead of the end of the excavation, in very loose material, to hold it in place.

The sight of ice yields a forefeel of its coldness, the smell of baked meats a foretaste of their savor.

Encyc. Brit., XXXII. 59.

forefeeling (for-fe'ling), n. A presentiment; forespeding.

**A presentiment of the sight of the foremast. In the first head-sail for ward of the foremast the first head-sail forward of the foremast. The forespeding.

**The sight of ice yields a forefeel of its coldness, the foresail, n.—Balloon-foresail, a large sail of light canvas carried in place of the regular fore-staysail, that is, the first head-sail forward of the foremast. The foresail of the foresail of the foresail of the foremast. The foresail of the foremast is the first head-sail for ward of the foremast. The foresail of the foremast. The foresail of the foremast is the first head-sail for ward of the foremast. The foresail of the foremast is the first head-sail for ward of the foremast. The foresail of the foremast is the first head-sail for ward of the foremast. The foresail of the foremast is the first head-sail for ward of the foremast. The foresail of the foremast is the first head-sail for ward of the foremast is the first head-sail for ward of the foremast is the first head-sail for ward of the foremast is the first head-sail for ward of the foremast is the first head-sail for ward of the foremast is the first head-sail for ward of the foremast is the first head-sail for ward of the foremast is the first head-sail for ward of the foremast is the first head-sail for ward of the foremast is the first head-sail for ward of the foremast is the first head-sail for ward of the foremast is the first head-sail for ward of the foremast is the first head-sail for

heavier sediments rolled down a stream along the bottom and dumped at the steeper slope. Fore-set beds are those of greatest inclination and variability in a delta, often characterized by cross-bedding; they are underlain by the bottom-set and overlain by the top-set beds. See *bed1. Chamberlin and Salisbury, Geol., I. 191.

for S. fore-guy (fōr'gī), n. A rope leading forward foreshift (fōr'shift), v. t. To move forward. Appendages that are farther forward upon the body than their equivalents in allied but more primitive nulmuls may be regarded as having been moved forward, or foreshifted, during ancestral history. E. R. Lankester, in Nat. Science, April, 1897, p. 265.

See fore-hatch (fōr'hach), n. The hatch next abaft the foremast on sailing-vessels, but generally forward of the foremast on steamers.

sipate the force of waves before they strike the breakwater proper. fore-shoulders (for'shol'derz), n. pl. The pro-

jecting parts of a vessel's bows in the vicinity of the water-line.

fore-shrouds (for'shroudz), n. pl. The shrouds of the fore lower mast.

fore-spencer (för'spen'ser), n. The fore-and-aft sail which sets on a small extra mast abaft the foremast. This sail has a gaff, but no boom, and is sometimes referred to as

the fore-trysail.

times referred to as the fore-trysail.

forest, n., 1. A forest judged by the character of the stand may be timberland or woodland. These constitute the two great classes of forest between which it is possible to draw a practical but not an absolute distinction. Timberland may be broadly defined as that kind of forest which contains in commercial quantity trees of sufficient size and of the required kind to furnish sawlogs, pulpwood, ties, poles, or wood for similar uses: woodland as forest which contains trees fit for furnish sawlogs, pulpwood, ties, poles, or very few, which are suitable for the uses enumerated above. A timber tract is a body of timberland, usually of large area. A wood-lot is a forest of small area in which the wood is used mainly for fuel, fencing, and other farm purposes.

4. In phytogeog, specifically, a closed woodland, that is, one in which the crowns of the trees touch.—Absolute forest land or soil. See *absolute.—Communal forest.



touch.—Absolute forest land or soil. See *kabedute,
—Communal forest. Same as town *forest.—Compositions in considerable number.—Cromer forest-bed.
See forest-bed group, under forest.—Crown forest-bed.
See forest-bed group, under forest.—Pederal forest
reserve. See national forest *reserve.—Forest armyreserve. See national forest *reserve.—Forest armyreserve.—See *tany-norm* etc. see forest-bed group, under forest.—Crown forest, federal forest. See national *forest.—Pederal forest reserve. See national forest *reserve.—Porest army-worm, cover, engineer, etc. See **xamy-worm, etc.—Porest floor, the deposit of vegetable matter on the ground in a forest. *Litter includes the upper but slightly decomposed portion of the forest floor; *humus the lower portion, in which decomposition is well advanced.—Porest influences, the influences exerted by forests on rainfall, temperature, wind, evaporation, humidity, runoff, dust, water-supply, and other climatological matters. Forest influences are determined by means of observing-stations placed within and without the forest. In general, in comparison with equal areas of prairie, forests tend to cool the air, to add less moisture by evaporation, to retard the run-off, to diminish erosions and floods, to conserve the rainfall and snowfall without altering the average run-off, to produce less dust and injurious germs, to prevent the water-table within the forest from sinking lower down, and to keep the soil from freezing. Forests have no particular influence on the amount of rainfall.—Porest service, that branch of the government service, in the Department of Agriculture, which is charged with the administration of the national forest reserves, and with forest investigations and cooperative forest work throughout the United States. See **Bureau of Forestry.—Pringing forest, a luxuriant woodland growth, due, not to atmospheric precipitation, but to telluric water, as along streams and lakes. A. F. W. Schimper (trans.). Plant Geog., p. 177.—Index forest, that forest which in density, volume, and increment reaches the highest average which has been found in a given locality; a normal forest. Measurements of such a forest provide a standard for comparison with other forests. See **caatinga.—Monsoon forest, a type of tropical woodland forest, a forest which is the property of the nation; in the United States called faderal forest.—National forest reserve. S rich in terrestrial herbs, especially grasses.—Thorn forest, a tropical type of woodland, like the savanna forest in foliage and average height, but more xerophilous, very rich in underwood and siender-stemmed lianas, poor in terrestrial herbs, especially grasses, usually without epiphytes, and abounding in thorny plants.—Town forest, a forest which is the property of a city, town, or village. Also called communal forest.

fore-stage (for staj), n. The fighting-platform or forecastle which was built on the forward part of the upper deck of ancient vessels.

part of the upper deck of ancient vessels. forestation (for-es-tā'shon), n. The plan

The planting or establishment of forests; afforestation.

Forestay tackle. See *tackle.

fore-staysail (för'stä"säl or -sl), n. The first
headsail forward of the foremast, which sets

headsail forward on the forestay.

forester, n. 3. (a) One who is versed in forestry. (b) One who practises forestry as a profession.—7. [cap.] A member of any one lent and fraternal societies. forester, n. profession.—7. [cap.] A member of any one of several benevolent and fraternal societies.
(a) A member of the Ancient Order of Foresters, founded in Yorkshire, England, in 1745, and introduced into the United States in 1832. It has 'courts' or lodges in 36 countries, a membership of over a million, and disburses per annum over \$5,000,000. (b) A member of the Independent Order of Foresters, founded in Newark, New Jersey, in 1874, with 'courts' or lodges in many countries. (c) A member of the Foresters of America, originally part of the Ancient Order of Foresters, but separated from it in 1889.

8. A pony raised in the New Forest. [Local, Eng.]—Langton's forester, a common moth, Alupia langtonii, occurring in Canada, the northern United States, and California.

States, and California.

forest-grown (for'est-gron), a. Grown in the forest from self-sown seed.

forestian (fo-res'ti-an), a. [ML. foresta, forest.] Of or pertaining to forests.—Forestian epoch, in geol., a subdivision of the Pleistocene or glacial series in northern Europe. It comprises the Lover Forestian, or fourth interglacial epoch (Ancyclus beds of the Baltic area and Littorina clays of Scandinavia), lying between the Meckleiburgian or fourth glacial epoch and the Lower Turbarian or fifth glacial epoch, indicated by a buried forest between the deposits of the fifth and sixth glacial epochs.

fore-stomach (for'stum'ak). n. A dilatation

gently from an adjacent forest after it has been cooled by nocturnal radiation from the surface of the leaves.

fore-swifter (for'swift'ter), n. The forward shroud of the fore-rigging.

fore-tacks (for'taks), n. pl. The tacks of the

fore-course or foresail.

foretop, n. 4. Same as forelock².

foretopgallantmast (for top - gal'ant or -togal'ant-mast), n. The mast next above the
foretopmast.

foretopgallantsail (för'top-gal'ant or -to-gal' ant-sal or -sl), n. The squaresail next above the topsail on the foremast of a square-rigged

foretopgallantyard (för'top-gal'ant or -to-gal'ant-yard), n. The yard next above the topsail-yard on the foremast.

fore-topsail (for top-sal or -sl), n. The squaresail on the foremast next above the course or foresail.

fore-trysail (för'trī-sāl or -sl), n. Same as -spence

Forfars (for fars), n. [Named from Forfar in Scotland.] Coarse, heavy, unbleached linen fabrics, made in Forfarshire, Scotland.

forfex, n. 2. A pair of anal organs which open or shut transversely and cross each other, as in

v., 1, in allusion to the clicking sound.] In far-riery, to strike the heel of the front shoe with the toe of the hind shoe, producing a clicking sound.

forge-cinder (förj'sin'der), n. The slag from

forge-cinuer (tor) sin der), n. The sing from a forge or bloomery.

forge-hammer (förj'ham'er), n. Any heavy hammer for forging large pieces which is worked by machinery; a steam-hammer or

power-driven hammer, forge-limber (förj'lim'ber), n. The limber of a forge-wagon, as distinguished from the gun-The limber of carriage limber or the caisson-limber; part of a field-battery.

forget2, forgett (for-get'), n. In glove-making,

forget², forgett (for-get), n. In guve-munny, same as fourchette, 2.

forge-test (forj'test), n. A bending test applied to wrought-iron and steel plates or bars. Specimens are bent both hot and cold, and also with and across the grain; the angles to which they are to be bent without fracture, and the radius about which they must be bent, depend in each case on the use for which they are intended and the thickness of the plate.

are intended and the thickness of the plate.

forget-me-not, n.— White forget-me-not, any species of several genera of the borage family (Plagiobothrys, Oreocarya, Cryptanthe, etc.), related to and somewhat resembling Myosotis, but bearing white flowers. These plants, forming many species, are natives of western North America and Mexico. Some or all are included under the names *micritas and *popcorr-flower (which see).—Wild forget-me-not, the bluet or innocence, Houstonia cærulea.— Yellow forget-me-not, in Californis, any plant of the boraginaceous genus Amsinchia. They are very rough hairy herbs with yellow flowers shaped like those of the forget-me-not. A spectabilis, common southward in the State, has the flowers half an inch wide. Called also woolly-breches.

forging² (fōr'jing), n. [forge³, v., + -ing¹.]

A defect in a horse's gait consisting in striking the heel of the front shoe with the toe of the hind shoe, which produces a clicking sound. It is not considered so serious a fault as over-

reaching or grabbing.
forgiv, v. A simplified spelling of forgive.
forhed, n. A simplified spelling of forehead.

fore-stomach (fōr'stum'ak), n. A dilatation of the esophagus just above the stomach. forest-rat (for'est-rat), n. See *ratl.
forest-rat (for'est-rat), n. See *ratl.
forest-survey (for'est-ser-vā'), n. An inspection or survey of woodlands or forests to ascertain the kinds, qualities, and number of trees on a given area. It includes also the study and examination of the commercial value of the trees as lumber and the value of the land in relation to lumber-production.

forest-wind (for'est-wind), n. 1. A wind in a forest.—2. In forestry, the wind which blows gently from an adjacent forest after it has

two pieces are attacked at the a pawn.—Electric fork, in acoustics, a tuning-fork which is actuated by means of an electromagnet.—Giant fork, in psychophys., a large tuning-fork, with a range of from 16 to 25 vibrations per second, used for determining the lower limit of tonal hearing.—Belf-interrupting fork. Same as electric *fork.—Bilver-fork deformity. See *deformity.

fork, v. t. 4. In chess, to attack (two hostile pieces) with a pawn.

forked-leaf (förkt'lef), n. In the southern United States, the Turkey oak, Quercus Catesbæi: so called from the shape of the

so called from the shape of the leaf.

ork-head, n. 2. A rod-end which is split or divided to form fork-head, n. an opening for the reception of the end of another rod, the two being then fastened by a pin or

fork-tined (fork'tind), a. Noting antlers that lack the large, more or less depressed brow-tine found in the wapiti and European red deer of the genus Cervus: contrasted with *brow-tined. The South American swamp deer, Blastocerus paludosus, and the mule-deer, Odocoileus macrotis, have typical fork-tined

isometric system) correspond to those of the octahedron (holosymmetric class). In such cases the complementary forms (which may be enantiomorphous) are often distinguished as positive and negative, plus and minus, or direct

25. A flower-bud of the cotton-plant.

Forms appearing in May bloomed in 21 to 32 days.
U. S. Dept. Agr., The Cotton Plant, 1896, p. 263.

Biologic Drum. See wholoopic.—Commercy of form. See **scenter1.—Forms factors. See **scenter1.—Forms factors. See **scenter1.—Forms of address. Such forms are governed principally by social and official customs rather than by legal enactments. The external addresses of letters are generally more formal than the superscriptions and the superscription of the degree of intimacy between the body of a letter, and the forms of conclusion, vary considerably in proportion to the degree of intimacy between the strict and the person addressed, as well as to the character of the communication (official or social). Finer distinctions and greater elaborations of detail prevail in the social and official circles of the more conservative European monarchies. The forms here given are those most commonly which precede the colon are adapted formal, and therefore most appropriate for use on the envelop of a letter. Those following the colon are adapted for internal superscription and for repetitions throughout the communication. The matter of abbreviation of such titles as Right Homorable, Honorable, Reverend, etc., is largely one of convenience or relative innovatance. Turely official saftersess are frequently shortened, etc., is largely one of convenience or relative innovatance. Turely official software and the strict of the s

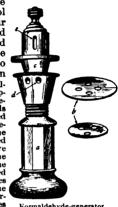


of Beginest as The King's Mass Excellent Majesty, or Strong Majesty, by It phose You Majesty, or Strong Majesty, by the Hillish of his Order, e. in the case of a Kreight Genderly by Kin ; he was the control of the Co form, v. I. trans. 6. In elect., to change (the surface of the plates of a secondary or storage-cell) by repeated charge and discharge, so that

they are in condition for use. II. intrans. 3. In elect., to convert the active material of the positive plate of a storage-cell into lead monoxid or that of the negative plate into spongy lead, either by the action of the charging current or by direct chemical means.

formacoll (fôr'ma-kol), n. [forma(ldehyde) + formalinize (fôr'ma-lin-ize), v. t.; pret. and pp. Gr. κόλλα, glue.] Same as formaldehyde *gelatin.

formalinized, ppr. formalinizing. [formalin +



formalin (fôr'ma-lin), n. [formal(dehyde) + -in².] A trade-name for aqueous or dilute methyl alcoholic solutions of formaldehyde, containing up to 40 per cent. of the latter. formalina (fôr-ma-li'nä), n. [NL.] An iodine derivative of formaldehyde. It has been used for inhalation in cases of consumption. Also called inneal.

called igazol.

-ize.] To add small amounts of formalin to, as to cultures of typhoid organisms for the purpose of killing them. The dead bacteria give the same reaction as the living culture when used in a Widal test.

formalith (fôr'ma-lith), n. [forma(lin) + Gr. $\lambda i\theta o c$, stone.] A trade-name for blocks of in-

fusorial earth soaked in formalin and used for

formamidate (form-am'i-dāt), n. [formamide +-ate¹.] A salt of formamide, H.CONH₂.—Mercury formamidate, a soluble salt with a neutral reaction. It does not coagulate albumen, and gives but little pain when injected.

little pain when injected.

formamide (form-am'id), n. [form(ate) + amide.] A colorless liquid, O:CH.NH2, prepared by heating ammonium formate.

formanilide (form-an'i-lid), n. [form(ic) + anil² + -ide¹.] A colorless crystalline compound, C_0H_5 NH.COH, obtained by digesting aniline with formic acid. It is antipyretic and

formant (fôr mant), n. [L. formans (formant-), ppr. of formare, form: see form, v.] In phonol., the name given by Hermann to "the tone of constant pitch for each vowel,—independent of the tone on which it is sung." Scripture, Exper. Phonetics, p. 39.

A vowel, according to him [Hermann], is a special acoustic phenomenon, depending on the intermittent production of a special partial, or 'formant', or 'characteristique.' The pitch of the 'formant' may vary a little without altering the character of the vowel.

V. C. McKendrick, in Nature, Dec. 26, 1901, p. 167.

V. C. McKendrick, in Nature, Dec. 26, 1901, p. 187.

format (fôr-mä'), n. [F. format = It. formato
= G. format, shape and size of a book, < NL.

*formatum, neut. of L. formatus, formed, pp. of
formare, form.] 1. In printing, the shape and
size of a book, as, for example, duodecimo, octavo, quarto, folio, etc.—2. In painting, engraving, etc., the relation between length and
breadth of surface.

formation, n., 4. (b) In the classification of
rock-masses as adopted by the United States
Geological Survey for cartographic purposes,
the cartographic unit. or usually the ultimate

the cartographic unit, or usually the ultimate rock body separately named and mapped.—5. In acol., a plant society or association. See the extract and plant *formation.

Geologists, paleobotanists and a few botanists have several times called attention during the past few years to the persistent misuse by many ecologists of the word 'formation,' when referring to plant societies or associations. Regardless of the sanction of a century . . . of usage for 'formation' in the geological sense, they have proceeded . . . to transplant the word, via Germany, to English botanical literature.

Science, March 18, 1904, p. 467.

sage for 'jornation' in the geological sense, they save proceeded ... to transplant the word, via Germany, savo English botanical literature.

Science, March 18, 1904, p. 467.

Barringtonia formation, See *Barringtonia.—Bonaventure formation, a name given by Logan to a heavy sheet of red conglomerates and sandstones which unconformably overlie the Devonian and Silurian limestones of Gaspé, Canada, and are regarded by him as wholly of early Carboniferous age. It is named from the island of Bonaventure, which is composed wholly of these rocks. Later writers have assigned the lower portion of these beds, which attain a thickness of several thousand feet, to the Upper Devonian; but they are all deposits of lacustrine or estuarine origin, and are now regarded as representing one of the Old Red lakes which were numerous in northern latitudes during Devonian and early Carboniferous times.—Boone formation, in geol., a subdivision of the Carboniferous in Arkansa, regarded as equivalent to the Burlington and Lower Keokuk groups. It attains a thickness of 250 feet and is underlain by the Eureka shale and overlain by the Wyman sandstone.—Burrum formation, in geol., the lower division of the Jurassic formation in Queensland, Australia.—Cape May formation, strata formed during a portion of the Pleistocene period in New Jersey.—Climatic formation, a plant formation, strata formed during a portion of the Pleistocene period in New Jersey.—Climatic formation is governed by atmospheric precipitation. According to Schimper, the author of the distinction, climatic formation in which the ground is completely occupied, as in a meadow.—Columbia formation, in geol., a subdivision of the Quaternary formation of the Atlantic coastal plain and the Mississippi valey, consisting of a series of subestuarine and submarine deltas and associated delta-deposits. It is characterized by wide-spread stratified deposits and associated terraces which are newer than the Lafayette formation.—Cultural plant formation, in peol., a division of the Ureta-c

a thickness of 450 feet, and is underlain by the Bossard-ville limestone and overlain by the Rondout formation. Issue as etimatic sylvenstation formation. Same as etimatic sylvenstation of the property of t

the base of the Cretaceous system along the inner edge of the middle Atlantic coastal plain region, and attaining its greatest development in Maryland. The deposits are almost wholly of fresh water and estuarine origin, and portions contain an abundant flora of early Cretaceous expression, together with some brackish water mollusks, fishes, plesiosaurs, and dinosaurs. The series has been divided into the lower Patuxent and Arundel stages which may be of late Jurassic age, and the upper Patapsco and Raritan stages which are of Lower Cretaceous age.—Rancocas formation, in geol., a division of the Upper Cretaceous in New Jersey lying above the Monmouth and below the Manasquan divisions, and consisting chiefly of greensand maris carrying many fossils.—Raritan formation, in geol., a subdivision of the Lower Cretaceous (Potomac group) of the Atlantic coast region extending from New Jersey into Maryland and attaining a thickness of 500 feet. It is underlain by the Patapsco formation and overlain by the Matawan formation, and is characterized in New Jersey by plant remains and a few brackish water molluscan shells.—Bait formation, a series of related strata containing beds of rock salt or brine.—Banta Cruz formation, in geol., a division of the Tertiary series, in southern South America lying above the Patagonian and remarkable for the profusion in number and variety of its mammalian remains which represent a fauna of austral type strongly contrasted with contemporary faunas of northern latitudes. It is regarded as of Miocene age.—Soudan formation, in geol., a division of the Carboniferous limestone in Australia.—Timber Creek formation, in geol., a series of sandstones and limestones at the base of the Upper Cretaceous in Texas.—Trinity formation, in geol., a series of sandstones and limestones at the base of the Upper Cretaceous in Texas.—Trinity formation, in geol., a series of sandstones and limestones at the base of the Upper Cretaceous deposits of Texas, comprising the Travis Peak, Glenrose, and Fuluxy beds. The f

When found, one side of the skull and some fragments of limb-bones were all that was exposed; but the skilful removal of the matrix by Mr. J. Hall, assistant formatore in the Museum, has revealed most of the skull, the upper surface of the pelvis, and the femur.

Proc. Zool. Soc. London, 1899, p. 776.

formatory (fôr'mā-tō-ri), a. [NL. *formato-rius, (L. formare, form: see form, v.] Tending or serving to form. Ruskin.
formene (fôr'mēn), n. [form (ic) + -ene.]

Same as methane.

former², n., 2. (b) One of a number of appliances and machines used in bending and shaping sheet-metal into tubes, cylinders, shaping sheet-metal into tubes, cylinders, boxes, and other forms. For making cylindrical blanks for round vessels and pipes, the machines employ long bending-rolls in groups of three, the sheet-metal being bent to the right diameter by the size and adjust ment of the rolls. Small machines using two short rolls having irregular faces are used in forming blanks for pepper-boxes, candlesticks, and other small cylindrical vessels. Forming-machines for making square or triangular blanks for boxes and pipes are properly sheet-metal bending-machines. Wire-forming machines, used in making wire rings, handles, and bails, all use rolls or sections of cylinders round which the wire is bent to give it the proper shape.

proper shape.

3. The templet used for the cutting of gear-teeth; the guide used for giving desired motions forming or cutting irtion to the cutter when forming or cutting irregularly shaped pieces in a profiling-machine. 4. In elect., a frame upon which the coils of certain types of armatures and transformers certain types of armatures and transformers are wound.—Line-former, two concentric strips of brass leads, used by Johavinters to be an in proper nosition lines of type arranged for a curve.—Modding-former, an appliance for reproducing the exact form of any molding or irregular surface. It consists of a large number of thin metal strips inclosed in a frame. Placed over the molding, or horizontally against it, the outer ends conform to the surface on which they rest and reproduce its form. A binding-screw holds the strips in place when removed from the molding.—Slip-roll former, a former in which one of the rolls can be released from the machine for convenience in slipping the finished blanks off the end of the roll.—Square-pan former, a tinman's stake for bending the edges of tin-plate in making baking-pans, etc.

former-wound (fôr'mer-wound), a. In elect., wound upon a former or frame before being mounted: said of certain types of armaturecoils

coils.

Formic aldehyde. Same as formaldehyde. Jour. Soc. Chem. Ind., XIV. 1070.

formicarious (fôr-mi-kā'ri-us), a. [NL. *formicarius: see formicarium.] Belonging to or resembling an ants' nest or formicary. Annak and Mag. Nat. Hist., Oct., 1903, p. 427.

formicary, n. II. a. Of or pertaining to ants or an ant-bill or community: as, formicary routine. The Atlantic, Feb., 1892, p. 180.

formicate (fôr'mi-kāt), v. i.; pret. and pp. formicated, ppr. formicating. [L. formicare, swarm as ants, < formica, an ant.] To swarm (in the manner of ants). Lowell.

formicide², n. [NL. *formicida for *formicicida.

formicide², n. [NL. *formicida for *formicida, (formica, ant, + cædere, kill.] One who or that which kills ants; a substance destructive to ants.

In the coffee regions the damage done by them is so serious that the Brazilian Government at one time offered a large premium for a successful formicida or ant exterminator.

Van Hise, U. S. Geol. Surv. Monographs, XLVII. 456.

formicivorous (for-mi-siv'ō-rus), a. [L. for-mica, ant, + vorare, devour.] Feeding on ants: a term applied to certain birds and mammals such as the flickers and ant-eaters.

ants: a term applied to certain birds and mammals such as the flickers and ant-eaters. formin (fôr'min), n. Same as *urotropin.
forming-machine, n., 2. (b) In hat-making, a felt-forming machine. It is the second machine used in the process of hat-making and follows the blowing-machine. It consists of an air-tight chamber having an air-inlet at the top and an air-outlet at the bottom. When ready for use a hollow cone or form of perforsted metal is placed in the chamber in such a position that it covers the outlet, so that when an air-suction or exhaust is started all the air must be drawn through the performance of the cone. When the chamber is closed and the exhaust started, a blast, bearing a cloud of loose hair from the blowing-machine, is turned on and the floating hair gathers in a film on the former, being pressed down by the jair pressure and held in place by the suction through the perforations. When this film is sufficiently thick, the blast and exhaust are cut off, the chamber is opened, and the former is removed and plunged into water, when the film readily alips off in the shape of a felt cone the exact shape of the former and ready for the next process of working and matting together to form a felt hatbody. See blowing-machine.—Look-forming machine, a machine for making the hook or lock on parallel edge of the blanks used in making the bodies of cans. It conveys each blank to the machine, clamps it, forms the hook and releases and delivers the finished blank at a high speed.

forming-rolls (fôr'ming-rôls).

order.—Weber formation, in geon, and shales of the Carbonilded carbonaceous limestones and shales of the Carbonilerous period, occurring near Aspen, Colorado.

formatol (fôr'ma-tôl), n. [form(aldehyde) +
-ate¹ + -ol.] A disinfecting and antiseptic
dusting-powder containing formaldehyde.

formatore (fôr-mä-tô're), n.; pl. formatori
(-rē). [It., a former.] One who models in

formatore (fôr'ming-tôl), n. In machineshop practice, a shaped cutter used in a lathe
to give a special shape or form to a piece of work.

form-maker (fôrm'mā'ker), n. One who works at a brake, in a cracker factory, forming the dough into sheets to be run on the cutting-

machine.

formoform (fôr'mō-fôrm), n. [form(aldehyde) + form(ic).] A dusting-powder consisting of starch, zine oxid, thymol, and formaldehyde.

formol (fôr'mōl), n. Same as *formalin.

formopyrin (fôr-mō-pī'rin), n. [form(aldehyde) + (anti)pyrin.] A white crystalline compound obtained by the action of formaldehyde on antipyrin. It is antipyretic and antipyrin.

formose (for'mos), n. [form(aldehyde) + -ose.]
A mixture of at least two substances formed by the polymerization of formaldehyde under the influence of calcium oxid. It contains a

form-quality (förm'kwol'i-ti), n. In psychol, that which gives to a group of elementary mental processes a certain perceptual or ideational form, or indicates the specific grouparrangement: regarded by certain authors as a positive ideational content, appearing in consciousness together with such ideational complexes as are composed of separable elements, but referred by others to the laws of association and the selective activity of attention. The term was, introduced by C. von Ehrenfels in 1890.

In a very great variety of mental complexes over and above the elements into which the complex falls there remains, he insists, a menfal factor which is a necessar and characteristic feature of the complex, something which may remain unchanged even though all the elements be altered. This new factor, this 'positive identional content,' is the form-quality.

Amer. Jour. Psychol., XIII. 276.

formula, n.—Cippoletti's, D'Arcy's, Francis's, etc...
formula, various algebraic formulæ devised by the

authors whose names are given, to express the quantity of flow of water in terms of length, depth, etc., in a measuring-device.—Constitutional or structural formula, a formula expressing not only the kind and number of atoms in the molecules of any substance, but also their arrangement or order of attachment to each other. See graphic formula.—Descartes's formula, in optics, the trigonometrical statement of the relation between the angles of incidence (i) and of refraction (r), viz.: $\sin i = n$, where n is the index of refraction. This is known as Snell's law, but the statement of it in the above form is attributed to Descartes.—Dimensional formula, an algebraic expression indicating the manner in which the three fundamental quantities of any system of measurements—usually length, mass, and time—enter into any derived physical quantity. Thus the dimensional formula of a force is LMT-2.—Euler's formula. (b) In geom., F+S=E+2. In any convex polyhedron the number of faces increased by the number of summits exceeds by two the number of edges.—Fechner's formula, Fechner's fundamental formula, in psychophys., the formula of $S = c \frac{dR}{R}$, where S stands for intensity of sensation, R for stimulus, and c for a constant value.—Fechner's measurement formula.

intensity of sensation, R for stimulus, and c for a constant value.— Fechner's measurement formula, Fechner's metric formula, in psychophys., the formula $S = k \log \frac{R}{r}$

where S is a sensation of given intensity, k is a constant value, R is the stimulus which evokes S, and r is the liminal value of this stimulus. If we make r = 1, the formula becomes $S = k \log R$.—Ferral's gradient formula. See *gradient.—Formula of Avernarius, an empirical formula for the electromotive force of a thermo-electric couple, proposed by M. P. Avernarius of Kief (1863). It has the form

$$\mathbf{E}_{(\mathbf{t}_1 - \mathbf{t}_2)} = \mathbf{b} (\mathbf{t}_1 - \mathbf{t}_2) + \mathbf{c} (\mathbf{t}_1^z - \mathbf{t}_2^z),$$

where E is the electromotive force, t_1 and t_2 are temperatures of the junctions, and b and c are constants which depend upon the metals employed.—Formula, of Stefan. See Stefan's tlosv.—Fourier-Bessel formula, a formula expressing the algebraic sum of a series of sines and cosines of successive multiples of a unit angle. The coefficients and angles may be so adjusted that the sum total shall represent the observed variations of any natural phenomenon. It serves as an interpolation formula if the observed quantities are not governed by any known law, but as a serial development if the natural law is known—Pressnell's formula. See reflection *equations.—Gal-— Fresnel's formula. See reflection **equations.— Galton's formula, aformula of natality (which see) devised by Francis Galton.

$$m + p + n = 91\frac{1}{2}$$

 $n = 91\frac{1}{2} - (m + n)$:

that is to say, the natality can with satisfactory reliability be estimated to be equal to the difference between the age of both parents taken together and the number 91. Philos. Trans. Roy. Soc. (London), 1895, ser. B, p. 847.

Garrod's formula. See muscle *formula.—Green's formula, an equation for the distribution of magnetism in a cylinder acted upon by a uniform external force parallel to its axis. It is

xis. It is
$$\lambda = \pi k X pa \frac{px}{e^{\frac{a}{a}} - e^{\frac{px}{a}}} \frac{px}{e^{\frac{p}{a}} + e^{\frac{p}{a}}}$$
| Inner density of tree many

where λ is the linear density of free magnetism at a distance x from the middle of the cylinder, whose radius is and length 21, k is the coefficient of magnetization, X the magnetizing force, and p a constant.—Heron's formula,

$$\Delta = \sqrt{s(s-a)(s-b)(s-c)},$$

where $s = \frac{1}{2}$ (a + b + c), and $\Delta \equiv$ area of any triangle.— Holman's formula, the equation,

$$\sum_{n=0}^{t} e = mt^{n},$$

which expresses the relation between the electromotive force of a thermo-element and the temperature of the hot junction. In this formula e is the electromotive force of a difference of temperature of 1°C., and t the temperature to be measured, and m and n are constants. -Hypsometric formula, the formula $H = \frac{B}{g} \log \frac{B}{v}$

where B is the pressure (in centimeters of mercury) and S the density (referred to mercury) of the air at the earth's surface; H centimeters the height, and y the atmospheric pressure at the elevation H.—Lambert's formula, a formula for obtaining the mean wind direction from a table of observed directions, namely,

$$\tan \phi = \frac{E - W + (NE + SE - SW - NW) \cos 45^{\circ}}{N - S + (NE + NW - SE - SW) \cos 45^{\circ}}$$

where \$\phi\$ is the angle between the north and the mean wind direction measured round by east.—
Le Chatelier's formula. See Le Chatelier's \$\pi\au\$ and of radiation.—Moseley's formula, in naval arch, an expression for the dynamical stability or the work done in inclining a vessel to a given angle. It considers the immersed and the emerged wedges of equal volume formed by the load-water planes in the upright and inclined positions and the distances of their centers of volume from the inclined water-plane. The product of the sum of these distances by the ratio of the volume of a wedge to the total volume of the under-water hull is diminished by the product of the versed sine of the angle of inclination and the distance between the center of gravity and the center of buoyancy in the upright position. The resultant quantity multiplied by the displacement or weight of the vessel is the work done in inclining the vessel to the given angle.—Muscle formula, a plan devised by A. H. Garrod for expressing by letters and symbols the presence or absence of certain leg-muscles used by him in classifying birds. The letters A B X Y represented respectively the femorocaudal, accessory semitendinosus, while + indicated the presence

and — the absence of the ambiens. For example, A B X + showed that the first three muscles and the ambiens were present.—Nerve formula, a method of noting the arrangement of the spinal nerves, especially in the lower vertebrates, such as fishes, where some of the nerves of the pectoral and pelvic girdles have been fused, thus lessening their apparent number.—Neumann's formula. See reflection *equations.—Phalangeal formula, a method of expressing the number of joints or phalanges in the digits of either the fore foot or hind foot, the enumeration being from the innermost digit outward.

The *shalangeal formula* is 2, 3, 4, 5, 4.

The phalangeal formula is 2, 3, 4, 5, 4.

Osborn, The Reptilian Subclasses Diapsida mula [and Synapsida. Poisson's formula,

$$\frac{\partial^2 V}{\partial x^2} + \frac{\partial^2 V}{\partial y^2} + \frac{\partial^2 V}{\partial z^2} = \nabla^2 V = \Delta^2 V = 4\pi\rho,$$

where ρ is a function of x, y, z, the coördinates of a point in space, and V may denote temperature, or concentration of a solution, or electric and magnetic potential, or the Newtonian potential due to an attracting mass, etc.—Stansfield's formula, the equation $T\frac{dE}{dT} = aT + b$, which expresses the relation between the electromotive force of a thermo-element, used for the measurement of high temperatures, and the temperature. T is the absolute temperature of the hot junction, E the electromotive force when the cold junction is in boiling water, and a and b are constants.—Structural formula. See graphic formula.—Van der Waal's formula.

waal's formula. See Van der Waal's kequation.

formulary, n. S. A collection of medical

formulistic (for-mū-lis'tik), a. [formula+-ist +-ic.] Consisting of a formula; adhering or conforming to some recognized formula; taken from the recognized form or formula.

The sacred myths have a constant bearing upon formulistic prayers and observances.

Rep. Bur. Amer. Ethnol., 1897-98, p. 231.

fornix, n. 4. In topical geom., a part of a surface which, in conjunction with another similar part which inseparably accompanies it, increases the cyclosis of the surface by two. increases the cyclosis of the surface by two. If cut away, it would leave two holes in the surface. Viewed from one side of the surface, it appears as a tubular bar (however much distorted or knotted) bridging the space from the edge of one hole to that of the other and leaving a transverse tunnel beneath formed by the twin fornix; while viewed from the other side it appears as a tunnel joining one hole to the other with a transverse bridge above formed by the twin fornix.— Fornix longus, a term sometimes used as a synonym for the arched portion of the fornix in the mammalian brain. Certain of the fibers are supposed to originate in the gyrus fornicatus.

fortescue (fôr'tes-kū), n. [Appar, from a surname Fortescue, whence by a popular adaptation the form forty-skewer, as alluding to the many sharp spines. But some consider fortyskewer to be the original.] A scorpænoid fish, Pentaroge marmorata, found in Australian waters.

Fortescue, or 40-skewer, a fish of New South Wales, Pentaroge marmorata, Cuv. and Val., family Scorpenides; called also the Scorpion, and the Cobbler. All its names allude to the thorny spines of its fins. The name Fortescue is an adaptation of Forty-skewer by the law of Hobson-Jobson.

E. E. Morris, Austral English.

Fortification lines, the edge of a zigzag luminous figure sometimes observed subjectively during an attack of megrim.

Fortified milk. See *milk.

fortoin (fôr'tō-in), n. [for(maldehyde) + (co)-toin]. A yellow, tasteless crystalline compound obtained by the action of formaldehyde pound obtained by the action of formaldehyde pit; pit-shaped.

Foresti of a grinding-tace of a tooth, more or less completely surrounded by enamel folds: typi-days in such a tooth as the molar of a rhinoceros. See cut under *tooth.

Forsification lines, the edge of a zigzag luminous figure completely surrounded by enamel folds: typi-days in such a tooth as the molar of a rhinoceros. See cut under *tooth.

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Forsification lines, the edge of a zigzag luminous figure completely surrounded by enamel folds: typi-days in such a tooth as the molar of a rhinoceros. on cotoin. It is used as an intestinal astringent in diarrhea.

Fort Pierre group. See *group1.

fortress, n.— The fortress. Same as *Sebastopol. fortuitism, n. 2. The doctrine that a tendency in the universe toward a certain direction of development may be accounted for by continual fortuitous changes, combined with an inherent possibility of an indefinite sum of change in the direction which development takes and an inherent impossibility of an indefinite sum of change in the opposite direction. The case is supposed to be analogous to that of a large number of gamblers playing against one another. Some of them are ruined from time to time and drop out of the game; and thus the average capital of those who remain tends to increase.

Fortuitous variation. See *variation.

forty, n.— Half forty. See *half.
forty-legs (fôr'ti-legz), n. An Australian myriapod, Cermatia or Scutigera smithii.

forty-skewer (fôr'ti-skū'er), n. *fortescue

forty-spot (for'ti-spot), n. A shrike, Pardalotus quadragintus, one of the diamond-birds. [Australia. 1

forward1. I. a.orward¹. I. a.—Porward glance, in cricket, a glance-stroke played forward; a stroke by which the ball is turned in its course, usually to the leg side, by piaying forward with the surface of the bat held alantwise.—Porward play, in *cricket*, the act of stocking or stopping the bowling by stepping forward with the left foot and meet-ing the ball soon after it has pitched.

II. n. In foot-ball, basket-ball, and other games, a player in the frontline of the team. forward¹, adv. 4. In cricket, in front of the butsman's wicket: said of a fielder's position. forwarding-yard (fôr'wärd-ing-yärd), n. See *drill-yard. *drill-yard.

fosfate, fosfatic, etc. Simplified spellings of phosphate, etc.
fosforic, fosforus, etc.
Simplified spellings of

phosphoric, etc.

foss, n. A simplified spelling of fosse.

fosforic, fosforus, etc. Simplified spellings of phosphoric, etc.

foss, n. A simplified spelling of fosse.

fossa, 1, n.—Amygdaloid fossa, the interval between the pillars of the fauces occupied by the tonsil.—Crotaphite fossa. See *crotaphite.—Douglas's fossa. Same as rectoauginal pouch (which see, under pouch).—Epigatric fossa. (a) The urachal fossa. (b) The pit of the stomach.—Ethmoid fossa, a groove on the cribriform plate of the ethmoid bone in which lies the olfactory lobe.

—Eustachian fossa, a sulcus in the petrous portion of the temporal bone which lodges a part of the Eustachian tube.—Possa capitis femoris, the depression on the head of the femur giving attachment to the ligamentum teres.—Fossa cerebelli. See occipital fossa.—Fossa costalis, depression on the body of a vertebra where it articulates with one of the ribs.—Fossa intercondyloid-dea. Same as intercondyloid fossa. See intercondyloid.—Fossa of Rolando, a groove which marks the division between the parietal and frontal lobes of the brain.

—Fossa sells. Same as pituitary fossa.—Harderian fossa, the depression in advance of the orbit in which the Harderian gland is lodged. See gland.—Hypogastric fossa, a depression on the inner surface of the anterior dominal wall between the hypogastric folds.—Hypografic fotse, a depression below the trochanter of the femur, well marked in the authropoid apes and in certain of the lower races of man.—Intercondyloid.

fossa. See intercondyloid.—Lacerate fossa, an opening in the wall of the orbit of the eye, just above the alisphenoid: more or less irregular in shape, whence the name.—Mastoid fossa, a depression for the lateral sinus on the inner surface of the mastoid portion of the temporal bone.—Messencephalic fossa, in ornith, the depression in the cranium which contains the olfactory lobes and adjoining parts of the brain constituting the medulla.—Olfactory fossa, the depression on the internal suberosion in the floor of the cranium which contains the olfactory lobes and adjoining parts of the stemperatio

fossette, n. 3. A hollow of considerable depth in the grinding-face of a tooth, more or less completely surrounded by enamel folds: typi-

pit; pit-shaped.

Fossil oil, an early name for petroleum. Dialect Notes,
II. vi.—Fossil ore. See Clinton ore, under ore.—

Fossil rain-marks, scars made in the soft mud or
sand by rain, which, before being obliterated, were
covered by a layer of sediment that preserved them, the
whole being subsequently compacted into rock.—Fossil
river-channel, a former river channel buried beneath
later formations.—Fossil water, water contained in
rocks of sedimentary origin, especially that part of
such water which is regarded as having been derived
from the sea and incorporated in the muds at the time
the sediments were laid down.
Fossula. n. (b) In anat. one of the numerous

fossula, n. (h) In anat., one of the numerous slight depressions on the surface of the brain. fostite (fos'tit), n. [(sul)phost(eat)ite.] A trade-name for cupric sulphate converted into a dusting-powder, for application to plants as a fungicide, by being soaked up in solution by an inert mineral powder, such as soap-stone, and dried. Also known as cupric steatite and sulphosteatite.

F. O. T. An abbreviation of free on truck. [Eng.]

Fothergilla (forh-er-gil'ä), n. [NL. (Murray, 1774), named in honor of John Fothergill (1712-1774), named in honor of John Fothergui (1/12-1780), an English physician and botanist.] A genus of shrubs of the family Hamamelidaceæ. It is distinguished from related genera by having apetalous flowers in terminal spikes, a bell-shaped and 5-to-7-lobed calyx, numerous stamens, and the fruit a 2-partitioned and 2-seeded capsule. There are three species of the southern Alleghany region, two of which, F. Carolina (F. Gardeni of Murray) and F. major, are planted for ornament. The former is sometimes known as witch-alder. fotograf, fotografer, etc. Simplified spellings of photograph, etc.

fotometer, fotometric, etc. Simplified spellings of photometer, etc.

Simplified spellings of fototype, fototypic. phototype, phototypic.

Foucault prism. See *prism.

Foucault's method. See *method and velocity

*liaht.

foujdar (fouj'där), n. [Also fousdar, phous- Hind. Pers. faujdār, a military commander, (Pers. fauj. a regiment, + dār, one who holds.] Formerly, in Persia, a military officer; in India, under the Mogul government, an officer who had charge of the police

and criminal matters. [Anglo-Indian.]

foujdari (fouj-dă'rē), n. [Hind. faujdāri, <
faujdār: see foujdar.] In India, a local native

court of justice.

Foul block, a block in which the rope has jammed.
Foul chain. Same as foul haves.— Foul coast, a coa Foul block, a block in which the rope has jammed.—
Foul chain. Same as foul haves.—Foul coast, a coast
which is lined with reefs and breakers.—Foul ground,
a harbor in which rocks, shoals, or wrecks endanger navigation.—Foul hand, in poker, a hand containing more or
fewer than five cards, any part of which has been lifted
or looked at.—Foul tip, in base-ball, a pitched ball just
tipped by the bataman's club, so that its direction and
speed are not appreciably altered.—Foul water (naut.).
(a) Water in which the bottom mud and sand rises to the
surface. See to make foul water. (b) Water which shows
unequal soundings. (c) Water resting on a bottom of
rocks and shoals.—Foul wind (naut.), a head wind.

Foul lines (foul'line). — It is hear held lines.

foul-lines (foul'linz), n. pl. In base-ball, lines drawn from the outer corner of the home plate along the outer edge of first and third bases to the boundaries of the ground. See foul!

foundation, n. 9. In ship-building, any part of a ship's structure which is built up or specially reinforced to support heavy weights, as engines and boilers, turrets, guns, boat-cranes,

foundation-bolt (foun - da' shon - bolt), n. large and heavy bolt used to secure the base of steel columns to the foundation stones or to secure heavy machinery to a floor.

foundation-plate (foun-da'shon-plat), n. A bed-plate for a steam-engine or heavy machine, usually of cast-iron.—2. An anvil or base-plate upon which ornaments are arranged in a stamping- or embossing-press.—3. A plate used in a foundation which is built up of plates and angles, as the engine foundations in a ship.

foundation-stop (foun-da'shon-stop), n. See

stop1, 6.

founder's, v. i. 4. In golf, to drive the ball into the ground by turning in the face of the club when striking.
founder-shaft (foun'der-shaft), n.

the original shaft for a mine. [Eng.] foundry-proof (foun' dri-prôf), n. In mining, the original shaft for a mine. [Eng.] foundry-proof (foun' dri-prôf), n. The last proof of composed type, supposed to be nearly free from fault. The proof-reader of the printing-house reads it for the detection of unnoticed typographical blemishes. When the type is not electrotyped or stereotyped it is called the press-proof.

fountain, n. 8. A fountain-shell or wateringpot shell; any shell of the genus Aspergillum.

—Fountain decussation, a decussation of nerve-fibers
of the crura cerebri beneath the posterior longitudinal
feedicaling.

fountain-brush (foun'tān-brush), n. A marking, painting, or stenciling brush having a reservoir in the handle for ink or paint. Pressure upon a button at the end of the handle releases enough ink to wet the brush. When the brush is worn out it can be removed from the handle and a fresh brush affixed.

fountain-dues (foun'tān-dūz), n. pl. Naut., the amount of money charged against a vessel for furnishing her with fresh water while in harbor and filling her water-tanks for sea. fountain-pump (foun' tan-pump), n. A pump

for throwing a spray like a fountain, for use on a lawn or for spraying trees.

fountain-syringe (foun tan-sir inj), n. A

Tountain-tree (foun tan-tre), n. The deodar, Cedrus Deodara. See deodar.

Fouquieriaceæ (fö-ki-ā-ri-ā'sē-ē), n. pl. [NL. (Dumortier, 1829), \(Fouquieria + -aceæ. \)] A family of dicotyledonous choripetalous plants of the order Hypericales, consisting of the the single genus Fouquieria (which see).

fouquieriaceous (fö-ki-ā-ri-ā'shius), a. Belonging to the plant family Executions.

dary, thus scoring four runs. See *fourer.

Hutchinson, Cricket, p. 314.—Four up and three to play, in golf, noting the score of a player when he has four holes to the good, and there remain only three holes to be played: he wins the match.—Long fours, candles about eight inches long, weighing four to the pound.—Short fours, candles from four to five inches long, weighing four to the pound.

fourchette, n. 5. The combination in one hand of the cards immediately above and below the one led, such as queen and 10 over a jack.

—Imperfect fourchette, the combination in one hand of the card immediately above and that next below the card led: as, queen, 9 on a jack led.

fourchite (för'shīt), n. [Fourche Mountain, Arkansas, + -ite².] An olivin-free monchi-Arkansas, + -ite2.] An olivin-free monchiquite; a dark porphyry or non-porphyritic aphanite with hornblende or pyroxene in a more or less glassy ground-mass. It occurs in

four-coupled (for kup 'ld), a. Having four driving-wheels coupled or connected by side-rods, the standard American passenger-engine which has two such drivers on each side.

four-course (for kors), n. In farming, a course of crop-rotation which is completed in four years. See rotation of crops, under rotation. four-cut (for kut), a. Cut into four parts, as a

piston-ring.
four-cycle (for si'kl), n. Same as four-phase

cycle (which see, under internal-combustion *mofour-cylinder (för'sil'in-der), a. Having four

cylinders, either working together or each one working separately from the others. Fourdrinier machine. See *paper-machine.

fourer (for er), n. [four + -er1.] In cricket, a four; a ball hit by the batsman, which reaches In cricket, the boundary, thus scoring four runs. H. R. Lyttelton, Cricket and Golf, p. 14. four-horned (for hornd), a. Having four horns,

as the Quito sheep, or the four-horned antelope,

Tetraceros quadricornis, of India.

Fourier-Bessel formula. See *formula.

four-in-hand. I. n. 3. A long scarf or necktie. One of the ends (which are broader than the center which surrounds the neck) is wound over the other, passed up between the neck and the tie, and then brought down in front through the loop thus formed.

II. a.—Four-in-hand coach, a heavy coach, with square boot and box, and fitted with roof-seats on the main body, a driver's seat on the box, and a footman's seat on the box is agentleman's drag, wrongly called a tally-ho (a name given to an individual coach introduced into New York by Colonel Kane, about the year 1876).—Four-in-hand harmess, a set of harness for four horses—two leaders and two at the pole. The standard pattern is without breechings. The pole-team have pads: these may be omitted on the leaders. The bridles of the pole-team are fitted with rein-rings to support the lead-reins.

Californica of southern California, a species with numerous small flowers resembling diminutive azaleas. Parsone and Buck, Wild Flowers of California, p. 208.—Fouro'clock family, the plant family Nyctaginaces.

four-on (för'on), a. Said of an arrangement of pages for presswork by which four copies in quadruplicate can be printed together on the same sheet by the same operation. See *twoon. De Vinne, Mod. Book Composition, p. 349.
four-phase (for faz), a. Having four phases or

four-phase for isz), a. Having four phases or conditions; in gas-engines, four-cycle.

foursome, a. II. n. Agolf match in which four persons engage, two playing against the other two.

foursquare, a. II. n. A figure with four equal

fourteener (för'tēn"er), n. A line of poetry of fourteen syllables. G. Saintsbury.

fourth. I. a.— Fourth state of matter. See *matter. G. Saintsbury.

II. n.—Fourth best, in whist and bridge, the fourth card of any suit counting from the top: the modern substitute for the penultimate and antepenultimate.

four-toes (for'toz), n. The plantain-leaf everlasting, Antennaria plantaginifolia. Also called dou-toes and pussy-toes.

fountain-syringe (foun 'tān-sir'inj), n. A rubber bag terminating in a flexible tube, with appropriate tip for the administration of urethral, vaginal, or rectal injections.

fountain-tree (foun 'tān-trē), n. The deodar, Cedrus Deodara. See deodar.

Fouquieriaceæ (fö-ki-ā-ri-ā'sē-ē), n. pl. [NL. (Dumortier, 1829), \(Fouquieria + -aceæ. \)] A family of dicotyledonous choripetalous plants of the order Hypericales, consisting of the single genus Fouquieria (which see).

fouquieriaceous (fö-ki-ā-ri-ā'shius), a. Belonging to the plant family Fouquieriaceæ.

four, n. 7. In cricket, a boundary; also, a ball hit by the batsman, which reaches the boundary, thus scoring four runs. See *fourer.

dog-toes and pussy-toes.

rovea canina. Same as canine fossa (which see, under canine).—Fovea ischiadica, in ornith., the most evi-dent depression on the lower side of the pelvis, lying just madvance of the first true sacral vertebra.—Fovea just he depression at the root of the neck between the sternal origins of t

The formation or the presence of pits, noting

this phenomenon in the pock-mark or vaccination-scar. Biometrika, Feb., 1903, p. 137. foveiform (fō'vē-i-fòrm), a. Having the character of a pit, depression, or fovea. foveolated (fo've-o-la-ted), a. Same as fore-

foveolate-punctate (fo'vē-ō-lat-pungk'tāt), a. In entom., punctured with foveolæ, as the elytra of certain beetles.

fow11, n.—Hollow fow1, "poultry, rabbita, etc.; any meat not sold by butchers." Halliwell.

fowl-mite (foul'mit), n. See *chicken-mite.
fowl-pock (foul'pok), n. Same as *hen-pox.
fowl-tick (foul'tik), n.

Either Argas persicus of South Africa, or Argas miniatus of America, giant mites which attack chick-

fox1. n. 5. A drain carried under another watercourse by means of a depressed culvert forming an inverted siphon. Commonly called a dip-culvert or a dive-cul--6. One of the northvert. ern constellations (Vulpecula), situated between the constellations of the Swan magni

Fowl-tick (Argas muni-

and the Dolphin.—7. [Tr. D.A.)
G. fuchs.] A freshman in a German university. [Not used in American colleges.]

A duel was going on between two Füchse (Freshmen). . . The two "foxes" fought out their time and were released, greatly to their own satisfaction.

J. M. Hart, German Universities, pp. 71, 72.

fox-chop (foks'chop), n. A cultivated form fox-chop (foks'chop), n. A cultivated form of the dog's-chop, Mesembryanthemum caninum. fox-farming (foks'fär-ming), n. The industry of rearing the blue or arctic fox (Vulpes lagopus) for its valuable skin. Uninhabited islands of the Aleutian chain in Alaska are used for the purpose, the animals being allowed to run wild. The only care given them consists in supplying them with food, and they are trapped as in the wild state. fox-feet (foks'fēt), n. The fir club-moss. Lyconodium Selago.

podium Selago.

foxglove, n. 4. The pitcher-plant, Sarraccuia purpurea.—5. The trumpet-creeper, Campsis purpurea.—5. The trumpet-creeper, Campais radicans.—American foxglove, Dasistoma Pedicularia, a large, much-branched, viscid-hairy herb of estern North America, with broad twice-pinnatifid leaves and large yellow flowers resembling those of the forglove in shape.—Blue foxglove, the throatwort, Campanula Trachetium. See throatwort, 1.—False foxglove, (b) Any species of Dasistoma, American plants with large yellow flowers, related to the foxglove. D. Jarvan is the downy false foxglove; D. Levigatum, the entire-leaved foxglove; D. Pedicularia, the fern-leaved foxglove; D. Pedicularia, the fern-leaved foxglove; D. Virginicum, the smooth foxglove; and D. grandiforum, the western false foxglove.—Ladics—or ladys-foxglove, the mullen, Verbascum Thapsus.—Lousewort foxglove, the American lousewort, Pedicularis Canadenia.—Mullen foxglove, the Mest Indian foxglove, the Spanish calla, Phytolacca octandra.—White foxglove, the haskwort, Campanula latifolia. See haskwort.—Yellow foxglove, the downy false foxglove, Dasistoma favors.

[Ox-grass (foks gras), n. See salt-marsh

fox-grass (foks'gras), n. See salt-marsh

fox-head (foks'hed), n. 1. The head of a fox. -2. A drinking-cup in the form of the head of a fox, suggested by the Grecian rhyton. Such cups were made by European potters in the latter part of the eighteenth century. Fox Hills group. See *group1.

fox-key (foks'kē), n. A split key into the end of which is driven a thin wedge of steel to prevent it from working out.

ox-poison (foks'poi'zn), n. The spurge-laurel, Daphne Laureola.

Daphne Laureola.

foxtail, n.—Alpine foxtail, Alopecurus alpinus, an erect short-headed species which occurs in the arctic regions of both hemispheres.—Branching foxtail, Chstochloa composita, a stout species with a bristly, branching panicle. It extends from the West Indies into southern Florida. The name has also been applied to one of the windmill-grasses, Chloris verticillata.—Bristly foxtail, Chetochloa verticillata, a species with rather short adhesive awns, a weed found sparingly in wasteplaces. Sometimes also the Hungarian grass C. Italica.—Floating foxtail, the water-foxtail, Alopecurus geniculatus, a species widely diffused in Europe, Asia, and North America, affording excellent grazing in wet places.—Large foxtail, in California, the larger species of barley-grass, Horderum, more properly called squarreitail.—Meadow-foxtail, a pasture-grass, Alopecurus pratensis, native in Europe and introduced into North America. It is valuable in mixtures for pasture in moist ground on account of its earliness and other good qualities. Its heads, like those of other species of the genus, suggest a small timothy. See cut on following page.—Mountain foxtail, Alopecurus occidentais, an erect species growing in mountain meadows of the Rocky Mountains, occasionally abundant and yielding a fine, long, bright-colored hay. The heads arthicker and shorter than those of the meadow-foxtail.—

Small foxtail, in California, the smaller species of Hordeum. See large #foxtail.—Smooth foxtail, Chetochloadin inherbic and smaller. imberbia, a species somewhat resembling the yellow foxtail, but easily distinguished by its longer bristles and by its rootstocks. It is widely diffused it several varieties, being found in the southeastern United states, the West Indies, and Mexico.—Western foxtail. Same as mountain *foxtail. Chetochloa glauca, a very common grass of mild latitudes, appearing as a weed in cultivated ground. Also known as prigeonars (which see). See cut at *Cheto-chloa.

foxtail-pine imberbis, a species somewhat resem-



a, plant, one fourth natural size; b spikelet; c, flowering glume; d, stamen and pistil. (b, c, and d slightly enlarged.)

foxtail-pine (foks'tāl-pin'), n. 1. See fortail-pine, under pine!—2. Pinus Balfouriana, a small tree of the northwestern United States, resembling P. aristata, but having the scales destitute of prickles.—3. The loblolly-pine, Pinus Tæda. foxy!, a. 4. In painting, marked by a disagreeable, hot quality of color.—5. Penetrative and roll consists and roll. ing and well acquainted with the ways of the world; sharp; especially, having an air of knowingness: it then signifies a not very es-

fractabling (frak'ta-bling), n. A coping, as of a fractable, but the term often extended to include the coping of any wall.

fractile (frak'tit), a. [L. fractus, broken, + -ile.] That may be broken or cleft; pertain-

ing to breakage or cleavage.

fraction, n., 4. In math.: (c) In geom., any
multiple of any submultiple of a magnitude.— S. In chem., one of the parts into which a substance is separated in the process of fractional distillation. See fractionation.—Continued fraction of the second order, a fraction whose numerator and denominator are themselves continued fractions. See continued fraction, under continued.—Ordinal fraction, a mark for an object interpolated in a natural series or row.

fraction (frak'shon), v. t. [fraction, n.] Same as

Although the gas contained so little silicon hydride, they succeeded in fractioning it.

Amer. Chem. Jour., March, 1903, p. 282.

Fractional crystallization, diffusion, equation, function, number. See *crystallization, etc.

fractionate, v. t.—Practionating tube. See *tube. fractionator (frak shon-a-tor), n. In chem., an apparatus for fractional distillation.

an apparatus for fractional distribution.

Fracto-cumulus (frak'tō-kū'mū-lus), n.; pl. articles as canes, umprenament, fracto-cumulus; an illegs.

defined cloud in the first stage of condensation and representing the tops of small, low atmoning: see fracture. In printing, the form of pointed letter used in ordinary German books are waves due to rapid winds near the surfracto-cumulus (frak'tō-kū'mū-lus), n.; and representing the tops of small, low atmospheric waves due to rapid winds near the surface of the ocean or land; scud. The fractocumulus is, relatively speaking, a low cloud, lying some distance below the flat base of the ordinary cumulus. See *cloud1, 1. fracto-nimbus (frak' tō -nim' bus), n.; pl. fracto-nimbi (-bī). An ill-defined, ragged. or broken cloud from which rain falls or is threatening to fall. See *cloud1, 1. fracto-stratus (frak' tō -strā' tus), n.; pl.

fracto-stratus (frak'tō-strā''tus), n.; pl. Royal Academy of Music. fracto-strati (-ti). The edge of a stratus framboesial (fram-bē'si-al), a. cloud which is disappearing through the -all.] Relating to or of the na evaporation of its moisture, leaving only ragged portions which soon disappear. *cloud1, 1.

Facture, n. 4. In phonol., same as breaking, 2. A. L. Mayhev, Old Eng. Phonol., V. i. § 81.

— Barton's fracture, fracture of the lower articular end of the radius.— Bennet's fracture, a fracture of the first metacarpal bone.— Complicated fracture, such as an important nerve or a large blood-vessel.—Depressed fracture, a fracture in which the broken part is sunken below the general surface of the bone: noting usually a common form of fracture of the skull.— Extracapsular fracture, fracture of a bone, such as the hip-bone, near

the joint but outside of the capsular ligament.—Fracture fever. See *fever1.—Hickory-stick fracture. Same as greenstick fracture.—Incomplete fracture, a fracture in which the bone is not broken entirely across: a greenstick fracture is of this nature.—Intra-articular fracture, a fracture involving the articular surface of the bone.—Intracapsular fracture. See intracapsular.—Linear fracture, a fracture running lengthwise of the bone.—Multiple fracture, fracture of several bones or of one bone in several places.—Surver-fork fracture. Same as Colle's fracture.—Spontaneous fracture, a fracture produced by a very slight force, such as simple muscular contraction, due to abnormal brittleness of the bone or to its partial destruction by a cancer or other lesion.—Sprain fracture, rupture of a tendon from its point of attachment to the bone, a splinter of the latter being torn away with the tendon.—Willow fracture, Same as greenstick fracture.—Zone of fracture, a name suggested by C. R. Van Hise for the outer portion of the earth's crust, in which the deformation of rocks produces fractures and open cavities. As the depth increases and the load becomes greater, weak rocks, such as shales, can at 500 meters no longer maintain cavities, and the limit of resistance of even the firmest granites is reached at 10,000 meters, or the zone of *hourge* (which see). Between these limits lies the mixed zone of fracture and flowage, embracing rocks of variable resistance.

frænum, n. See frenum.
fragarianin (fræ-gæ'ri-a-nin), n. [Fragaria +
-in².] A glucoside found in the roots of Fragaria vesca.

fraghan (fran), n. [Also fraun, representing, raspan (fran), n. [Also fraun, representing, respectively, the spelling and the present pronunciation of Ir. fraochan, the plural of fraochag, a whortleberry, \(\) fraoch, heath.] The whortleberry, \(Vaccinium Myrtillus. \) fragil, \(a. \) A simplified spelling of fragile. fragilin (fraj'il-in), n. [L. fragilis (see def.) + -in².] A compound crystallizing in red or reddish-yellow needles and found in Sphærophorus fragilis.

knowingness.

It imable character.

P. P. An abbreviation of fire-plug.

F. P. S. An abbreviation (a) of Fellow of the Philosophical Society; (b) of Fellow of the Philosophical Society of Great Britain.

Fr. An abbreviation (b) of France; (c) of Fringment (fragment), r. i. [fragment, n.] To break up into pieces: said of a cell-nucleus or nucleolus that breaks up amitotically into two or more pieces of unequal size. ragilitas (frā-jil'i-tas), n. [L.] Brittleness.

Fragilitas crinium, brittleness of the hair.—Fragilitas osium, a condition in which the bones break very easily, sometimes as a result of simple muscular action.

or more pieces of unequal size.

fragmental, a. 2. Same as clastic

fragmented (frag'men-ted), p. a. Broken into fragments; specifically, in biol., broken or separated into parts each of which forms a new individual. See fragmentation.

A few streptococci and isolated filaments are found in the exudate of the catarrhal bronchitis and in the alveoli filled with fragmented leukocytes and organizing exudate. Jour. Exper. Med., Oct. 25, 1900, p. 162.

ragrant fern. See *fern. frail², n. 4. A wooden carrier or crate used by glaziers to carry sheets of glass. [Eng.] frailejon (fra-ē-lā-hōn'), n. [S. Amer. Sp., aug. of Sp. fraile, a friar: see friar. The name alludes to some fancied resemblance of the plant to a friar with his gown and cowl.] general name for a growth of peculiar tall composite plants belonging to the paramos of the equatorial Andes. Their densely hairy ensiform leaves are as long as the arm and form resettes, sometimes pressed to the ground, sometimes crowning a massive stem clad with dead leaf-bases.

fraising-machine (fra'zing-ma-shen'), n. profiling-, forming-, or routing-machine used in roughing out the carving or shapes on such articles as canes, umbrella-handles, and chair-

and newspapers. It differs from the older German black-letter in the greater stiffness and similarity of the shapes, and in the points or finials with which it bristles. Though black and forbidding, fraktur is a thin character. The small letters are about one fifth narrower than roman letters of same size of body. DeVinne, Mod. Book Composition, p. 253.

This is Fraktur Type.

P. R. A. M. An abbreviation of Fellow of the

[frambæsia +

frambæsiform (fram-bē'si-fôrm), a. Resem-

bling frambæsia or yaws. frame, v. t. 7. In ship-building, to erect and adjust the frames of (a vessel) in place above the keel on the building-slip.

frame, n., 5. (b) In ship-building, one of the ribs or transverse members which extend up

on each side of the keel and support the outside planking or plating. In a wooden vessel a frame is made up of curved pieces of timber. The lowest piece is the floor-timber, which extends across the keel.



The next piece is the first futtock, the lower part of which laps on one side of the floor, and the upper part laps on the side of the second futtock, the lower end of the latter butting against the upper end of the floor-timber. The successive pieces are called third, fourth, etc., futtocks, and the last the top-timber. The various pieces are through-botted to each other across the central joint, thus forming the complete frame. In iron and steel vessels the frames are of the most various forms. The simplest is that consisting of a frame angle-bar, a reverse frame angle-bar, and a floor-plate. In the upper part of the frame the frame-bar and reverse frame-bar are riveted back to back, as shown in the section. This is called a built frame. In the lower part the two bars are spread apart and riveted to the floor-plate interposed between them. (See cut under floor, 5.) In modern steel vessels, particularly men-of-war, a single piece, as a channel-bar, bulb-angle, or Z-bar, takes the place of the frame-bar and reverse frame-bar and reverse frame-bar. This is called a solid frame. In vessels with a double bottom the frame in the lower part of the frame is a percentant steamers with double bottoms a generally similar construction is adopted. The tupper part of the frame is a peece separate from that in the bottom, and it is secured to the margin-plate by a bracket and gusset. (See cut under *bracket1.) Other forms of frames are used in vessels in various places. (See deep *frame, *belt-frame, *ueb-frame, but more usually longitudinal members in the framework of the double bottom are sometimes called longitudinal frames, but more usually longitudinals. A boss-frame is one of the frames at the stern-which are curved out around the stern-tube. The transom-frame is that at the stern-post in vessels laving an overhanging stern. It has a very deep floor which is riveted to the upper part of the stern-post, and the realisting stern-frames abaft it, forming the con-The transom-frame is that at the stern-post in vessels having an overhanging stern. It has a very deep floor which is riveted to the upper interior part of the stern-post, and the radiating stern-frames abaft it, forming the contour of the stern, are secured to it at their heels.

6. (g) In bee-keeping, an open four-cornered box, readily removed from the hive, in which the bees construct their combs. (h) In printing, same as composing-stand.

10. In bowling or tenpins, a division of the



their combs. (h) In printing, same as composing-stand.

10. In bowling or tenpins, a division of the game through which a player continues at one setting of the pins. Three balls usually constitute a frame.—11. In pool: (a) The triangle used to spot the balls in pyramidal form at pyramid, continuous, following, and fifteenball pool and their offshoots. (b) The leg or game played with such a set of balls at all except continuous pool.—Ampère's frame, a support for a couple of wire helices through which an electric current is made to pass. The colls then behave as if they were magnets. Wires bent in other forms may be similarly suspended.—Deep frame, in iron ship-building, one of the frames are about 50 per cent. deeper transversely than in a similar vessel with hold-beams or lower deck.—Frame angle-bar, in iron ship-building, the outer bar of a frame to which the outside planting is riveted. See hyrame, 5(b).—In frame, in ship-building, said of a vessel of which the frames are erected and regulated in place on the building slip before the outside planting or plating is put on.—Intermediate frame, in ship-building, one of the frames which stand square across the central plane of the vessel, as distinguished from a cant-frame or cant. The greater part of the frames of all vessels are square frame, and in modern iron and steel vessels, in which the material used permits beveling without loss of material, nearly or quite all are square frames.

Trame-angle (frām'ang'gl), n. Same as **frame angle-bar.**

frame-angle (fram'ang'gl), n. Same as * frame anale-bar.

frame-bar (fram'bar), n. Same as *frame anale-bar.

frame-hive (fram'hiv), n. A beehive so constructed as to contain movable frames.

frame-lifter (fram'lif"ter), n. A strip of lace, attached to the glass frame of a carriage, by which it is lifted out of its bed in the door or body.

-all.] Relating to or of the nature of fram-frame-liner (frām'lī'ner), n. See * liner2, 5. boesia or yaws. Lancet, May 30, 1903. frame-plate (frām'plāt). n. A rolled plate frame-plate (frām'plāt), n. A rolled plate forming the web of the side-frame for a locomotive.

frame-slotter (fram'slot*er), machine especially adapted for finishing the side-frames of locomotives.

Frame-slotting machine. See *slotting-ma-

frame-work, n. 4. Spinning done on a throstleor ring-frame; also, knitting done on a stocking-frame.

raming-piece (fram'ing-pēs), n. A straigut law, a holding in frank-fee. head at right angles with the axle and extending from the front of the fifth wheel-plate to the horn-bar.

The straight angles with the axle and extending from the front of the fifth wheel-plate to the horn-bar.

The straight angles with the axle and extending qualities, mixed and sweetened, and frozen.

The straight angles with the axle and extending qualities, mixed and sweetened, and frozen.

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The straight angles with the axle and extending qualities, mixed and sweetened, and frozen.

The straight angles wit all the straight and extending qualities and extending qualitie framing-piece (fram'ing-pes), n.

franceschino (fran-ches-ke'nō), n. [It.

francescone (frän-ches-kō'ne), n. [It., < Francesco, Francis.] The silver ecudo of Francis of Lorraine, who died in 1737, equal to 10 paoli

or of live.

franchise, n.—Municipal franchise. (a) A legislative grant or charter by which a municipality, as a city, town, village, etc., is organized and empowered to make laws or ordinances for its own government. (b) A privilege or grant extended by a municipal corporation to a private corporation or person, as the right to maintain a street-railway, to use streets for water- or gas-mains, etc.

francisc (fran-sisk'), n. [francisca.] Same as

Franckean (frank'ē-an), a. Of or pertaining to the work or opinions of A. H. Francke, one of the leaders in the Pietist movement in frass (fras.). a. Germany at the beginning of the eighteenth

franckeite (frang'kā-īt), n. [Named after Carl and Ernest Francke, mining engineers.] A sulphid of antimony, tin, and lead, containing also small amounts of silver and germanium, found in the mining region of Las Animas,

Franco-Annamese (frang'kō-an-a-mēs'), a. and n. I. a. Pertaining to both France and Annam.

II. n. A person of mixed French and Annamese descent.

Franco-Canadian (frang'kō-ka-nā'di-an), I. a. Pertaining to both France and Canada.

II. n. A person of mixed French and Cana-

dian-Indian descent. [Rare.]
Francophil, Francophile (frang'kō-fil), a. and n. [NL. Francus, French, + Gr. $\phi(\lambda o_{\mathcal{C}}, loving.]$]
I. a. Very friendly to France or the French.

The *Francophil* attitude of Italy towards the end of the ranco-German war. *Encyc. Brit.*, XXIX. 634.

II. n. One who is very friendly to France or the French.

Francophobe (frang'kō-fōb), n. [NL. Francus, a Frenchman, + Gr. -φοβος, < φοβεῖν, fear.] One who is possessed with a morbid fear of the French. N. E. D.

Francophone (frang'kō-fōn), n. [NL. Francus, French, + Gr. φωνή, sound.] One who speaks the French language. Deniker, Races of Man,

frangulic (frang'gū-lik), a. [frangul-in + -ic.] of or pertaining to frangulin.—Frangulic acid, a brownish-yellow crystalline compound, C₁₄H₈O₄, isowith alizarin.

Frankfort agreement. See *agreement. frankfurter (frangk'för-ter), n. [G. Frankfurter wurst, 'Frankfort sausage.'] A highly

seasoned variety of German sausage. I A lingily seasoned variety of German sausage. frankincense, n. 1. The principal trees yielding resinous exudations known as frankincense are: (a) Bosnellia Carterii (see Bosnellia); (b) the Norway spruce, Abies Picea; (c) the loblolly-pine, Pinus Tæda (see frankincense, 2); and (d) Styraz punctata (see Styraz).—West African frankincense. Same as *bumbo2. See also buselists.

franking-machine (frang'king-ma-shēn"). A machine for cutting the ends of the bars for a window-sash in such a way as to give the joints the appearance of mitered joints.

frankist (frang' kist), n. One of a semi-Christian sect of Jews founded by Jacob Frank (1712-91) in the province of Podolia, Poland. The Frankists are also called Zoharites, because they rejected the teachings of the Talmud and accepted for their guide the mystical doctrines of the cabala of the Zohar, or "book of splendor."

Franklinia (frangk-lin'i-ë), n. [NL. (Bartram, 1785), named in honor of Benjamin Franklin (1706-90), the American statesman and scientist.] A genus of plants of the family Theaces, closely related to Lasianthus namily Ineacese, closely related to Lastanthus and by some authors united with it. F. Altamaha (Gordonia pubescens of L'Héritier), the only species (discovered by the Bartrams on the Altamaha river in Georgia), is now known only in cultivation. It is a small tree, reaching a height of 20 feet, with lustrous but deciduous foliage and handsome white magnolia-like flowers opening from late summer till autumn. It is hardy as far north as Philadelphia.

Franklinist (frangk'lin-ist), n. An electrician who advocated the one-fluid theory of electricity originated by Benjamin Franklin.

The terms Franklinism, Franklinist and the Franklinian system occur in almost every page.

Priestley, Hist. of Electricity, I. 193.

A straight frank-tenure (frangk'ten'ūr), n. In feudal fa carriage law, a holding in frank-fee.

ranceschino (frän-ches-kē'nō), n. [It., < Royal Astronometal Society.

Francesco, Francis.] A Tuscan silver coin of frasco (fräs'kō), n. [Sp., a flask: see flask.]

A liquid measure used in some Spanish-Americancescone (frän-ches-kō'ne), n. [It., < Francescone (frän-ches-kō'ne), n. [It., < Francescone (frän-ches-kō'ne)]

quarts.

frase, n. and v. A simplified spelling of phrase.

fraseologic fraseologist. etc. Simplified

frase, n. and v. A simplified spelling of phrase. fraseologic, fraseologist, etc. Simplified spellings of phraseologic, etc. Fraser-Mortimer variation. See *variation. Fraser's attack. See *attack. frasil, n. See frazil. Frasnian (fras'ni-an), a and n. [F. Frasnes, a town of Belgium.] I. a. In geol., of or pertaining to the lower division or stage of the Upper Devonian in Belgium and northern France.

The Frasnian division.

frass (f.4s), s. [G. frass, food for swine, nasty food (OHG. fraz, food), < OHG. frazzen, G. fressen, = AS. fretan, eat, devour: see fret1.] The excrement of a larval insect. frate (fra*/te), n. [It., < L. frater, brother: see friar.] An Italian friar or monk.

fraternalism (fra-ter'nal-izm), n. [fraternal + -ism.] The character of being fraternal; specifically, the cultivation and safeguarding of that fraternity, or brotherhood of an entire people, demanded by the French revolution-

In a New Zealand aiming to realize a democratic fra-ternalism, conscience strikes its high noon. E. A. Ross, Social Control, p. 58.

fraternity, n.— Greek-letter fraternity, in the United States, a (generally) secret society, formed among undergraduate collegians, chiefly for social purposes, and designated by two or more letters of the Greek alphabet. A fraternity usually consists of several 'branches or chapters' situated in the various colleges. Many have large and costly 'fraternity houses.' Membership does not terminate on graduation.

Fratricellians (frat-ri-sel'i-anz), n. pl. Same

frau (frou), n. [G., = D. vrouw, etc.: see frow¹.] In German use, a woman; a married woman; a wife; lady; as a title, Madame; Mrs.: as, Frau Schultze.

Mrs.: as, Frau Schultze.

fraud, n.—Badge of fraud. See *badgel.—Fraud order, in postal service, an order from some postal authority to a local postmaster suspending the delivery of mail-matter to any party known or suspected of using the mails for illegal purposes.

fräulein (froi 'lin), n. [G., < frau, woman, lady, + dim. -lein.] In German use, an unmarried woman; a young lady; as a title, Miss: as, Fräulein von Reuter.

frazzle (fraz'l), v.; pret. and pp. frazzled, ppr. frazzling. [Also frazle; orig. E. dial., a var. of fasel, E. dial. fazle, fazzle, farzel, v., perhaps by association with fray², v.] I. intrans. To ravel out, as the edge of a fabric; unravel; frav.

II. trans. To wear, as by hard usage, into

shreds, rags, or tatters; fray out; tear to pieces. [Prov. Eng. and U. S.] frazzle (fraz'l), n. [frazzle, v.] A shred; a tatter; a frayed rag; a frayed or worn-out condition: as, to be worn to a frazzle. [Prov. ng. and U. S.]

P. R. C. I. An abbreviation of Fellow of the Royal Colonial Institute.

P. B. C. O. An abbreviation of Fellow of the Royal College of Organists. F. B. C. P. An abbreviation (a) of Fellow of the Royal College of Physicians; (b) of Fellow

of the Royal College of Preceptors.

R. C. P. E. An abbreviation of Fellow of

the Royal College of Physicians, Edinburgh.
F. R. C. S. (E., I., or L.) An abbreviation of Fellow of the Royal College of Surgeons (of

Edinburgh, of Ireland, or of London).
F. B. C. V. S. An abbreviation of Fellow of the Royal College of Veterinary Surgeons.

freckle, n.—Cold freckle, a spot similar to a freckle occurring on a portion of the skin not exposed directly to the light.

19. In hort., abundantly blooming or free, a. 19. In Nort., abundantly blooming or fruiting; also, of profuse and rapid growth.

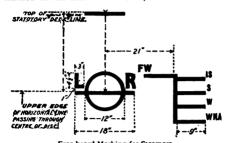
—Free association, in exper. psychol., an association freely effected by the observer, in an experiment upon the association of ideas—effected, that is, in terms of his mental constitution and existing stock of ideas, without restraint or suggestion from the side of the experimenter: opposed to ambiguous or partially constrained and to univocal or constrained associations. E. B. Titchener, Exper. Psychol., II. i. 192.—Free cheeks, hit, idea, etc. See *cheek*, etc.—Free coinage*, a phrase denoting that the mint is open to any one who may

bring bullion to be coined. The United States mint is now (1906) closed to the free coinage of silver.—Free Methodist Church. See Free Methodists, under Methodist.—Free of general and particular average, in marine underwriting, a clause limiting liability to total loss. See average.—Free overside, in com., free of all charges down to the moment of discharge: said of merchandise bought for import: same as *ex ship.—Free Quaker. See quaker.

Pree Quaker. See quaker.
freeboard (fre'bord). n. [Also formerly freeboard, tr. OF. frank bordum, 'free board,' freeboard.] A margin of ground, specified in some cases as two and a half feet in width, in other cases much more, claimed beyond or out-side of a fence which incloses a place, as a park

side of a fence which incloses a place, as a park or forest. [The nautical use is later: see free-board.]

free-board², n. The minimum free-board to which British merchant vessels may be loaded is indicated by a mark known as the Plimsoll mark. Lloyd's Register is empowered to assign the deepest water-line to which a vessel may be loaded. The lines must be permanently marked on the side of the vessel, as shown in the cut.



FW is the fresh-water free-board line to which the ship can be loaded in a fresh-water harbor. S is the corresponding summer load-line for the same displacement in salt water. W is the winter free-board line. WNA is the winter free-board line. WNA is the winter free-board line. WNA lantic. IS is the line for summer voyages in the North Allantic. IS is the line for summer voyages in the Indian Ocean. L R is Lloyd's Register. For sailing-vessels the FW and WNA lines only are marked.

freedom, n.—Economic freedom, the exercise of deliberate and free choice in economic activities, as in the sale or purchase of commodities or services, the production or consumption of wealth, or the selection of an occupation; absence of legal or customary restraints upon economic conduct.

freedomism (fre'dum-izm), n. [freedom + -ism.] The doctrine of the freedom of the will;

The doctrine of the freedom of the will; libertarianism: opposed to necessitarianism. [Rare.]

It may be true that consciousness is an illusory guide, but this is nothing in favor of necessitarianism. . . . If it be illusory, argument on either side of the question is perfectly futile; for I have nothing but the testimony of consciousness to the cogency of the argument for necessarianism. But if that authority be impeached, I am as much in the dark about that theory as I can possibly be about freedomium. about freedomism. J. H. Huslop, Elem. of Ethics, p. 214.

free-fooder (fre'fö'der), n. One who is opposed to the taxing of food-stuffs. [Nonce-word.]

That class of free-fooders which regards any legislative interference with the buying and selling of anything of the nature of food, however bad, as noxious economic heresy, and a restriction of the free play of competition.

Nature, Dec. 24, 1903, p. 178.

freeing-port (fre'ing-port), n. In ship-building, a hole in the bulwarks close to the deck, with a flap-cover which opens outward to permit water that comes on the deck to run overboard

freely. Also freeing-scuttle. freeing-scuttle (freeing-skut'l), n. Same as *freeing-port. free-select (fre'se-lekt"), v. t. To select and

take up (undisposed-of crown lands) under the Australian land laws, and acquire title to the same by annual payments during a series of

years. See *free-selection. [Australia.]
free-selection (fre'se-lek'shon), n. A system
by which a settler in an Australian colony may select, take up, and acquire perfect title to a block of from 40 to 320 acres of crown lands at a fixed rate per acre (usually twenty shillings), and pay for the same at the rate of one shilling per acre per annum for twenty years. [Aus tralia.

free-selector (fre'se-lek'tor), n. One who free-selects crown lands in Australia. See *free-

selection. [Australia.]
free-silver (fre silver), a. Advocating the free
and unlimited coinage of silver at an arbitrary

standard rate: as, the free-silver at an arbitrary standard rate: as, the free-silver party.

Free-stater (free starter), n. A native or inhabitant of the Orange Free State of South Africanow a British colony with the title of 'Orange

River Colony.'

free-wheel (frē'hwēl), v. i. 1. To ride a bicycle
with the wheel free from the control of the

pedals; coast.—2. To free the wheel of a bicycle from the control of the pedals.

freez, v. and n. A simplified spelling of freeze freeze¹, v. t.—To freeze out. (b) In poker, to cause one to lose all his original stake in a game of freeze-out. See *freeze-out, 2. freeze-out, (freez'out), n. 1. The act of freezing out. See to freeze out, under freeze¹, v. t.

2. A variety of poker in which each player starts with an equal number of chips and no one is allowed to replenish his stock or to with-draw or loan any part of it. As soon as any player has lost his capital he is frozen out, and

must retire from the game.

freezer, n. 2. A sheep whose mutton is intended to be frozen and exported. [Australia.] freezing-tank (freezing-tank), n. In ice-making, a large tank fitted with cold-brine circulating pipes and containing cold brine which is kept in constant circulation by means of a brine-agitator, in which distilled water is brine-agitator, in which distifled water is placed in cans to be frozen. It is usually fitted with a can-filler, an air-hoist, and a traveling crane for lifting the cans of ice and conveying them to the ice-dump, where the blocks are loosened and discharged, and, if too large, are sawed into convenient shapes for handling. A large tank may have a capacity of 100 tons of ice a day. Prégier line. Same as Frégier *** ***traight.** Prégier point, straight. See ***point1, ***traight.** Prégier point, straight. See ***point1, ***traight.** Treight, and insurance. See **cost2.** freight-agent (frāt'ā'jent), n. The person in the employ of a transportation company who has charge of the freight-carrying department of its business, either at the head office (the

of its business, either at the head office (the general freight-agent), or at some particular port or station.

port or station.

freight-ton (frat'tun), n. Forty cubic feet of cargo: frequently used as the basis of freight charges in ocean transportation of light bulky goods irrespective of their actual weight. See ton. 2 (k).

freight-tonnage (frat'tun'aj), n. space for cargo on a vessel measured in freight-tons of 40 cubic feet.

Freight tonnage is simply a measure of cubical capacity. Merchants and shipowners make considerable use of this measurement, although it has no legal authority.

White, Manual of Naval Arch., p. 72.

White, Manual of Naval Arch., p. 72.
fremitus, n.—Hydatid fremitus. Same as hydatid thrill (which see, under thrill!).
Fromont cottonwood. See *cottonwood.
French boston, cliff, curve, decimal candle, gall, gray, See *boston, etc.—French minute, a centesimal minute. See centesimal division.—French schools of painting, schools of soulpture, seal. See *painting, *sculpture, *seal!.—French second, a centesimal second. See centesimal division.—French weed. (b) The penny-cress, Thiaspi arrense: said to be so called, on account of its offensive qualities, in parts of Canada of anti-Gallic sentiment. See penny-cress and *stinkweed, 3.
French (french), v. I. trans. [French, a.] 1.
To prepare according to the French mode.—
2. To dress, as a chop, by partly freeing the bones.—3. In metal., to carry out the last step in the refining of metallic antimony, by which

in the refining of metallic antimony, by which 'bowl metal' is converted into 'star metal.'

II. intrans. [l. c.] In bot., to appear distorted and unnatural, owing to some abnormal condition of the plant. See *frenching.

Prench-fried (french'frid), a. Said of potatoes

which are cut into strips, triangular in section, and fried in hot fat.

frenching (fren'ching), n. The peculiar distorted and dwarfed condition of cotton, tobacco, corn, and other plants, due either to some fun-gus or to disturbed nutrition: often used synonymously for the mosaic disease. See mosaic *disease.

Frenchism (french'izm), n. [French + -A custom, usage, or idiom peculiar to or characteristic of France or the French; a Gal-

frenologer, frenologic, etc. Simplified spell

frenologer, frenologic, etc. Simplified spelling of phrenologer, etc.

frenum, n.—Frenum Morgagni, a duplicature of tissue serving as a stay to the ileocecal valve.

freq. An abbreviation (b) of frequent.

frequency, n., 3. Specifically, the numerical measure of the rate of vibration of an oscillating body, or the rate at which the cycles of any periodic motion repeat themselves. In acoustics, frequency is synonymous with pitch, although the pitch of a sounding body is usually expressed in terms of the number of single vibrations per second, whereas frequency is given in double or complete vibrations. The frequency of vibration of bodies sending out waves capable of affecting the human ear lies between two fairly well-defined limits. The lower auditory limit, which corresponds in pitch to the lowest audible tone, is about 20 complete vibrations per second. The upper limit varies somewhat with the individual, but lies between 15,000 and 20,000 complete vibrations per second. The trequency of vibration to which light-waves are due is very much higher than that of sounding bodies. Since the frequency necessary to maintain a train of waves is directly proportional to the velocity of the wave-motion, S.—32

and since ether-waves move with a velocity about one million times as great as that of waves in the air, the frequency of ether-waves would be a million times as great as sound-waves of the same wave-length. Sound-waves, however, have a wave-length about a million times that of light-waves, so that the frequency of light-waves is about a million million times as great as that of sound-waves. Light-waves, like sound-waves, have a considerable range of frequency, but the limits of visibility, which correspond to the limits in wave-length of the visible spectrum, lie closer together than the limits of audibility. The longest wave-length which produces an effect upon the eye is .76 \(\mu\), frequency 4×10^{14} vibrations per second; while the shortest wave-length to which the eye is sensitive is about .40 \(\mu\). These waves, which constitute the extreme violet of the system, have a frequency of 7.5 \times 10¹⁴ vibrations per second. Ether-waves of frequency too great to affect the eye are also known to exist. These, which constitute the ultra-violet spectrum, are detected by means of their action upon the photographic plate or by their power of producing fluorescence. The shortest ether-waves known to exist have a wave-length of about .1 \(\mu\) and a frequency of 30×10^{14} vibrations per second. Rther-waves the length of which is too great to affect the eye are also known to exist. These constitute the infrared spectrum and are detected by means of their thermal action. The longest waves known to be due to the vibrations set up in a body by virtue of its temperature have a wave-length about $60 \times mu$ and a frequency of 5×10^{14} vibrations per second. It is possible by electrical means to produce ether-waves similar in all respects to light-waves but of much lower frequency. The range of such etherwaves, thus far produced, lies between 1×10^{10} vibrations per second and 0. The terms high frequency and towe frequency discharge. The former being applied to comparatively rapid and the other t

quency discharge.

4. In elect., see *alternating.—Convergence frequency. See *convergence.—Frequency converter, curve. See *converter, 3, *curve.—Group frequency, the frequency, withany statistical value, of the occurrence of a character in a group of organisms.—High frequency, a frequency greater than that commonly obtained or employed. Thus the rapid oscillatory discharge of a Teals coll is said to be a discharge of high frequency. See *frequency, 3.—High-frequency wave. See *treavel.—Law of frequency. See probability curve, under probability, 2, Rule II.—Modal frequency, the relative frequency in the population, considered of individuals, with the modal value of a character.

fresh, a. 13. Noting a cow that has recently given birth to a ealf.

freshen, a. 13. Noting a cow that has recently given birth to a calf.
freshen, v. t. 4. In surg., to denude (a part) of its tegument so as to form a raw surface which will readily unite with a similar surface when the two are brought into apposition.—
To freshen ballast, to shift the ballast about.
Tesnel-Arago law. See *law1.—Fresnel's biprism.

fret 1, v. t. 6. To form by fretting or corrosion.

Let it stampe wrinkles in her brow of youth, With cadent Teares fret Channels in her cheekes. Shak., Lear, i. 4.

fret³, n.—Curvilinear fret, in ornamentation, a form developed in curved lines, as distinguished from straight lines and angles; curvilinear pattern.—Dovetail fret, in arch., a fret which has obtuse and acute angles, being made up of diagonal lines, which gives to each section or member a wedge shape, as of a dovetail.

freta, n. Plural of *fretum.

freta, n. Flural of *fretum.
fret-board (fret'bord), n. In musical instruments of the lute and zither classes, a strip of hard wood, provided with frets, against which some or all of the strings can be stopped so as ments of the lute and zither classes, a strip of hard wood, provided with frets, against which some or all of the strings can be stopped so as to alter the pitch of their tones. In the violin and similar instruments frets are now unusual, and the analogous part is called the finger-board.

fretum (frē'tum), n.; pl. fretu (11). [L. fretum, a strait, sound, channel.] In embryol., a fretion-clurch fretion or the final portion of a lever or cam.

fretum (frē'tum), n.; pl. fretu (18). [L. fretum, a strait, sound, channel.] In embryol., a constriction in the embryonic heart between the ventricle and the bulbus arteriosus.

F. R. G. S. An abbreviation of Fellow of the

Royal Geographical Society.

P. R. H. S. An abbreviation (a) of Fellow of the Royal Historical Society; (b) of Fellow of

the Royal Horticultural Society.

Pri. An abbreviation of Friday.

friar, n.—Reformed friar, one of the members of a reformed branch of a monastic order; specifically [cap.], a member of the Observantines, a branch of the Franciscans dating from 119.

2. Same as friar's-cap. s-cowl, n.

friar's-cowl, n. 2. Same as friar's-cap.
frib (frib), n. [Imitative: cf. fribble.] A short,
loose piece of a fleece of wool.
F. B. I. B. A. An abbreviation of Fellow of the
Royal Institute of British Architects.
fricadillo (fri-ka-dil'ō), n. [Kitchen Sp. (1),
Sp. fricando, Sp. fricandeau: see fricandeau
and fricandelle.] A meat-ball or roll.
Friction draft-gear. See *draft-gear.—Kinetic friction,
the resistance which has to be overcome to maintain a sliding solid in uniform motion; aliding friction or slipping friction.—Molecular magnetic friction. See magnetic

*hysteresis.— Moment of friction, the product of the frictional force which resists rotation, as of a shaft in its bearing, into the distance between the axis of rotation and the surface at which the friction occurs.—Starting friction, static friction. See statical *friction.—Statical friction.—Statical friction and sometimes static friction.—Violation, here has a surface of the static friction.

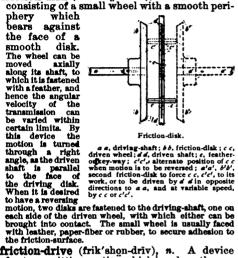
riction-brake, n.—Water friction-brake, a testing device in which the friction of a thin layer of water contained between a revolving and a stationary disk is used to absorb the power generated by the engine. Trans. Amer. Soc. Mech. Engin., XXIV. 740.

friction-calender (frik'shon-kal'en-der), n. A machine, consisting of three or more steel and machine, consisting of three or more steel and paper cylinders, operated in contact with one another and at different degrees of speed, for imparting a gloss to cotton, linen, and other fabrics in the process of finishing.

friction-composition (frik'shon-kom-pō-zish'-on), n. A mixture of substances capable of being readily ignited by moderate friction, as on the heads of ordinary matches, in artillery friction-primers, etc.

friction-primers, etc. friction-disk (frik'shon-disk), n. 1. A device

phery which bears against the face of a



friction-drive (frik'shon-driv), n. A device for transmitting motion which involves the use of a friction-clutch or friction-gears.

friction-hammer (frik'shon-ham'er), n. A drop-hammer which is lifted by friction-rollers acting on either a board or a strap. When the nip of the rollers is released, the hammer falls and delivers its blow.

friction-head (frik'shon-hed), n. In hydraul., the head lost in friction by an outflowing the nead lost in friction by an outnowing liquid. The friction-head is usually computed by the formula $4\mu \frac{L}{D} \cdot \frac{v^2}{2g}$, where D is the diameter of the efflux pipe, L its length, v the velocity of the outflowing liquid, μ the coefficient of skin-friction, and g the acceleration due to gravity. See head, 7. friction-hoist (frik'shon-hoist), n. A light hoist driven by the friction of the smoothly thread or gravity describes the friction of the smoothly

turned or grooved surfaces of pulleys or disks.
If the applied load is excessive some of the friction-surfaces slip and the danger of breaking is lessened.

riction-roller (frik'shon-rō'ler), n. 1. A roller in a roller-bearing. (a) One of a number of small rollers which revolve in a bearing and the inner portion of whose periphery forms a bearing for a shaft. (b) One of a number of conical rollers which run between two conical surfaces to form a non-frictional thrust-bear-

2. A roller of small diameter, used with others to form a wedged frictional contact between

to form a wedged frictional contact between a wheel and its shaft. This takes the place of a key and is used on drawing- and printing-presses to momentarily connect the driving-wheel to the crank-shaft.

friction-socket (frik'shon-sok'et), n. In drilling, a fishing-tool used for taking hold of a tool lost in the hole. Dialect Notes, II. vi.

friction-sprocket (frik'shon-sprok'et), n. A chain-sprocket having a friction-clutch for connecting it to or disconnecting it from the shaft at the will of the operator.

friction-wrench (frik'shon-rench), n. A wrench which is so made that it will turn a round or cylindrical object by friction. This is sometimes done by having the wrench made with a taper, either inside or outside, according to whether it is to fit over or into the piece to be turned.

Friday, n.—Good-Friday grass. See *grass. Friedländer's bacillus. See *bacillus. Friedreich's disease. Same as Friedreich's ataxia (which see, under ataxia).

ataxia (which see, under ataxia).

friend, n.—Lady's friend, an officer of the House of Commons, prior to the abolition of parliamentary divorces in 1857, whose duty it was, when a husband sued for divorce or prayed for the passage of an act to divorce him from his wife, to see that proper provision was made by the husband for the wife's support.

friendly, a. II. n.; pl. friendlies (-liz). One who is friendly or acts as a friend; specifically, a set in the first of the provider heating accurate who is not

native of a naturally hostile country who is not only not hostile, but who acts as a friend to a traveler, explorer, or the like.

Fries. An abbreviation (a) of Friesian; (b)

Frieslander (frez'lan-der), n. An inhabitant of Friesland.

friez, n., v. t., and a. A simplified spelling of

frieze², n.—Irish frieze, a heavy, shaggy woolen cloth made from long, strong wool, compactly fabricated and made from long, strong wool, compactly fabricated and very durable: specially identified with Irish manufac-

frieze-cutter (frēz'kut"er), n. A machine for cutting a molded surface along the edge of a board or strip.

frigate, n.—Jackass frigate, a vessel between a sloop of war and a frigate in character, which carried a whole tier of guns and had a light spar-deck over its battery. It also carried a couple of guns on the quarter-deck and one or more on the forecastle-deck.

one or more on the forecastle-deck.

fright, n.— Precordial fright, extreme anxiety, attended with a peculiar and distressing sensation over the region of the heart, probably due to a functional disorder of the sympathetic nervous system.

frigotherapy (frig/ō-ther'a-pi), n. [Irreg. < L. frigus (frigor-), cold, + Gr. θεραπεία, medical treatment.] Same as *crymotherapeutics.

frijolito (frē-hō-lē'tō), n. [Mex. Sp.] The

proper form of frigolito.

fril, v. and n. A simplified spelling of frill.

frill², n. 4. The shell of a kind of scallop.

frill2, n. 4. The shell of a kind of scallop.
fringe, n.—Alleghany fringe, the climbing fumitory,
Adlumia fungosa.—American fringe, the fringe-tree,
Chionauthus Virginica.—Haversian fringes. See
synovial folds, under synovial.—Herschel's fringes,
interference fringes observed at the line of separation
between the totally reflected and the ordinarily reflected
light which emerges from a prism placed upon a plane
glass or mirror.—Interference fringe. See interference, 5.—Purple fringe, the smoke-tree, Cotinus Cotinus.
Also called false and purple fringe-tree.—Synovial
fringes. See synovial folds, under synovial.—White
fringe. Same as Alleghany *fringe.
Same as Alleghany *fringe.
Tringe-bush (frinj'bush), n. Same as fringe-

fringe-bush (frinj'bush), n. Same as fringe-

fringe-cup (frinj'kup), n. The two-leaved bishop's-cap or miterwort, Mitella diphylla: so called from the fringe-like petals rising out

of a cup-shaped calyx.

fringe-flower (frinj flou'er), n. Any plant of
the genus Schizanthus, of Chilean origin, several species of which have been introduced into cultivation for the sake of their flowers. Though eultivation for the sake of their flowers. Though belonging to the Solanace, the corolla limb is more or less two-lipped and laciniate. Schizanthus pinnatus has pinnatisect leaves, and flowers variable in color, the lower ip usually violet or lilac, the upper one paler, with a yellow blotch at its base and spotted with violet or purple. Also called butterfty-flower. See Salpiglossides.

fringe-loom (frinj'lom), n. A loom so equipped

as to form the weft into long loops beyond the selvage.

fringe-moss (frinj'môs), n. Any moss of the genus Trichostomum.

fringe-tree, n.—False fringe-tree, the smoke-tree, Cotinus Cotinus.

frison (fri-zôn'), n. [F.] A heavy woolen [F.] A heavy woolen

cloth with a long, thick nap, originally made in Friesland.

rit-fly (frit'fli), n. A European fly, Oscinis frit, whose larva seriously damages growing wheat and other small grains.

Fritillaris, n., 1. In California, F. pluriflora is the pink, F. coccinea the scarlet, and F. liliacea the white fritillary. F. pudica, on the eastern slopes of the Sierras, has solitary yellow flowers. The bulbs of F. Camschalcensis were once a staple article of food among the aborigines of Kamchatka. For other species see *mission-bells and *stink-bells, Persan lily (under Persian) and toad-lily, 2.

*stink-bells, Pernan lily (under Persian) and toad-lily, 2.

fritillary, n.—Diana fritillary, an American nymphalid butterfly, Semnopsyche diana, occurring in the hilly country of the southern United States, and in the larval state feeding on violets. It is remarkable for the great difference in color of the two sexes, the male having the wings brown broadly banded with orange, while the wings of the female are black bordered with metallic blue.—Great spangled fritillary, Argynnis cybele, an American species which occurs in 'anada and the north-eastern United States. Its larve feed on the leaves of the violet.—Gulf fritillary, Agraulis vanillse, a species common in the southern United States and reaching as far north as southern New Jersey and Pennsylvania and west

common in the southern timed states and reaching as in-north as southern New Jersey and Pennsylvania and west to California. Its larve feed on passion-flower plants.— Meadow fritillary, Brenthis bellona, a small American species occurring in Canada, Colorado, and the northern

United States. Its larve feed on violet plants.—Silverbordered fritillary, Brenthis myrina, a small American species occurring throughout Canada and the northern United States. Its larve feed on violet plants.—Varies at the Rocky Mountains, more abundantly in the southern United States. Its larve feed on the passion-flower, portulates, violet, mandrake, stonecrop, and tick-trefoil. frizzing (friz'ing), n. 1. The act of producing a curled appearance.—2. A curly finish given to a heavily napped fabric.

F. B. Met. S. An abbreviation of Fellow of the Royal Meteorological Society.

F. B. M. S. An abbreviation of Fellow of the Royal Microscopical Society.

Frobenius's method. See *method.

frog1, n. 2. The presence of mucus on the vocal cords, causing hoarseness and an inclination to cough or hawk: usually called frog in the throat.—3. Aphthæ in children.—Catholic frog, a species of toad, Notaden bennetti, found in east-

vocal cords, causing hoarseness and an inclination to cough or hawk: usually called frog in the throat.—3. Aphthes in children.—Gatholic frog, a species of toad, Notaden bennett, found in eastern Australia. Its popular name is derived from the dark cross on its back. Also called Holy-Cross toad.—Cohnheim's frog. Same as sall *frog.—Frog in the throat. See *frog/1, 2.—Salt frog, a frog from whose vessels the blood has been drained away, its place being taken by a saline solution: used for physiological experiments. Also called Cohnheim's frog.

frog², n. 3. An attachment to the frame of a loom, against which an iron finger strikes

loom, against which an iron finger strikes, stopping the machine should the shuttle fail to make timely passage through the warp.—
4. In lumbering: (a) The junction of the two branches of a flume. (b) A timber placed at the mouth of a slide to direct the discharge of the logs.—Spring-rail frog, a railroad frog in which one of the four rails which form it is free to slide sidewise



Spring-rail Frog.

a. guide-rail; b. main-line service-rail; c. siding-rail; d. spring-rail frog, closed and in normal position; c. pivot on which it turns; f. spring controlling spring-rail frog; g. elevation showing position of rails on a line drawn between first and second tie: A. elevation showing position of rails on a line drawn between second and third

upon bearings laid upon the ties. In its normal position the free rail is pressed by a spring against the three fixed rails of the frog, closing the opening and making the linerail practically continuous. When a car passes to or from the siding its wheels press the free rail to one side and open the frog, the spring closing it after the last wheel has passed. See frog?, 2.—Trolley frog, a device for fastening together trolley wires at any point where the trolley wire branches, and properly guiding the trolley wheel along the trolley wire on the movement of the car over the track. Houston, Dict. Elect.

frog³, n. ³. In a carriage, an ornamental piece of wood covered with silk or worsted woven to match the carriage-fringe.—4. In a harness.

match the carriage-fringe.—4. In a harness, a pear-shaped ornament of patent leather, finished at the narrow end with a ring.

frog-boot (frog'böt), n. A piece of heavy felt shaped to fit around the frog of a horse's foot and to fill the space between the frog and the

frog-cheese (frog'chēz), n. The contents of

any immature puffball. frog-eye (frog'i), n. A disease which affects tobacco-leaves, producing numerous small white spots. It is attributed to a fungus, Cercospora Nicotianæ. See *lcaf-blight.

frog-eyed (frog'id), a. Affected by the disease called frog-eye.

frog-face (frog'fas), n. A deformity, caused by the presence of an intranasal tumor, in which the face assumes a fancied resemblance to that of a frog. Buck, Med. Handbook, IV.

frog-flower (frog'flou"er), n. Any plant of the

genus Ranunculus.
frog-grass, n. 2. The toad-rush (which see, under rush1).

under rush).

frog-leaf (frog'lef), n. The water-shield or water-target, Brasenia Schreberi.

frog-lily (frog'lil'i), n. The yellow pond-lily or spatter-dock, Nymphæa advena.

frog-motion (frog'mo"shon), n. A cam or other device which acts on a frog or catch.
frog-mug (frog'mug), n. An earthenware mug

containing a frog modeled in the bottom or on the side, which, as the contents were drunk, suddenly appeared, to frighten the drinker. frog-plant (frog plant), n. The orpine or live-for-ever, Sedum Telephium.

frog's-bladder (frogz'blad'er), n. Same as *frog-plant.

of view, lies in front of the curtain; the auditorium or audience part; hence, the audience itself: as, to be in the front. (b) Everybody engaged to work before the curtain.—11.

Milit., the entire system of defenses constructed along one side of the polygon inclosing the site to be fortified: as, a bastion or polygonal front.—12. The forehead-piece of a bridle, generally of leather with metal trimmings.—13. The exterior surface of a lock mortised into a door; the portion of a lock that is visible and through which the bolt passes; in a rim-lock, the end facing the doorframe.—14. In entom., practically the forehead: the part of the face between the eyes and of view, lies in front of the curtain; the audipasses; in a rim-lock, the end facing the door-frame.—14. In entom., practically the fore-head; the part of the face between the eyes and between the vertex and the clypeus.—Armored front, a false front used with a mortised lock as a temporary protection to the lock-front.—Astragal front, a lock-front having a molded (astragal) surface corresponding to the same type of door-molding.—Dry front, noting a microscopic objective which is separated by an air-gap from the object: in contradistinction to immersion lens.—Front of operations, the imaginary line connecting the front of the different columns or detachments of an army in active campaign.—Swing front, a device applied to a photographic camera which enables the objective to be placed at different angles to the axis of the camera.—To change front. See *change.

II. a. 3. In phonol., modified in utterance

II. a. 3. In phonol., modified in utterance by the configuration of the central portion of the front or upper side of the tongue.

Front vowels are rounded by the lips only.

H. Sweet, Eng. Sounds, p. 2.

Front matter, in printing, all the type-work before the text of a book. Title-page, dedication, table of contents, preface, etc., are rated as front matter.—Front office. See *office.

front, v. t. 5. In phonol., to pronounce with the front of the tongue, or as a 'front' sound.

See *front, II. a. 3.
frontad (fron'tad), a. [front + -ad3.] In an anterior direction. Buck, Med. Handbook. II.

3. Land that lies along a river

frontage, n. 3. Land that lies along a river or creek. [Australia.]
Prontal apron. Same as *apron. 6.—Frontal area the surface of the skull extending from the orbits to the coronal suture.—Frontal index, moraine. See *index. *moraine.—Frontal point, in authrop., the point where a line drawn inward from the higher outer part of the superciliary border of the frontal lobe intersects the mesial border of the cerebrum. Cunningham.—Frontal protuberance, Same as frontal conincue.—Frontal shield. (a) See frontal. (b) See *shield.
frontalis (fron-tā'lis), n. [NL.: see frontal.]
The anterior fleshy portion of the occipitofrontalis muscle.

frontalis muscle.

front-fall (frunt'fâl), n. The falling of the front of a house.

One front-fall of this kind in Fleet Street mained several persons.

Southey, Doctor. circ.

frontispiece (fron'tis-pes), v.t.; pret. and pp. frontispieced, ppr. frontispiecing. [frontispiece, n.] 1. To furnish with a frontispiece.

—2. To use as a frontispiece: as, to frontis-

piece a map. 6. The skin which covers the forehead of a mammal, particularly of a rum-

See *hinge. Frontonasal hinge, shield. **≠**shield.

fronto-orbital (fron'tō-ôr'bi-tal), a. Relating to the region of the forehead and orbit. Fronto-orbital sulcus. See **sulcus.

Frontoparietal shield. See **shield.

frontoparietal shield. See *shield. frontopontine (front-to-pon'tin), a. Relating to the frontal bone and the pons.—Frontopontine tract. See *tractl.
frontotemporal (fron-to-tem'po-ral), a. [L. frons (front-), forehead, + tempora, temples. + -all.] Relating to both frontal and temporal bones, or to the corresponding regions of the skull.

frontozygomatic (fron'to-zī-gō-mat'ik), a. [L. frons (front-), forehead, + E. zygomatic.]

Relating to the forehead and to the zygomatic arches.— Frontosygomatic index. Same as stephanozygomatic rindex. Topinard.
frontward (frunt wärd), adv. [front +

frontward leads," S. Lanier.

Men define a man,
The creature who stands front-ward to the stars.
The creature who looks inward to himself.

Mrs. Browning, Aurora Leigh, vii. 281.

frost, n. 6t. A spiked sole put on shoes to enable one to walk on ice without slipping.

able one to walk on 10e without slipping.

Great Rain and very Slippery; was fain to wear Frosts.

Judge Sewall (Jan. 19, 1717), in A. M. Earle's Costume
[of Colonial Times, p. 111.

Degrees of frost, temperatures expressed in degrees below the freezing-point. On the Fahrenheit scale the reading of the thermometer subtracted from 32° gives the temperature in degrees of frost: thus twenty degrees of frost correspond to -12° F.; forty degrees of frost to-8° F.

— Jack Frost, a nursery personification of frost, especially in connection with the frost traceries on the window-pane.

pane.

frost-bow (frôst'bō), n. A halo of white light fruendal (frô-en'dal), a. [L. fruendus, to be attending the sun in cold weather. The term is applied popularly and indiscriminately (1) to the white supplied popularly and indiscriminately (1) to the white strong of the fruendisc.]

fruendisc.

fruendisc. attending the sun in cold weather. The term is applied popularly and indiscriminately (1) to the white rainbow of 18° to 41° radius, produced by the action of minute globules of water (the colored rainbow due to large drops has a radius of 40° to 42° 30°); (2) to the white halos of 22° and especially of 46° radius, due to the action of ice-crystals.

frost-crack (frôst-krak), n. A wound in the trunk of a tree, caused by the splitting of the bark due to unequal shrinkage during a sudden frost

Frosted heart. Same as *iced heart. frost-figure (frost/fig/ur), n. The formation of ice-needles or arborescent figures on win-

of ice-needles or arborescent figures on window-panes or other surfaces by deposition of the frozen vapor of the atmosphere.

frost-flower (frôst'flou'er), n. 1. Any plant of the genus Aster: so called on account of the lateness of its blooming. — 2. One of the ice-crystals of a frost-plant. See *frost-plant. frost-hardy (frôst'hār'di), a. Capable of enduring a frost that is injurious to other plants or animals.

duced upon loose sediments by the action of frost upon their contained water.

frost-plant (frost 'plant), n. Any plant on the stems of which crystals of ice are formed during the first freezing weather of autumn. The best-known plant exhibiting this phenomenon is Helianthemum Canadense, but it has been observed in other species of that genus. (See frostweed.) The next most important frost-plant is the American dittany, Canita origanoides. Crystals of great beauty and perfection have been observed on this plant near Mount Vernon, Virginia. Less marked frost phenomena have been observed in a number of other plants, as Pluchea camphorata and P. fatida, the heliotrope, and some thistles.

frost-ridge (fröst'rij), n. A prominent ridge on the trunk of a tree, formed by the repeated opening and healing of a frost-crack.

frost-signal (fröst'sig'nal), n. A flag-signal indicating the approach of a frost that is likely to prove injurious to vegetation. It is a white

to prove injurious to vegetation. It is a white flag with a black center. See cold-wave signal, under signal.

frostweed-aster (frôst'wed-as'ter), n. Same as white heath-*aster.

frowzled (frowzld), a. Rumpled; tousled; disheveled; frowzy.

Prozen ball, in billiards, the cue-ball in fixed contact with one or more object-balls.

F. R. P. S. An abbreviation of Fellow of the

F. R. P. S. An abbreviation of Fellow of the Royal Photographic Society.
frs. An abbreviation of francs.
Frs. An abbreviation of Friesian or Friesic.
F. R. S. C. An abbreviation of Fellow of the Royal Society of Canada.
F. R. S. E. An abbreviation of Fellow of the Royal Society of Edinburgh.

merous concretions resembling grains of wheat. It is one form of contact-metamorphism produced in clay slates and phyllites. The concretions appear to be incipient stages in the formation of crystals of andalusite or similar minerals.

arches.—Frontosygomans.

zygomatic *index. Topinard.
frontward (frunt'ward), adv. [front +
-ward.] Toward the front: as, a "road that
frontward leads," S. Lanier.

Men define a man,

-all.] Of or pertaining to fruit-culture.

fructiform (fruk'ti-fòrm), a. [L. fructus, fruit,
+ forma, form.] Of the nature of or having the
form of fruit: as, fructiform productions.

fructivorous (fruk-tiv'ō-rus), a. [L. fructus,
fruit, + vorare, eat.] That feeds on fruit;
fruit-eating: as, a fructivorous bird.

fructosuria (fruk-tō-sū'ri-ā), n. [NL. fructus, fruit, + -ose + Gr. oxoov, urine.] The presence of fruit-sugar in the urine when voided. fructule (fruk'-tūl), n. [NL. *fructulus, dim. of fructus, fruit.] One of the carpels or component fruits of a compound or aggregate fruit.

fruendive (frö-en'div), a. [L. fruendus, to be enjoyed, + -ive.] Reserved for the satisfaction of desires: as, fruendive wealth. C. H. Chase, Prin. of Econ., p. 15.
frugalism (frö'gal-izm), n. [frugal + -ism.]
A conscious cultivation, defense, and advocated theift

cacy of thrift and prudence by many persons or by a class; a kind of cult, distinguished from the personal habit of frugality.

frugalist (frö'gal-ist), n. [frugal +-ist.] One who accepts the puritan creed and practice of *frugalism (which see).

Given the conditions of climate, drink, and disease, the thoughtful, cool-blooded, home loving frugalist was bound to outlive in the industrial masses the careless, roistering sensualist.

E. Ross, Social Control, p. 34.

fruit, n.—Ballistic, catapult fruit. See *ballistic, *catapult.—Confluent fruit, a compound fruit.—Fruit fallen, the produce of any possession detached therefrom and capable of being enjoyed by itself. Thus a next presentation, when a vacancy has occurred, is a fruit fallen from the advowson. Wharton.

or animals.

frost-hole (frôst'hôl), n. A low-lying region, as in the Thuringian forests, in which frost is especially likely to occur; an ice-cave.

frost-itch (frôst'ich), n. Same as pruritus hiemalis (which see, under pruritus).

frost-lamp (frôst'lamp), n. A lamp burned beneath the oil-chamber of a lighthouse lamp during cold weather, to prevent the oil of the latter from congealing.

frost-mark (frôst'mārk), n. In geol., the peculiar ring-like or hummocky surface produced upon loose sediments by the action of frost upon their contained water.

and capable of being enjoyed by itself. Thus a next presentation, wheaton.

fruit, v. II. trans. To bring into fruit under cultivation.

Trees of it, obtained under the name "Shiro Smomo," Yearbook U. S. Dept. Agr., 1901, p. 386.

fruitarian (frö-tā'ri-an), a. and n. [fruit+-arian. The proper type would be fructuarian.]

I. a. Of or pertaining to fruits; consisting solely of fruits and nuts, as a diet.

One of the chief objects of the series of experiments was to furnish data as to the value of nuts are relied on in the

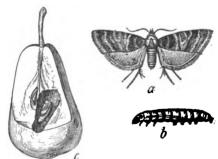
One of the chief objects of the series of experiments was to furnish data as to the value of nuts as food. Fruits contain little protein, and nuts are relied on in the fruitarian plan of eating to balance the ration.

Sci. Amer., Oct. 10, 1903, p. 255.

II. n. One who holds the theory that fruits and nuts constitute the only proper food for man.

fruit-beetle (fröt'be'tl), n. A beetle which infests fruit.—Apple fruit-beetle, Doticus pestilens, an Australian beetle which damages the fruit of the apple, and which is liable to be introduced into the United States

fruit-borer (fröt'bor'er), n. An insect which bores into fruit. — Pear fruit-borer, a Japanese



Pear Fruit-borer (Nephopteryx rubrizonella).

a, moth; b, larva; c, damaged pear with pupa. a, b, natural size; c, reduced.

Royal Society of Edinburgh.

F. B. S. L. An abbreviation (a) of Fellow of the Royal Society (London).

F. B. S. S. An abbreviation of Fellow of the Royal Society (London).

F. B. S. S. An abbreviation of Fellow of the Royal Statistical Society.

F. B. S. S. A. An abbreviation of Fellow of the Royal Statistical Society of Arts.

Fruchtschiefer (fröcht'shē'fer), n. [G. frucht, grain, + schiefer, schist] In petrog., a thinly laminated fine-grained schist containing nu-

modest colors and wide distribution, which feeds on ripe fruit and Indian corn.—Pear fruit-chafer. Same as brown *fruit-chafer.

7 Same as fruiterer, n. 2. Same as fruiter.

7 Same as fruiter.

8 Same as fruiter.

9 Same as fr

cingulata, which lays its eggs on cherries, in which its larve develop.

fruit-garden (fröt'gär'dn), n. A garden devoted to the growing of fruit.

fruit-maggot (fröt'mag'ot), n. A maggot which infests fruit.—Cherry fruit-maggot, the larva of a trypetid fly, Rhagoletis cingulata, which infests the fruit of the cherry.

fruit-mill (fröt'mil), n. A fruit-press.
fruit-separator (fröt'sep'a-rā-tor), n. A machine for sorting fruits according to size.
fruit-stall (fröt'stäl), n. A stall in a market or public place where fruit is sold.
Fruit-tree bark-beetle. See *bark-beetle.—Fruit-tree leaf-roller. See *leaf-roller.

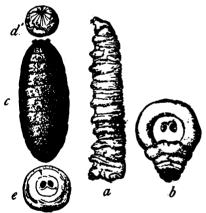
tree leaf-roller. See *leaf-roller.

fruit-worm, n.— Granberry fruit-worm, the larva of a phycitid moth, *Mineola vaccinii,* which lays its eggs on the young fruit of the cranberry: the larva enter the berries and eat out the seed-chambers, a single larva sometimes destroying four berries.—Currant fruit-worm, the larva of an American geometrid moth, *Tephroclystis interruptofasciata. It feeds on both the fruit and the foliage of the currant, and pupates between folded leaves.—Green-fruit worm, the larva of any one of several American noctuid moths, notably of *Xylima antennata,* which feeds on the foliage and young fruit of the apple, pear, peach, and strawberry.—Morelos orange fruit-worm, the larva of a Central American trypetid fly, *Trypeta ludens.* which lays its eggs on young citrus



forelos Orange Fruit-worm (Trypeta ludens). Adult fly. Female. Enlarged. (From "Insect Life.")

fruits, its larve feeding on the pulp. It is common in parts of Mexico, and derives its name from the Mexican state Morelos. Its accidental introduction into the



Morelos Orange Fruit-worm (Trypeta ludens). a, larva; b, anal segment; c, puparium; d, head; e, anal segment. a and e enlarged; b, d, and e still more enlarged. (From "Insect Life.")

southern United States, and especially into California is greatly feared.—Peach fruit-worm, the larva of a Japanese tineid moth allied to Grapholitha.—Raspberry fruit-worm, an American dermestid beetle Byturus unicolor, whose small white larva is often found on the inside of red raspberries after they are picked.

frunt, n., a., and v. A simplified spelling of

front.

frustrate, a. II. n. A weak contraction of the ventricle of the heart, the impulse of which is imperceptible at the wrist, giving the impulse of the impulse of which is imperceptible at the wrist, giving the impulse of the pression of intermittent pulsations. Buck, Med. Handbook, IV. 599.

Handbook, IV. 599.
frustulation (frus-tū-lā'shon), n. [frustule + -ation.] A method of non-sexual reproduction in Cnidaria It consists in the abstriction of small portions from lateral branches which bear no hydrauths. These portions, except for the absence of clia, resemble planule, becoming attached and giving rise to new colonies. Allman.
fruitgetum (frk. tipe frum)

nies. Allman.
fruticetum (frö-ti-sē'tum), n.; pl. fruticeta
(-tā). [NL., < L. frutex (frutic-), shrub, +-etum.]
A collection of living shrubs, usually for scientific exhibition; a scientific shrubbery.

fry¹, n.—Lamb's fries, the testicles of the lamb, prepared for eating. Called also mountain-oyster.

fry², n. 3. Any small edible fishes, as those of the family Engravidæ, the anchovies, and certain fishes of the family Clupeidæ, as the sardines, and of the family Atherinidæ.—4. The roe of fishes, especially that of such fishes as are used for food.

are used for food.

Prying-pan brand, a large brand used by Australian cattle-stealers to cover and thus obliterate the brand of the owner of the stolen cattle.

f. s. An abbreviation of foot-second.

f. s. An abbreviation of foot-second.
F. S. A. (b) An abbreviation of Fellow of the Society of Arts.
F. S. I. An abbreviation (a) of Fellow of Sanitary Institute; (b) of Fellow of Surveyors' Institution; (c) of Free Sons of Israel.
F. S. S. An abbreviation of Fellow of the Statistical Society.
F. S. S. An abbreviation of Fellow of the

F. S. Sc. A. An abbreviation of Fellow of the Society of Science and Art (London).
F. T. C. D. An abbreviation of Fellow of

Trinity College (Dublin).

The first college

fub3 (fub), n. The lowest quality of wool taken

from a fleece.

fuchi (fö'chē), n. [Jap.] The ring into which
the base of the handle of a Japanese sword fits. The two principal parts of the hilt are the fuchi and kashira.

the fuchi and kashira. Tuchsia, Zauschneria Californica. California fuchsia, Zauschneria Californica. Called balsamea by the Spanish Californians, who use it as a vulnerary. See Zauschneria.—Native fuchsia, in Australasia, any one of several species of native plants. (a) In Australia and Tasmania, species of the genus Mazeutozeron, belonging to the rue family, especially M. speciosum. (b) In Queensland, a shrub of the family Myoporacese, Pholidia maculata. (c) In New Zealand, the kotukutuku, Fuchsia excorticata. See *kotukutuku, *konini, and *tookytook.

fuchsia-tree (fū'shiä-trē), n. The kotukutuku, Fuchsia excorticata. See *kotukutuku.

fuchsin, n.—Acid fuchsin. See *acid-fuchsin.— Fuchsin bodies, minute rounded hyaline bodies, staining readily in fuchsin solution, found in certain malignant tumors.—New fuchsin. Same as new *magenta.

nant tumors.—New fuchsin. Same as new **mayerman*. The fuchsinophil (fök-sin'o-fil), a. and n. [fuchsin + Gr. \$\phi i \phi o_r\), loving.] I. a. Staining readily in the presence of fuchsin dye: said of certain fuel of the function of the binding-material and molded into blocks or briquets.

fuel-oil (fū'el-oil), n. Oil which is used as fuel either in an internal-combustion engine fuel oil to derive from crude petroleum.

II. n. A leucocyte which has a selective action for fuchsin stain.

fuchsinophilic (fök-sin-ō-fil'ik), a. [
ophil + -ic.] Same as *fuchsinophil.
fuchsinophilous (fök-si-nof'i-lus), a.

as *fuchsinophil.

as *fuchsone (fök'sön), n. [G. fuchson.] A name suggested for diphenylquinomethane, $(C_0H_5)_2$ C: C_0H_4O . An important group of dyes is derived from this compound, and a system of nomenclature was based

this compound, and a system on the name.
fucose (fū'kōs), n. [L. fucus, seaweed, + -ose.]
A crystalline sugar, C₆H₁₂O₅, obtained by
heating seaweeds with dilute sulphuric acid.
fuddah (fud'8), n. Same as *fadda.
fuddah (fud'8), n. An old Eng-

fuddah (fud's), n. Same as *fadda. fuddling-cup (fud'ling-kup), n. An old Eng-



Fuddling-cup

lish earthenware cup made of several receptacles molded together and communicating one with another. To empty one it was necessary to empty all.

fudge, v. i. 2. In printing, to make use of improper materials or methods to produce a needed result with greater speed.

fudge, n. 2. In newspaper parlance, matter of supposed importance, as the latest sporting news or sensational stuff, which comes to hand too late to find a place in the plates fulaari (fö-lä-ä'ri), n. [New Guinea.] One before going to press, and is inserted in a special place by cutting the plates. See *fudge-lates of supposed in the plates of several masked executive officers in each special place by cutting the plates. See *fudge-lates of supposed in the plates of several masked executive officers in each village of British New Guinea, who, in accordance with parties question are charged with box.—3. In printing, an unworkmanlike practice.—4. A kind of home-made candy composed of milk, sugar, butter, and chocolate,

boiled together, flavored with vanilla, and, when nearly cool, poured into a rectangular pan and cut into squares: more fully designated to the cool of the cool o nated chocolate-fudge. When chopped walnuts form an ingredient it is known as nut-fudge. The name alludes to the hasty amateur manufacture.

fudge-box (fuj'boks), n. The space on the front page of a newspaper cut out, or arranged to be cut out, if need be, to receive the matter called 'fudge,' that has come in while the forms are going through the pages. the forms are going through the press.

fudge-mold (fuj'möld), n. In printing, a mold constructed to cast a taper- or wedge-shaped linotype designed to form part or the whole of a circle.

fudge-slug (fuj'slug), n. In printing, a taper-or wedge-shaped slug designed to form part or the whole of a circle.

fudgy (fuj'i), a. [fudge + -y1.] Awkward; bungling, or showing the results of bungling. TU. S.1

Dungling, or showing the results of bungling.

[U. S.]

Fuel ratio, the amount of heating-capacity in a fuel as compared with another fuel taken as a standard. Every coal has a capacity to raise a certain number of pounds of water one degree Fahrenheit for each pound burned: the ratio, experimentally determined, of this heating-capacity or calorific power to that of a pound of pure carbon is the fuel ratio of that coal.—Gaseous fuel, fuel in a gaseous state, which of late years has come to be more and more extensively used. It is chiefly represented by the 'natural gas' of petroleum regions, the waste combustible gases escaping from iron-smelting furnaces, and 'generator' gas specially made from coal or other solid forms of fuel. Among the advantages attending the use of gaseous fuel are the absence of sah, the high temperature attainable by application of the 'regenerative' principle, the easy transference for short distances through pipes or flues, and the easy control of consumption. On the other hand, limitations are placed on the use of such fuel by its bulkiness, and the consequent restriction of storage and of transport to any great distance.—Liquid fuel, fuel in a liquid state, as crude petroleum or the more or less purified hydrocarbon oils derived from it. Great importance attaches to its use under certain conditions. Among the chief advantages are the freedom from sah, the very high heat-producing value, the capability of storage without any waste of space and in tanks of any shape, the ready transference through pipes, and the easy control of consumption. Use of such fuel has been adopted to a greater or less extent in war-ships, pleasure-craft such as naphtha-launches, and automobiles or motor-cars. For the last-named purpose alcohol has been to some extent substituted for petroleum products.—Patent fuel, a trade-name for coal-dust or coke-dust incorporated with pitch or other binding-material and molded into blocks or briquets.

fuel-oil (fu'el-oil), n. Oil which is used as fuel either in an inter

or in a furnace. It is derived from crude petroleum by separating out the naphtha and kerosene by distilla-tion, and by abstracting part of the lubricating-oil.

fuel-value (fu'el-val'u), n. The amount of heat which may be furnished to the body by oxidation of any given article of diet.

By fuel-value is here meant the total energy which a given substance can yield the body; in other words, it is the heat of combustion of that part of the food which is capable of oxidation within the body.

Energy. Brit., XXVII. 444.

fugal² (fū'gal), n. [(centri) fugal.] A local abbreviation for centrifugal: applied in Aus-

ject: opposed to double fuguic (which see, under fugue (a)).
fuji (fö'jē), n. [Jap.] The Japanese wisteria,
Kraunhia Japonica. See Wisteria, 1.
Fukurokujiu (fū-kö-rō'kö-jyö), n. [SinicoJapanese: fuku (< Chin. fu), happiness, + roku
(< Chin. lao), venerable, + jiu (< Chin. sheu,
shou), long life.] The Japanese god of longevity (one of the seven gods of happiness),
represented with an abnormal dome-shaped
hand and long heard carrying a neach in his head and long beard, carrying a peach in his hand, and sometimes accompanied by a deer, another of his attributes.

dance with native custom, are charged with seeing that the taboo is observed when it has been placed by the taboo-chief on cocoanuts, areca-nuts, etc., when a failure of crops is threatened.

fulcral (ful'kral), a. Of or pertaining to a fulcrum; specifically, in ichth., pertaining to the processes on the base of fin-spines and rave by

thoracic pleura, which divides them into proximal and distal portions.

fulcrumage (ful'krum-āj), n. The turning about a point, as a fulcrum.
fulgorid (ful'gō-rid), n. and a. I. n. A member of the Fulgoridæ.
II. a. Of or belonging to the family Fulcrum.

oridæ.

ulgural (ful'gū-ral), a. [L. fulguralis, {fulgur, lightning.] Of or pertaining to lightning: as. fulgural superstition.—Fulgural science, divina-

tion by lightning.

fulgurant, a. 2. In pathol., with lightning-like rapidity: an epithet applied to the pains of locomotor ataxia, because of the suddenness of their appearance.

fulgurating (ful'gū-rā-ting), p. a. Darting or shooting in the manner of lightning; lancinating: as, fulgurating pains.
fulgurator (ful'gū-rā-tor), n. In phys., a device used in the study

phys., a device used in the study of the spark-spectra of substances. It consists of a vertical glass tube with platinum wires, a and b, which afford a spark-gap. The terminal b is surrounded with a capillary tube to the top of which the liquid to be vaporized by the spark rises, covering the platinum wire. The spark passes between the surface of this liquid and the upper terminal. fulgurite, n. 2. An explosive of the nitroglycerin class, used for blasting: similar to dynamite, but

blasting: similar to dynamite, but the nature of the dope has not been disclosed by the inventor.

been disclosed by the inventor.

full¹, a.— Full house. (b) In poker, same as full¹, a. — Full line. (b) In printing, a line of composed types of letters only that fill the measure of the page or column. A full that consists partly of letters and partly of quadrats is known as a break line.— Full up of, full to saliety; 'sick and tired of': as, he was full up of the place. [Australia.]— Keep full for stays! an order to the wheelsman to keep a good full on the vessel so as to accelerate her speed a little before going in stays in order that she may come about quickly.— Keep her full! an order to keep the sails full of wind.

full1, n. 4. A ridge of gravel formed back of a beach by storm-waves. [Local, Eng.]

The wash of the waves, owing to percolation, piles up the pebbles thrown forward by the breaker, forming a bank, or ridge, or Full, and this is the action proper to the sea on a shore of shingle.

Geog. Jour. (R. G. S.), XL 536.

To hold a good full, naut., to steer so as to keep the sails well belied out by the wind; to keep the vessel of sufficiently from the wind to fill her sails.

studently from the wind to find a same state.

full¹, adv. 5. In organ-playing, with all the stops drawn; with the whole power of the instrument: as, the piece was played full.

full-arc (ful'ark), n. An electric arc supplied with 9.5-10 amperes of current and consuming

full-fledged (ful'flejd), a. Fully developed or matured; fully organized and ready for action or use: as, a full-fledged town. full-jeweled (ful'jö'eld), a. Said of a watch when each of the pivot-holes coutains a jewel.

made of a ruby, garnet, or some other gem.
fullonian (fu-lo'-niau), n. [L. fullo(n-), a
fuller.] Same as *fullors' earth (b).
full-pitch (ful'pich), n. In cricket, a ball

bowled so as to reach the batsman before it touches the ground; a full-toss.

full-rigged (ful'rigd), a. Fully rigged; with all the sails set that properly belong to the class of vessel named or referred to: as, a full-rigged ship. See ship.

pitch.

fulminate, n.— Mercuric fulminate, a valuable explosive agent, made by the addition of alcohol to a warm solution of mercury in nitric acid. It forms small yellowish-white crystals, having the composition HgC₂N₂O₂, very readily exploded by slight heating, friction, or a blow. It is too violent in its effects and too expensive to be used as a principal or primary explosive, but it is largely used in detonators and percussion-caps, to bring about the explosion of other materials, such as guncotton and dynamite. Also known as fulminating mercury or simply as fulminate.

fulminuric (ful-mi-nū'rik). a. Derived from

simply as fulminate.

fulminuric (ful-mi-nū'rik), a. Derived from fulminic and uric acids.—Fulminuric acids a colorless solid, C₃H₃N₃O₃, isomeric with cyanuric acid. It explodes at 145°C. Sometimes called isocyanuric acid. fulsum, a. A simplified spelling of fulsome. fulvo-hyaline (ful'vō-hī'a-lin), a. [L. fulvus, yellow, + Gr. νάλνος, of glass: see hyaline.] Transparent but dark yellowish in color. fulvo-rufous (ful'vō-rö'fus), a. [L. fulvus, yellow, + rufus, red.] Dark yellowish red. fuma (fū'ma), n. [A back-formation from L. fumare, subject to smoke or vapor, < fumus, smoke, vapor: see fume.] A trade-name for the vapor of carbon disulphid when applied to plants as an insecticide.

plants as an insecticide.

funagine (fū'ma-jin), n. [NL. *funago (funagin-), < L. fumus, smoke, + -ago (-agin-), as in imago, image, with a sense suggested by ærugo, rust.] The black or brown coating upon the leaves and stems of plants formed by

the mycelium of various fungi.

funago (fū-mā'gō), n. [NL. (Persoon, 1818), \(\) L. funus, smoke, +-ago as in imago, image; used in NL. in a special sense: see imago.]

A name which has been applied to the conidial condition of species of Capnodium.

funarina (fū'ma-rin), n. [Funaria +-ine²]

fumarine (fū'ma-rin), n. [Fumaria + -ine².]
A bitter alkaloid, C₂₁H₁₉O₄N, contained in Fumaria officinalis. It crystallizes in prisms and is optically active.

and is optically active.

fumarole, n. Sainte-Claire Deville distinguishes the following: (a) Dry fumaroles, which are very hot and yield volatilized anhydrous (for example, ferric) chlorids.

(b) Acid fumaroles, which yield sulphurous and hydrochloric fumes and steam. (c) Alkaline fumaroles, which yield sal ammoniac and steam at approximately 212° F. (d) Cold fumaroles, below 212° F., which yield steam, carbon dioxid, sulphureted hydrogen, etc. Annales de Chimie et de Physique, LIL 19.

Tumarolie (filme. pol/tik) a. Charactorized by

fumarolic (fū-mā-rol'ik), a. Characterized by, pertaining to, or due to the action of fumaroles.

The placing of various ore deposits of many well-known districts in such classes as fumarolic solfataric, pneumatolytic, etc., without giving evidence for such a distribution, seemed to the speaker to be premature.

Science, April 3, 1903, p. 543.

fumatorium (fū-ma-tō'ri-um), n.; pl. fumatoria (-ā). [NL.: see *fumatory2, fumitory2, n.] A fumatory; specifically, in recent use, an airtight structure in which small trees or other plants are fumigated to destroy scale or other insects.

fumatory2 (fū'ma-tō-ri), n. [NL. fumatorium (recent use), \(\) L. fumare, pp. fumatus, smoke: see fume, v. \) Same as fumitory\(^2\) (which is a less correct form).

fumba (föm'bä), n. [Also mfumba; < Swahili fumba (tom ba), n. [Also myumoa; (Swanni fumba, with noun-prefix mfumba, connected with fumba, close, shut.] A sleeping-bag of matting used by the natives in the lower Zambesi valley.

fumble, n. 2. In base-ball, foot-ball, and other

fumble, n. games, an act of fumbling.

The world's a well strung fidle, mans tongue the quill,
That fills the world with fumble for want of skill.

N. Ward, Simple Cobler, p. 87.

fume, n.— Lead fume. See ★lead2.

fume, v. i.—Fuming nitric acid, an impure nitric acid containing other oxids of nitrogen; a reddish-yellow fluid giving off acrid fumes of the same color.—Fuming oil of vitriol. Same as Nordhausen acid or fuming sulphuric acid (which see, under sulphuric acid).

fumé (fū-mā'), a. [F., pp. of fumer, smoke.]

1. Smoked: as, verre fumé ('smoked glass').

2. Smoky; having a smoky tint: as, quartz fumé.—3. That has been subjected to the profumé.—3. That has been subjected to the process of fuming, as oak, in order to obtain an

antique appearance.

fume-chamber (fum'chām'ber), n. A box or chamber connected with a ventilating shaft or exhaust, used in laboratories to carry off offen-

sive fumes.

fumerole (fū'me-rōl), n. See fumarole. fumigant, a. H. n. A substance used in fumigation. Jour. Soc. Chem. Industry, XIII.

fumigate, v. t. 4. To darken the color of fundal placenta. See *placenta. See *placenta. See *placenta. See *placenta. The fungus-body (fung'gus-bod'i), n. The large smoke. The process is also known as fuming. conception has been introduced by German thinkers in compound structure of the higher fungi: dis-

full-toss (ful'tos), n. In oricket, same as *fullpitch.

fulminate, n.— Mercuric fulminate, a valuable explosive agent, made by the addition of alcohol to a warm of measure in niting add it. forms small velicities and the form of the second of the seco of ammonia, in order to give it an appearance of age.—5. In photog., the process of exposing albuminized paper to the fumes of ammonia, which makes the paper print a trifle more quickly and gives it a purple tone.

fumitory! n.—Bulbous fumitory. (a) The hollowroot or moschatel, Adoza Moschatellina. (b) The hollowwort, Capnoides cavum.
fumivorous (fū-miv'ō-rus), a. [L. fumus,
smoke, + vorare, devour.] Smoke-consuming. It [crematory apparatus] . . is fumivorous, [and] mits no smell.

Buck, Med. Handbook, III. 381. emits no smell.

funa (fö'nä), n. [Jap. funa.] The Japanese name of the common goldfish, Carassius aura-

tus, found in the rivers of Japan.

funambulism (fū-nam'bū-lizm), n. [L. funambul-us, a rope-walker, +-ism.] The art of tight-

bul-us, a rope-walker, +-ism.] The art of tightrope walking; rope-walking.

Funariaces (fū-nā-ri-ā'sē-ē), n. pl. [NL., <
Funaria + -aceæ.] A family of mosses of the
order Bryales, typified by the genus Funaria.
They are characterized by the pear-shaped capsule provided with a neck and often raised on a long stalk.
The family includes 12 genera, of which Funaria and
Physcomitrium are the most important.

viced with a neck and often raised on a long stalk. The family includes 12 genera, of which Funaria and Physcomitrium are the most important.

function, m.—Automorphic function. See *automorphic.—Characteristic function, in thermodynamics, a function of the generalized coordinates, the generalized forces, the temperature, energy, and entropy of a system in equilibrium, in terms of which all the properties of the system can be expressed.—Chromatic function. See *compensation.—Decreasing function, a function which decreases when its independent variable is increased.—Diaphoric function, a function of the differences of specified arguments.—Differential of a function. See *deliveration.—Emmit of an analytic function. See *deleventia.—Emmit of an analytic function. See *deleventia.—Emmit of an analytic function.—Rquipotential function, a function by means of which equality of potential is specified.—Practional function, a function in which the variable occurs in the denominator: as, a/z, or b/z².—Function of postion on a Riemann's surface, a function of a function.—Galton's function. See ancestral *sinheritance.—G-function.

Same as Green's */unction.—Galton's function. (a) A potential function which at all points of a contour is equal to log1/r, where r is the radius vector of the point from a fixed origin. (b) A function differing from that just defined by log1/r.—Group of a function. See *group.—Hyperbolic function. (c) A function bearing a relation to a rectangular (equilateral) hyperbola similar to that of the ordinary circular functions are not so named on account of any analogy with what are termed elliptic functions. See the extract.

The elliptic integrals, and thence the elliptic functions, derive their name from the early attempts of mathemati-

The elliptic integrals, and thence the elliptic functions, derive their name from the early attempts of mathematicians at the rectification of the ellipse. . . To a certain extent this is a disadvantage; . . because we employ the name hyperbolic function to denote coah u, sinh u, etc., by analogy with which the elliptic functions would be merely the circular functions cos ϕ , sin ϕ , etc.

Greenhill, Elliptic Functions, p. 175.

Increasing function, a function which increases when its independent variable is increased. Infinity of a function. See *minity.—Inverse function or inverse of a function. When y=f(x), then x equals some function of y, say $x=\phi(y)$. These functions, f and ϕ , are then said to be inverse functions or anti-functions of one another. The sign of this inversion is minus one written as an index to the functional symbol: thus, $f=\phi-1$ and $\phi=f-1$, so that x=f-1 (y) and $y=\phi-1$ (x).—Kleinian function, an automorphic function which remains unchanged by the transformations of a Kleinian group.—Idleptranched functions, functions of one and the same Riemann's surface.—Monodromy of a function. See monodromic function, under monodromic.—Octahedron function, a sextic function whose fourth derivative is identically zero, the canonical form being xy (x^4-y^4)— y^4 -function, a function denoted by y, pronounced p, y.

 $gu = \frac{1}{u^2} + \sum' \left[\frac{1}{(u-w)^2} - \frac{1}{w^2} \right],$

where Σ' denotes a sum extended over all values of w except the value w=0.—Singular point of a function. See $\star point1$.—Tesseral function, the function called by Heine and Todhunter associated function of the first kind; a function converted into a tesseral harmonic by the factor cose ϕ or sin ϕ .—Verb function an operator containing a purely symbolic letter β to denote the base of a given operation, so that when this verb function operates on a subject x, it produces the result obtained by writing x for β in the verb function: thus, using square brackets to inclose each separate operation, $((c + \beta)^2] x = (c + x)^2$, whereas $[c + \beta]^2 x = [c + \beta] (c + x) = c + (c + x) = 2c + x$.—Zero of a function. See $\star x = c$.
Functional adaptation. hypertrophy. mam-

Functional adaptation, hypertrophy, memory, murmur, paralysis, psychology, selection. See *adaptation, etc.

function-theory (fungk'shon-the ori), n. Same as theory of functions (which see, under

rungus-body
order to support the doctrine of Leibnitz that space and
motion are purely relative, as against the doctrine of
Newton that space is a thing. The difficulty in the Leibnitzian doctrine is that rotational velocity is not relative
unless some peculiar hypothesis is introduced to account
for the phenomena. These hypotheses have usually consisted in supposing the existence of some motionless thing
to which all motion is relative; but no good reason has
ever been given for rejecting Newton's view that space
itself is this motionless thing.—Fundamental gneiss,
Same as *basement complex.—Fundamental length,
plate or zone. See *length, *plate.

Fundad contant. See *kength, *plate.

Funded content. See *content8.
fundicolar (fun-dik'ō-lār), a. [L. fundus, bottom, + colere, inhabit, +-ar8.] Inhabiting of living upon the sea-bottom: as, fundicolar mol

Professor Pelseneer enumerates a few Magellanic species separately, and divides the Antarctic species into littoral, of which there are three species; fundicolar, of which there are twenty-nine, and pelagic, of which there are five.

Science, April 22, 1904, p. 658.

+ forma, form.] Having the form of a sling

fundiform (fun'di-fôrm), a. [L. funda, a sling, + forma, form.] Having the form of a sling or a loop.

funeral-director (fū'ne-ral-di-rek"tor), n. An undertaker. [U. S.]

Fungi, n. pl. Recent investigations have added much to the knowledge of the life-histories and relationships of this large group of plants. The term, as commonly used to include the slime-molds and bacteria as well as the fungi proper, does not signify a natural group. The present tendency is to restrict its use to the Eunycetes (true fungi). The cytological studies of Harper and others confirm the opinion that the rusts (Uredinales) are most closely related to the Basidiomycetes, while the researches of Thaxter have shown the existence of what appears to be a new order, the Myzobacteriales, showing characters of both Myzomycetes and bacteria. Various recent systematic arrangements of the fungi have been proposed, notably those of Bereield, Schröter, Saccardo, and Engler and Pranti. These classifications differ chiefly in the terminology used, the relative rank given to different groups, and the position assigned to certain orders of more or less doubtful relationship. The sporological system of Saccardo, used in his "Sylloge Fungorum" as a basis for the division of the larger groups of the Pyrenomycetes, Discomycetes, and Fungi Imperfecti, is very convenient but artificial. The following arrangement is based upon that given in Engler's "Syllabus." The termination of the ordinal names is that at present adopted and has been used by Underwood. The lichens have been added to the classes of fungi to which they belong. Class I. Myzogyastrales, Myzobacteriales. Class III. Schizomycetes; orders Euchomophthorales, Myzogyastrales, Mysobacteriales. Class III. Schizomycetes; true fungi): Class III. Archimycetes: order Chytridiales. Class VI. Archimycetes: order Protomycetales, Subclass III. Schizomycetes, Periodes, Hypocreales, Dothideales, Apprailes, Periodes, Hebreilales, Hypocreales, Dothideales, Reparales, Pungic and III. Basidiomycetes: subclass Pr

Angicidal(fun-ji-si'dal), a. [fungicide + -all.]
Relating to fungicides or to the killing of fungus or fungi; having the property of de-

stroying fungous or fungoid growths.

fungivore (fun'ji-vōr), n. [F. *fungivore,* < L.
fungus, fungus, + vorare, devour.] A tradename for a crude preparation containing iron sulphate, used at one time in France as a fungicide application to plants, as, for example, to vines attacked by Oidium.

ample, to vines attacked by Chairm.
fungose (fung'gōs), a. Same as fungous.
fungus, n.—Algal fungus. See *algal.—Black
fungus, a name applied to any member of the Pyrenomycetales.—Fairy-ring fungus, the mushroom Marasmius Oreades, which forms circles or parts of circles in
lawns and pastures, popularly termed fairy rings. See
fairy ring, under fairy.—Fungus cancer. Same as
fungus hematodes.—Fungus cerebri, protrusion of the
brain-substance through a fracture of the skull. Also
called cerebral hernid.—Fungus-digesting plant. See
*plant!.—Grasshopper-disease fungus, a species of
Sporotrichum which attacks grasshoppers and causes
their death. This fungus has been distributed for the
purpose of checking the ravages of grasshoppers in certain
parts of the United States.—Oak-root fungus. Same
as oak-seedling *disease.—Pine-cone fungus, the fungus Accidium strobilinum, occurring on the scales of the
cones of pine.—Pine-leaf fungus, the fungus Herpotrichia nsyra, occurring on the leaves and branches of the
pine and juniper. See *Herpotrichia.—Shot-hole fungus, any fungus which attacks the leaves of certain trees,
particularly cherries and plums, causing minute purple
or brown spots, which later loosen and drop out. Cylindrosporium Padis, Septoria cercaina, and other forms are
responsible for this disease.—Sore-shin fungus, a
species of Rhizoctonia which attacks the weak seedlings
of cotton-plants, producing an ulcer just at or below the
surface of the ground and often destroying the plant.
See *damp, d.
fungus-body (fung'gus-bod'i), n. The largefungose (fung'gos), a. Same as fungous.

tinguished from the simple filamentous thallus furciferine (fer-sif'e-rin), a. [Furcifer + -ine2.]

of the lower fungi. De Bary.

fungus-gall (fung'gus-gal), n. A peculiar gall-like growth produced upon various plants by he irritation induced by fungi.

rungus-pit (fung'gus-pit), n. A pit in whi mushrooms and other fungi are cultivated. A pit in which

fungus-trap (fung'gus-trap), n. That part of the root of a plant which contains a fungus the ultimate fate of which is to be absorbed

by the host plant. Frank.

unicle, n. 5. The central connecting process in those colonies of graptolites which bear no funicle. n.

funicular. a. 2. In anat.: (b) Resembling a cord or rope: a term used in describing the cord or rope: a term used in describing the arrangement of muscle- or nerve-fibers.—
Funicular action, action exerted by means of a rope or cable; specifically, in mech., the pull exerted at the ends of a stretched rope or cord when a transverse force is applied to its middle.—Funicular curve. Same as catenary curve.—Funicular railway. See *railway. Funiculus amnii, a cord which persists for a while after the closing of the amnion and chorion, in ruminants, forming a connecting band between them.

Funk". v. II. intrans. To smoke offensively, as a fire or chimney, with puffs or gusts.

But there my triumph's strawder fared and funked.

But there my triumph's straw-fire flared and funked.

Browning, Fra Lippo Lippi, 1. 172.

funk³, v. II. trans. To shrink from or dread; be afraid of; back out from. [Colloq.]

He "funked" the cholera, as he said, and of course he got it. Having got it, he told me that he funked it no longer—and he got over it.

Geog. Jour. (R. G. S.), XII. 198.

funk³, n. 2. One who funks, shrinks from, or avoids, or who is in a state of funk.

avoids, or who is in a state of funk.

funnel, n., 4. (c) In the chambered cephalopods, the extension of the septum about the siphuncle.—Buechner funnel, a special form of funnel made of porcelain, having a perforated bottom on which the filter-paper is laid flat.—Reyer's funnel, a glass funnel with its lower rim turned inward and provided with a tubulus: used to place over liquids in the process of evaporation to condense and collect vapors.—Septal funnel, one of the narrow funnel-like depressions in the four gastric ridges of the scyphula of certain jellyfishes, as Aurelia; an infundibulum.

funnel-box (fun'el-boks), n. One of a series of square funnels used in metallurgical works for separating metal-bearing slimes according to fineness.

funnel-breast (fun'el-brest), n. funnel-chest

funnel-chest (fun'el-chest), n. A sinking in of the sternum, forming a conical depression of the anterior wall of the chest.

funnel-draft (fun'el-draft), n. The draft or current of air and products of combustion from a marine boiler caused by the difference in the weight of hot gas inside the funnel or chimney when compared with that of an equal column of external air.

funnel-tube (fun'el-tūb), n. A small glass funnel prolonged at the bottom into a tube of A small glass considerable length, much used in chemical considerable length, much used in chemical laboratories. The tube is passed gas-tight through the cork of a bottle or fissk. Also called tube-funnel.—Safety funnel-tube, an ordinary funnel tube with a double bend, with or without one or more bulbs. A liquid may be poured through it into a gas-generating flask-without the risk of being driven out by sudden increase of gaseous tension. It also limits access of air to the contents of the glass, a liquid seal or valve being established by the part of the introduced liquid which lodges in the bend.

funnel-twister (fun'el-twis'ter), n. pean rhynchitid beetle, Rhynchites betulæ, whose larvæ live in beech-leaves, which they roll into a funnel shape.

funori (fö-nö'ri), n. [Jap.] 1. A seaweed, Glæopeitis intricata, from which the Japanese prepare a fine kind of glue.—2. The glue made from this seaweed. It is used for paste, starch, and sizing, the glazing and stiffening of textile fabrics, etc. Nat. Geog. Mag., May,

of textile fabrics, etc. Nat. Geog. Mag., May, 1905, p. 208.

funt (fönt), n. [Russ. funtŭ, < G. pfund = E. pound.] The Russian pound, equal to nine tenths of an avoirdupois pound.

fun-ting (fun'ting'). n. [Also fên-ting; Chinese fun (fûn), flour; Ting Chau, a place noted for its pottery.] A Chinese porcelain having a white naste, resembling in appearance soft. white paste, resembling in appearance soft paste but in reality hard.

furca, n. 3. An inflected elastic anal organ nurca, n. 3. An innected classic anal organ ending in a fork, by which the animal is enabled to leap, as in Podura. Kirby and Spence. furcal (fer'kal), a. [NL. *furcalis, < L. furca, fork: see fork.] Of a fork; also, furcate or forked: as, the furcal processes of crustaceans.—Furcal orifice, a forked opening, as the sternal slit in certain Perlidæ. Relating to or characteristic of the deer of the genus Furcifer, frequently placed in the genus

A late larval stage in schizopodous crusta-ceans, in which the paired, stalked eyes be-come more fully developed and the most anterior pairs of thoracic and abdominal feet be-gin to form in succession from before back-

Furcimanus (fer-sim'a-nus), North Pacific.

furcula, n. 3. In *embryol.*, a forked median protuberance arising in the floor of the em-

bryonic pharynx between the third and fourth pairs of visceral arches. It de-velops into the epiglottis of the

lit), n. [L. fur-cula, a fork, +Gr. λίθος, stone.] A microlite which has a straight stem and forked extremities. F. Rutley, in Miner-Mag., alogical IX. 266.

furevernic (fūrē-ver'nik). a.

fur(furacea) + Evernia (see def.) + -ic.] Derived from Evernia furfuracea.— Purevernic acid, an acid, incorrectly called furvernacid, said to occur, in traces, in Evernia furfuracea.

furfuracryluric (fer"fer-ak-ri-lū'rik), a. Noting an acid which appears in the urine after the ingestion of furfurol.

furfural (fer'fer-al), n. [L. furfur, bran, +-al3.] See furfurol. furfuraldehyde (fer-fer-al'dē-hīd), n. Same as

furfurane (fér'fér-ān), n. [L. furfur, bran, + CH : CH A colorless liquid, -ane.] ĊH : CH

formed by the distillation of barium pyromucate with soda-lime: one of the products of the distillation of pine wood. It bolls at 31.4-31.6° C., has a characteristic odor, and imparts an emerald-green color to a pine splinter moistened with hydrochloric acid. It is the parent substance of a class of compounds similar in structure to the pyridine and thiophene derivatives.

furfurine (fer'fer-in), n. [L. furfur, bran, + -ine².] A colorless crystalline basic compound, C₁₅H₁₂N₂O₃, formed by the action of a dilute potassium-hydroxid solution on furfuramide. It melts at 116° C.

furfurylamide (fer'fer-il-am'id), n. [furfuryl + amide.] Same as furfuramide. furil (fū'ril), n. [fur(oin) + -il.]

A yellow crystalline compound, prepared by the oxidation of furoin, melting at 162° C. It is the analogue of benzil, and has the formula C_4H_3 O.CO.CO.C₄H₃O.

furilic (fū-ril'ik), a. [furil + -ic.] Of or pertaining to furil.— Furilic acid, a colorless, unstable, crystalline compound, (C4H3O)2CUH.COOH, prepared by the action of potassium hydroxid on finely divided furil.

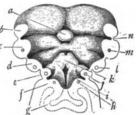
furl (ferl), n. [furl, v.] 1. A roll of what is furled.—2. The manner of furling (a sail), or the appearance presented when furled: as, a vessel is judged by the furl of the sails.

furld, pp. A simplified spelling of furled. furlo, n. and v. t. A simplified spelling of furlough.

furnace, n.—Air crucible furnace, a furnace with crucibles for melting brass.—Batho's furnace, a modification of the Siemens open-hearth furnace, from which it differs in shape, being either circular or elliptical, and in that the regenerators are placed outside of the furnace and are independent of it. The advantages of the separate regenerators are that in case of a break-out there is no risk of the metal getting into the regenerators and that it is impossible for a leakage of gas to take place between the gas and the air-regenerators and destroy the brickwork.—Belgian-Silesian furnace, a modification of the Belgian and Silesia zinc distillation furnaces: also known as the Rhenish furnace, on account of its general use in Rhenish Prussia. It usually has three rows of retorts and is either direct-fired or gas-

furcilia (fer-sil'i-ä), n. [NL., < L. furca, fork.]

Furcimanus (fer-sim'a-nus), n. [NL., < L. furca, fork, + manus, hand.] A genus of zoarcid fishes found in the deep waters of the



A. furcula.

The floor of the pharynx of a human nbryo, twenty-three days old, seen

The floor of the pharynx of a human embryo. twenty-three days old, seen from above.

a, tuberculum impar; b, mandibular arch; c, hyold arch; d, first branchial arch; c, second branchial arch; c, fifth aortic arch in the third branchial arch; c, fifth aortic arch in the third branchial arch; c, for the second branchial arch; d, fured arch; d, for the second branchial arch; d, fured arch; d, first condition arch in the hyoridean arch; d, membrane closing the hyomandibular cleft, which afterward becomes the tympanic membrane. (From Marshall's "Vertebrate Embryology.")

fred. The retorts are elliptical in shape and, in the modern furnace, shelr number exceeds 200. Also Dison furnace.—Bitcheroux's furnace, a gas reheating furnace (which see) in which the air for burning the gases is heated in a shallow five under the bottom of the furnace, same as wholl/furnace.—Blowpipe furnace, a furnace fed by powdered fuel, oil, or gas, blown through a pipe with the air which serves for its combustina.—Bollishe furnace, same as Spanish furnace.—Caststeel furnace, she wast-steel.—Coltimess furnace, and the material to be heated is contained in a cruchle of refractory material, and thus keptout of contact with the fuel. Such furnaces are much used in the manufacture of tool steel, in brass foundries, and in chemical laboratories and assaying establishmenta.—Decarbonistic, furnace, and in the manufacture of tool steel, in brass foundries, and in chemical laboratories and assaying establishmenta.—Decarbonistic, furnace, and in the manufacture of tool steel, in brass foundries, and in chemical laboratories and assaying establishmenta.—Decarbonistic, furnace, and the support of the flame or by the constitution of the alago or the furnace-lining.—Dental furnace, a small furnace used in the manufacture of porcelain tech.

Destulphursing furnace, and colding furnace, a small furnace used in the manufacture of porcelain tech.

Destulphursing furnace, and the support of the support o

of similar fire-brick chambers, which are thus heated up and become ready to serve the purpose of the first pair as these cool down, the gas—and air-currents being shifted over at proper intervals from the one pair of chambers to the other. A number of other inventors have proposed modifications in detail of the original Siemens furnace.—Stetefeldt furnace, a shaft-furnace in which silver ores are chloridized and desulphurized by first pulverizing and mixing them with salt and then dropping them through a current of hot air. So called from its inventor.—Sulphate furnace, Same as salt-cake */urnace.—Wedding furnace, a form of furnace used at the Royal Porcelain Manufactory at Berlin in 1861. It developed a very high temperature by the use of combustible gas along with a forced blast of air, the result being practically that of a blowpipe flame on a large scale. Furnaces of the same general character have been invented by Eknan, Fletcher, and others.

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fürst (fürst), n.; pl. fürsten.

61, prince, sovereign, MHG. vürste, OHG. furisto (D. vorst), a prince prince, ist. the first or chief person (L. primus or princeps), \(furist = AS. fyrst, E. first, a. \)

A German or Austrian title of nobility of lower rank than herzog, or duke, and higher than furnace.—Wedding furnace, a form of furnace used at the Royal Porcelain Manufactory at Berlin in 1861. It developed a very high temperature by the use of combustible gas along with a forced blast of air, the result being practically that of a blowpipe flame on a large scale. Furnaces of the same general character have been invented by Eknan, Fletcher, and others.

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Furnace-charger (fer nās-chār jer), n. An furnaculous.

furnace

furnace-charger (fer'nās-chār'jèr), n. An apparatus for weighing and feeding into a furnace the proper proportions of ore, fuel,

furnace-gas (fer 'nās-gas), n. 1. The products of combustion from a furnace.—2. The gas given off by a blast-furnace. This is rich enough in unconsumed carbon to be useful as a fuel for internal-combustion engines, for the production of steam, and for preheating the blast.

furnace-oven (fer'nās-uv'n), n. A baking-chamber built of brick, with a low arch: used

in bakeries.

furnace-plate (fer'nās-plāt), n. Iron or steel plate used to make the furnace or fire-box of a steam-boiler.

a steam-boiler.

furnisher, n. 2. In calico-printing, the clothcovered roller or the cylinder-brush which
furze-top (ferz'top), n. A name of the redfurnishes the color to the engraved roller on
furnishes the color to the engraved roller on
bent, A. canina.

For the spindle-tree, also

the cylinder printing-machine.

furniture, n., 3. (d) In a harness, all of the metallic parts with the exception of the bits

and roseftes.

furniture-bug (fér'ni-ţūr-bug), n. 1. The bed-bug.—2. Any one of several thysanurous insects of the family Lepismatidæ, commonly found on old furniture.—3. The silver-fish or slicker. See silver-fish, 6.

furoin (fū'rō-in), n. [fur(furaldehyde) + -o-+ -in².] A colorless crystalline compound, C₄H₃O.CO.CH.OH.C₄H₃O, melting at 135° C. It is prepared by the action of potassium cyanide on furfuraldehyde in dilute aqueousalcoholic solution, and corresponds to benzoin alcoholic solution, and corresponds to benzoin.

alcoholic solution, and corresponds to benzoin.

furonic (fū-ron'ik), a. [fur(furpropi)on(ic).]

Noting an acid, a colorless crystalline compound, C7HgO3, formed by the oxidation of furfurpropionic acid. It melts at 180° C.

furred, a. 3. Fitted with a kind of partition made with furring-strips, as an outer wall of masonry. The lath and plaster work are secured to the furring strips and so are not masonry. The lath and plaster work are secured to the furring-strips and so are not exposed to the dampness of the wall.

Furriers' asthma. See *asthma.

furrow, n.—Ambulacral furrow, arm furrow. Same as ambulacral groove (which see, under ambulacral).—Dead furrow. Same as water-furrow. [U. 8.]

The plowing of a thoroughly tiled field should leave no dead furrous for surface-water to follow.

W. I. Chamberlain, Tile Drainage, p. 68.

no dead furrows for surface-water to follow.

W. I. Chamberlain, Tile Drainage, p. 68.

Flat furrow, in agri., a furrow so cut and so turned that the furrow.—Genital furrow, so in infolding of the integument just below the genital tubercle in the embryo: this becomes later the vulvar opening or the urethra.—Gluteal furrow, the crease between the nates.—Interventricular furrow, a longitudinal depression on the external surface of the heart, on either side, marking the course of the septum between the two ventricles.—Jade-lov's furrows, various lines seen on the face in disease.—Lap furrow, in agri., a furrow in which the silce is so shaped and so turned that one edge rests on the preceding alice and another supports the succeeding one: opposed to fat *furrow.—Lunoid furrow, in glaciol., a crescentic depression due to subglacial erosion. Nature, April 10, 1902, p. 541.—Mayrian furrow, one of the two oblique furrows which form a V-shaped figure on the mesonotum of male ants: not to be confounded with the parapsidal furrows.—Meridian furrow, a central furrow courring in segmentation of the ovum.—Nuchal furrow. Same as *neck-furrow.—Open furrow, any furrow not filled by a furrow-slice; either a water-furrow proper or a cross-furrow for drainage.—Seed furrow, the last plowing before the sowing. Law, Pract. Agr., p. 258.—To strike the furrows, in agri, to mark off the center of a ridge; to feer.—Ungnal furrows, transverse grooves in the nails, formed at the root during a severe illness or other period of lowered nutrition.—Vitelline furrow yolk-furrow, in barefallowing, the autumnal plowing. Loudon, Encyc. Agr., p. 802.

furrow-pan (furrow compacted by the weight

furrow-pan (fur'o-pan), n. In plowing, the bottom of the furrow compacted by the weight

bottom of the furrow compacted by the weight and action of the plow and horse; also the subsurface soil of a field so compacted. furrow-wheel (fur'ō-hwēl), n. In a plow, a small wheel running in the furrow. In gang sulky-plows, two are used, placed one behind the other at an angle. Instead of running vertically they are in-clined outward to reduce the friction.

furunculose (fū-rung'kū-lōs), a. Same as *furunculous.

furunculous (fū-rung'kū-lus), a. Marked by successive eruptions of boils.

fur-worker (fēr'werk'er), n. In leather-manuf., a wheel for removing the oil from fur-skins.

Modern Amer. Tanning, p. 204. furz, n. A simplified spelling of furze.

furze¹, n.—Native furze, in Australia, an evergreen shrub, Hakea ulicina, of the family Proteaces.
furze² (ferz), v. i.; pret. and pp. furzed, ppr. furzing. [For fuzz, v.] To become entangled, as silk fibers during the reeling from the cocoon.

These [weak cocoons] are separated from the other kinds, because in reeling they must be immersed in colder water in order to avoid any furzing or entangling

bent, A. canina.

fusain (fü-zah'), n. [F., the spindle-tree, also charcoal made from it, (ML. fusago (fusagin-), (L. fusus, a spindle.] A crayon of fine charcoal; also, a charcoal sketch.

fusarial (fū-zā'ri-al), a. [Fusarium + -al1.] Of or pertaining to the fungus Fusarium.

A fusarial disease of tomatoes occurs in Florida and so in England.

U. S. Dept. Agr., Div. Veg. Physiol. and Pathol., (Bulletin 17, p. 35.

Fusarium (fū-zā'ri-um), n. [NL. (Link, 1809), L. fusus, a spindle.] A large genus of hyphomycetous fungi, having more or less effused sporodochia and bearing mostly spindle-shaped or sickle-shaped light or bright dle-shaped or sickle-shaped light or bright colored conidia on branched conidiophores. About 300 species have been described, many of which are probably not distinct. Some are known to be the conidial forms of hypocreaceous ascomycetes and cause serious plant diseases, as F. vasinfectum, the conidial stage of Neocomoepora vasinfecta, which causes the wilt-disease of cotton and cow-peas. See wilt-disease, under **disease*, and **wilt.

fuscin, n. 2. A black pigment found in the choroid and the epithelial layer of the retina,

adjoining the choroid of the eye.

fuscohyaline (fus-kō-hí a-lin), a. [L. fuscus, dusky, + Gr. ὐάλινος, of glass: see hyaline.]

Dusky but translucent, as the wings of certain insects. Annals and Mag. Nat. Hist., April,

insects. Annue and 1903, p. 399.

fuscopiceous (fus-kō-pish'ius), a. [L. fuscus, dusky, + piccus, of pitch: see piccous.]

dark gray. Annuls and Mag. dusky, + piccus, of pitch: Dusky black; dark gray. A Nat. Hist., June, 1903, p. 610.

fuscopunctate (fus-kō-pungk'tāt), a. [L. fuscus, dusky, + NL. punctatus, punctate.]
Having dark punctures, as the elytra of a
light-colored beetle. Annals and Mag. Nat.
Hist., May, 1901, p. 423.
fuscoviolaceous (fus'kō-vī-ō-lā'shius). a. [L.

fuscus, dusky, + violaceus, of violet color: see violaceous.] Dusky violet in color. Annals and Mag. Nat. Hist., Aug., 1903, p. 268.

use², n. 2. In elect., a piece of conductor, inserted into an electric circuit, which is of less current-carrying capacity than the rest of the circuit, and therefore under excess of current melts and opens the circuit. Fuses are either exposed (that is, open fuses) or protected by an insulating tube which frequently is filled with some granulated insulating material. These latter are called inclosed or cartriage fuses— Chemical fuse, a fuse which is fired by chemical action between substances brought into contact: used in torpedoes or submarine mines.— Detonating-ruse, a fulminate-fuse used for detonating high explosives.

fuse-block (fūz'blok), n. In elect., a block of porcelain or other refractory insulating me the circuit, and therefore under excess of cur-

porcelain or other refractory insulating ma-terial provided with terminals between which the fuse-wire of an electric circuit is connected. Fuse-blocks are commonly made in two parts, a base on which the fuse is mounted, and a cover to prevent the escape of the molten metal when the fuse is over-

fuse-link (fūz'lingk), n. In elect., a link, made of fuse-wire or cast from fusible metal, for insertion in a fuse-block.

fuse-lock (fūz'lok), n. A device for lighting the free end of a fuse by means of a friction-match which is set off by pulling a lanyard attached to a trigger.

fuse-wire (fūz'wīr), n. In elect., wire made of an easily fusible metal and used to protect circuits from excessive currents. When the current passes a certain value, depending on the size of the wire, the latter melts, thus breaking the circuit.

fusibility, n.—Scale of fusibility, a series of six species proposed by Franz von Kobell, and now commonly used in designating the relative fusibility of minerals. The species are: (1) stibnite; (2) natrolite; (3) almandin garnet; (4) actinolite; (6) orthoclase; (6) hyportics

Pusicoccum (fū-zi-kok'um), n. [NL. (Corda, 1829), (L. fusus, spindle, + Gr. κόκκος, berry.]
A genus of sphæ-

ropsidaceous fungi in which the pycnidia form more or less irregular chambers in a black leathery pusa black leathery pus-tular stroma. The spores are simple, hyaline, and usually spindle-shaped. The species occur chiefly on the branches of woody plants and some are regarded as the pyrni-dial condition of species of the pyrenomycetous genus Diaporthe. F. Abie-tinum causes a girdling tinum causes a girdling of the silver fir by killing the bark on the small

The technical name

Abietinu

**Praising (fū/zing), a general appearance of an affected twig: \$\delta_c\$ cross-section of a affected twig: \$\delta_c\$ cross-section of a commain command the section of a command the section of t

of a process to which the harder resins, amber and copal, are subjected preparatory to using them in making varnishes. More than mere liquefaction being required, a partial destructive distillation is brought about by the continued action of heat, and volatile products are given off, after which the residue becomes soluble in turpentine and some other solvents. Sadtler, Handbook of Indust. Chem., p. 109.

fusion, n. 6. In modern psychol.: (a) A mode of intimate connection of elementary mental processes, such that the connected elements are difficult of analysis, and the resulting com-plex approximates the simplicity of impression characteristic of the element itself. (b) The product of this connection; the blend or fused complex. The term has gained currency from its use in C. Stumpf's "Tonpsychologie" (1883, 1890). It is used with varying shades of meaning by different authors, and has not as yet received final definition.

By far the great majority of odours are not elementary at all, but compound,—mental complexes or fusions of the same sort as the note of a musical instrument, which is in reality a combination of a number of simple tones.

E. B. Titchener, Exper. Psychol. I. I. 70.

Aqueo-igneous fusion. Same as hydrothermal */usion.

— Degree of fusion, the relative simplicity or complexity of a fusion of sensations. See the quotation.

Since the fusion [of tones] presents all grades, from elvious complexity to a simplicity that counterfeits the simplicity of sensation, we may speak of a scale of fusions. That fusion is the most perfect, which is most unitary in perception; that fusion is the least perfect, whose components fall apart most readily in perception.

E. B. Titchener, Exper. Psychol., I. i. 171.

whose components fail apart most readily in perceptics.

E. B. Titchener, Exper. Psychol., I. 1.171.

Diffuse fusion, in Wundt's psychology, a fusion such as is presented by a noise, or a complex of noise and tone, in which the tonal elements may be referred to a certain region of the tonal scale, but cannot be separately identified as tones of definite pitch: opposed to distinct *fusion.—Distinct fusion, in Wundt's psychology, a fusion such as is presented by the clang or musical note, in which, while a single tone of definite pitch dominates the complex, the other modifying tones, though less in evidence, can also be identified by specially directed attention as tones of similarly definite pitch: opposed to diffuse *fusion.—Extensive fusion, in Wundt's psychology, the fundamental form of simultaneous association which gives rise to the idea of space. A fusion, for Wundt, is an association characterized by the intimacy of connection of the elements and the novelty of the resultant. The idea of space is termed an extensive fusion, in order to mark the nature of the total process which results from the association of the intensive and qualitative elements. Baldwin, Dict. of Philos. and Psychol., I. 388.—Heat of fusion. See fusion.—Hydrothermal fusion, fusion by heat in the presence of water or of water vapor; fusion by the combined action of heat and water. Also called aqueo-igneous fusion.—Intensive fusion, in Wundt's psychology, a fusion of like sensational elements: opposed to extensive *fusion.</code>—Powder of fusion. See *powder.—Primary fusion, in embryod., union or fusion of undifferentiated structures, as in the formation of double monsters by the primary fusion of the axes of two embryos developing in the same egg.—Secondary fusion, union or fusion of embryonic structures at a relatively late stage, after they have been clearly differentiated.—Tonal fusion, in psychol.: (a) The mode of connection of simultaneous sensations of number of simple tonal stimuli. See *fusion, 6.

fusion-disk (fü'zhon-disk), n. Same as *disk-

which are divided into chambers by vertical septa and into chambers by vertical septa and into chamberlets by transverse partitions.

Fusoma (fū-zō'mṣ), n. [NL. (Corda, 1837), { futil, a. A simplified spelling of futile.

L. fusus, spindle, + -oma.] A genus of hyphomycetous fungi, having the hyphe but slightly spreading and bearing spindle-shaped septate conidia. F. parasiticum is a parasite on pine seedlings.

which are divided into chambers by vertical septa and one from the top and one from the bottom simultaneously, with the finger and thumb of the right hand. Also called milking and snowing.

fuzzitype (fuz'i-tip), n. [fuzzy + -type.] An intentionally blurred photograph. [Colloq.] septate conidia. F. parasiticum is a parasite roost.] A storehouse for grain, etc., set on four posts so haveled as to sford we had according to taking one from the top and one from the bottom simultaneously, with the finger and thumb of the right hand. Also called milking and snowing.

fuzzitype (fuz'i-tip), n. [fuzzy + -type.] An intentionally blurred photograph. [Colloq.] on pine seedlings.

'fusses' over girls; a particularly active beau. [College slang.]

fustee (fus-te'), n. [Appar. a variation of mustee, mestee.] The offspring of a mestee and a white. [West Indian.]

Fustic substitute, a trade-name for a dyestuff consisting of quercitron extract to which stannate of soda or sulphate of zinc has been added. Sadtler, Handbook of Indust. Chem., p. 459.—Old fustic, a dyewood from Morus tinctoria, and also from Mactura tinctoria and Broussonetia tinctoria. See fustic.

Tustin. n.—Patent fustin a mordant acid conliter.

tinctoria. See fustic.

fustin, n.—Patent fustin, a mordant acid coal-tar
color of the monoazo type, prepared by combining diazotized aniline with fustic extract. It does wood yellow in
an acid bath. An after-chroming renders the color faster.
Also called wood yellow.

Fusulinids (fū"sū-lin'i-dō), n. pl. [NL., < Fusulina + -idæ.] A family of extinct Foraminifera, having fusiform or spherical calcareous

fuye (fō'ya), n. [Jap.] The Japanese flute.

Fuye.

Fuye.

Simplified spelling of fuzz.

Simplified spellings of fuze, fusion.

house, = Hawaiian haka, a ladder, a henroost.] A storehouse for grain, etc., set on four posts so beveled as to afford no hold for rats that attempt to climb them. [New Zeal-

on pine seedlings.

fuss-budget (fus'buj'et), n. A nervous, fidgety person. [Dialect. V.S.] Dialect Notes, II. vi. fusser (fus'er), n. 1. One who fusses or makes a fuss over or about something.—2. One who 'fusses' over girls; a particularly active beau. [College slang.]

fustee (fus-te'), n. [Appar. a variation of fustee (fus-te'), n. [Appar. a variation of sh-intoxicant. In Fijithe fruits are also used by the natives as a fixe. In figure of physical statement to climb them. [New Zeal-and.]

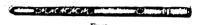
fuszy-guzzy (fuz'i-guz'i), n. The common fusus, fuzzy-guzzy (fuz'i-guz'i), n. The common fusus over or about something.—2. One who 'fusses' over girls; a particularly active beau. [College slang.]

fuszy-guzzy (fuz'i-guz'i), n. The common fusus, fuzzy-guzzy (fuz'i-guz'i), n. The common fusus overlasting, Gnaphalium obtusifolium, so called fusus tree having 4-cornered pyramidal fruit the outer-weed.

fuszy-guzzy (fuz'i-guz'i), n. The common fusus overlasting, Gnaphalium obtusifolium, so called fusus overlasting, Gnapha fish-intoxicant. In Fijithe fruits are also used by the natives as floats for fishing-nets and in playing a certain game. The tree is of wide distribution and is characteristic of the vegetation of the inner beach on many tropical shores. See *botong (with cut), and *Barringtonia formarion. Also called hutu.

Figure 1920, **Control of the state of the state of the state of the state of the vegetation of the inner beach on many tropical shores. See *botong (with cut), and *Barringtonia for formerly current in Sweden and Denmark; 192 were equal to one rix-dollar.

Future debt. See *debt. fuye (fö'yā), n. [Jap.] The Japanese flute.



tests composed of spirally enrolled whorls fuzzing (fuz'ing), n. In shuffling cards, the which are divided into chambers by vertical septa and into chamberlets by transverse partitions.

The bottom simultaneously, with the finger and thumb of the right hand. Also called milking

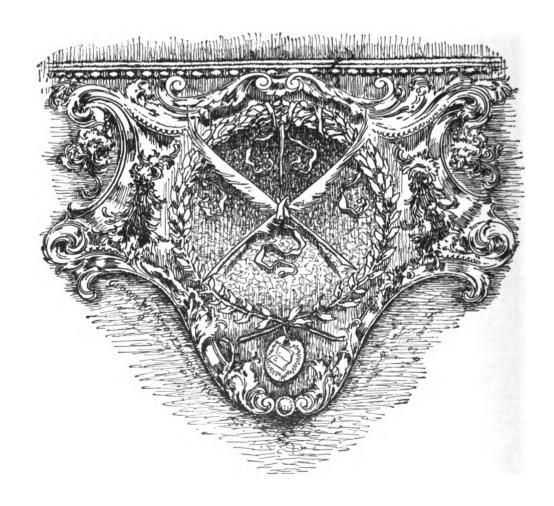
'Fuzzitypes' have no precise functions in illustrating geological phenomena. Rep. Brit. Ass'n Advancement of Sci., 1901, p. 31.

fyrk (fürk), n. [Sw. Dan.] A copper coin formerly current in Sweden and Denmark; 192 were equal to one rix-dollar.

fysic, fysical, fysician, etc. Simplified spellings of physic, etc.

fysiognomist, fysiognomy. Simplified spellings of physiognomist, physiognomy. fysiologic, fysiologist, etc. Simplified spellings of physiologic, etc.

F. Z. S. An abbreviation of Fellow of the Zoilogical Society.











4. In music: (d) The G next shove middle C has (at French pitch) about 388 vibrations per second.

(h) The proper tone of the fourth or lowest string of the fourth or lowest string of the fourth or lowest string of the forms the gable-end of a house. In a simple square sibly identical with the morrh violin, which is therefore called the G-string. The vio-lin or treble clef designates the degree of the staff as-

signed to the G next above middle C.—6. In signed to the G next above middle C.—6. In chem.: (b) G a, β , γ , δ , ϵ , ζ , and η , symbols provisionally assigned by Crookes to chemical elements the presence of which in the oxids of the yttria group from gadolinite seemed to be indicated by special features in the phosphorescent spectrum.

7. In elect., a symbol for conductance, the reciprocal of resistance. See conductance.—

8. An abbreviation (a) [l. c.] of genitor.

8. An abbreviation (a) [l. c.] of genitive; (b) of German and Germany; (c) [l. c.] of gram; (d) of gulf; (e) in a log-book, of gloomy weather.

Ga. 3. An abbreviation of Gaelic.

G. A. An abbreviation (a) of General Assembly; (b) [l. c.] of general average.

gabe (gäb), n. [Hind.] Same as gaub.

gabare (gä-bär'), n. [F., < Pr. gabarra, = Sp.

It. gabarra; origin unknown.] Naut., a storevessel or lighter.

gabattal (ga-bat'ä), n. See *mancala.

gabatta¹ (ga-bat'ä), n. See *mancala.
gabbock (gab'ok), n. [Also gabbok, gabbuck,
gobbock, < Ir. gobog, a dogfish, perhaps < gob,
mouth.] A dogfish peculiar to St. George's
Channel, between Wales and Ireland.

Channel, between Wales and Ireland.

gabbro, n. It is proposed, in the field classification of igneous rocks in connection with the quantitative system of classification (1902), to use the term gabbro for all granular igneous rocks with dominant pyroxene and subordinate feldspar of any kind, with or without hornblende and mica. Such rocks would include the less feldspathic gabbros and norites, and some diorites. See *rock1.

gabbro-diorite (gab'rō-dī'ō-rīt), n. 1. A rock intermediate between gabbro and diorite, having both pyroxene and hornblende in nearly equal amounts.—2. A rock partly altered. or

equal amounts.—2. A rock partly altered, or completely metamorphosed, in which the horn-

completely metamorphosed, in which the horn-blende is secondary. Same as *metadiorite. gabbroid (gab'roid), a. [gabbro + -oid.] In petrog., resembling or somewhat like gabbro; also suggested by Chamberlin and Salisbury (1904) as a general term applicable to any crystalline rock in which the ferromagnesian minerals predominate: thus, many diorites, gabbros, and dolerites, and all peridotites would be gabbroids.

gabgab (gäb'gäb), n. [Chamorro gabgab, Tagalog dapdap.] 1. On the island of Guam, the coral-tree, Erythrina Indica, the appearance of the bright scarlet blossoms of which announces the beginning of the rainy season. Its wood is soft and is used for making troughs.

-2. The South Sea arrow-root. See *gaogao.
gabi (gä'bē), n. [Philippine Sp., also gaby,
gabe (spelled also gave), Tagalog and Bisaya
gabi.] A name given in the Philippines to
the taro plant, Caladium Colocasia, the starchy
rootstock of which is a food staple of the natives. Also called dagmai. See taro1 and Colocasia.

Colocasia.

gabilan (gä-bē-län'), n. [Sp., a hawk: see gavilan.] A name, in Mexico, of one of the large rays, Rhinoptera steindachneri.

gabing-ouak (gä-bing-ō-wäk'), n. [Tagalog gabing-ouak, crow's-taro, < gabi, taro, + ouak, crow.] A very acrid stemless aroid, Typhonium divaricatum, which grows in damp places.

[Delilipina In] [Phillipine Is.]

Gabion trip, wrought-iron gabion hoops so intertwined as to form an entanglement.

gabionate (gā'bi-on-āt), v. t.; pret. and pp. gabionated, ppr. gabionating. [gabion+-ate².]
To furnish or protect with gabions. Urquhart, tr. of Rabelais.

gable¹, n. 4. In mech., the outer end or tip of the crank in a cranked axle or shaft. The fin-

gable-wall (ga bi-wall, n. The wall which forms the gable-end of a house. In a simple square or rectangular house with doubled-pitched roof there are two side-walls and two gable-walls. Generally, but not always, a gable-wall rises into a fointed, triangular top. gab-motion (gab'mō'shon), n. A reversing valve-gear for slow-running steam-engines, in which a gab-hook is used to attach the eccentric and to the valve stem or wrist place. which a gao-hook is used to attach the eccentric-rod to the valve-stem or wrist-plate. There will be two eccentrics: one set relatively to the engine-crank for forward motion, and the other nearly 180 degrees from it for backward motion. Each will have its own rod, and will carry its gab-hook near the end. The engine, when started by hand, will continue to turn in the direction determined by the engagement of one or the other hook with the pin which drives the valve-rod.

Gaboon rubber. See *rubber.
gaboric (ga-bor'ik), a. Same as *jaboric.—
Gaboric acid. Same as *jaboric acid.
gaboridine (ga-bor'i-den), n. Same as *jabori-

gaborine (gab'ō-rin), n. Same as jaborine. Gackenia (ga-kē'ni-ā), n. [NL. (Heister, 1763), named in honor of A. C. Gackenholz (died 1717), named in honor of A. C. Gackenholz (died 1711), professor at Helmstadt.] A genus of dicotypeledonous plants of the family Brassicaceæ. To this genus belong the stock-gillyflowers, the most important species being G. incana (Cheiranthus incanus of Linnæus). G. annua (Cheiranthus annuus of Linnæus). See Matthiola. gad1, n. 8. A measuring-rod for land; a measure of length varying in different districts.

gad¹, n. 8. A measuring-rod for land; a measure of length varying, in different districts, from nine or ten to as many as twenty feet. 9. A division of an uninclosed pasture, said to have been usually 61 feet wide in Lincoln-

gad' (gad), n. [Ir. gad.] A cord or rope made from the fibers of the osier. [Irish.] gadabout, n. 2. A light square box-wagon, a substitute for the democrat.

gadenium (ga-dē'ni-um), n. [NL.] A name given to one of several alleged new chemical elements said to have been detected in rocks of glacial origin in Scotland. There is no good reason for believing in the existence of such a substance, and it is doubtful whether the original announcement was intended to be taken seriously.

gadily, n.— American gadily, Tabanus americanus.—
Black gadily, Tabanus atratus.— Black-striped gadily, Tabanus nigrovitatus.— Mexican gadily, Tabanus mericanus.

gadge (gaj), n. [A blunder due prob. to an imperfect memory of ganch, or a pseudo-archaism, gagge, old spelling of gag, erro-neously supposed to have been pronounced gadge (gaj).] A spurious word, in the passage quoted, intended to denote some instrument of torture.

Ah, they come! Fly you, save yourselves, you two!
The dead back-weight of the beheading axe!
The glowing trip-hook, thumbacrews and the gadge!
Browning, A Soul's Tragedy, i.

gad-hook (gad'huk), n. A long pole terminating in an iron hook, used by millers to clear their streams of floating logs and branches. Also gad-crook. F. T. Elworthy, Dialect of West Somerset. [Eng. Dial.]
gadimine (gad'i-min), n. [Origin not ascertained.] A non-poisonous ptomalue, C₇H₁₈ gage², v. t. 4. To adjust the proper quantity of water to be used in mixing hydraulic cermings and of corpses.

rings and of corpses

gadolinia (gad-ō-lin'i-ä), n. [NL.: see gado-linium.] In chem., oxid of gadolinium, one of the rare earths, found as a constituent of the mineral samarskite from North Carolina; also

found in orthite.

gadolinic (gad-ō-lin'ik), a. In chem.: (a) Containing gadolinium as a chemical constituent:

as, gadolinic nitrate or sulphate. (b) Relatto or derived from gadolinite.

the crank in a cranked axle or shaft. The finishing of this is termed cutting the gable.

gable (gā'bl), v. t.; pret. and pp. gabled, ppr.

gabling. To give to a roof a gable or gabled

gadolinum (gad-ō-li'num), n. In chem., same

505

gadron, n. Same as goaron.
gaduin (gad'ū-in), n. [L. gadus, cod, + -u+ -in².] An organic substance obtained by
De Jongh from brown cod-liver oil. It is possibly identical with the morrhuic acid, C₀H₁₃
NO₃, described by Gautier and Mourgues.
gad-wand (gad'wond), n. A goad for oxen.
gaddinic (jē'i-din'ik), a. [See *gaidic.] Same

as *gaidic.

Gaelicist (gā'li-sist), n. [Gaelic + -ist.] A student of Gaelic; one who advocates the study and use of Gaelic.

So far as the patriotic, the national, situation is con-cerned, we think that Dr. Hyde and the Gaelicists may be reassured. Evening Mail, Nov. 28, 1906.

gæsum (jē'sum), n. [LL. or ML. gesum, gesus, Gr. yaioov, yaioos, a spear; cf. AS. gār, a spear; see gar¹, gore².] A long, heavy javelin peculiar to the ancient Gauls.

gaf, n. and v. A simplified spelling of gaff¹.
gaff¹, n.—Fore-trysail gaff (naul.), the gaff to which
the head of the fore-trysail is bent.—Standing gaff,
gaffs which are kept hoisted, or throated and peaked,
and on which fore-and-aft sails are set by means of an
outhanl, and furled by means of brails. These sails have

gaff³ (gaf), n. [Of slang origin f] Short for

gaff- (gaf), n. [Origin obscure.] Used in the following phrase.—To blow the gaff. See *blow! gaff-band (gaf'band), n. A split spring-band, designed to fit over a gaff, and held together by a screw-bolt which draws the ends together,

binding it to the gaff.
gaffer², n. 3. A workman in a glass-factory;
a finisher.

gaff-net (gaf'net), n. Naut., an angler's net for landing fish: used in place of a gaff-hook. gaff-sail (gaf'sal), n. Naut., a fore-and-aft sail which sets upon a gaff: in distinction from a staysail or a squaresail, which set respectively many a stay and a ward. See cut spectively upon a stay and a yard. See cut under gaff1.

gaff-string (gaf'string, n. Naut., an English term for a rope for making fast a portable post or staff to the side of a lighter.

Gaff-topsail clue-line. See *clue-line, *hal-

uards.

A common name of Mycteroperca microlepis, a large serranoid fish, attaining a length of two



Gag (Mycteroperca microlepis). (From Bull. 47, U. S. Nat. Museum

ment.

ment.

gage², n. 5. A pipeful of tobacco. N. E. D.

—Anger-bit gago. See auger-bit.—Birmingham gage, a gage for wire and sheet-metals, which was adopted in Birmingham, England. See wire-*gage and *B. W. G.—Boiler-plate gage, a caliber-square adapted to measuring the thickness of sheet-metals.—Carpenter's gage, a gage for scribing: used by carpenters to mark an incised line parallel to the edge of a board, or the like.—Circumference gage, a slide-rule and caliber-gage graduated to give readings of the relative circumference and diameter of a rope or other cylindrical body; an internal and external gage.—Closed-vacuum gage, a mercurial barometer-gage for pressures below 1,000 millimeters. The upper limb of the U-tube is sealed and a trap inserted.—Combination gage, a gage which indicates two measurements, as pressure and vacuum, pressure and head of water, or pressure and temperature of steam.—Compound gage. Same as combination *gage.—Cylindrical

gage, a standard steel gage for measuring internal and external diameters.—Glass-cutter's gage, an instrument for measuring and marking glass. It is essentially a scratch-gage having a diamond-point at the end.—Hook-gage, a gage for measuring the height of water in a stream or reservoir in which the zero of the gage, or the point intended to coincide with the surface of the water, is the point of a sharp metal rod or heavy wire depending from the gage and bent in the form of a hook pointing upward and touching the water surface from beneath the surface.—McLeod gage, an apparatus for measuring very small pressures by taking a known volume of the gas whose pressure is to be measured and compressing it into a very small tube; its volume and pressure after compression having been observed its original pressure can then be calculated by Mariotte's or Boyle's Law.—Railway-gage, the distance between perpendiculars on the insides of the heads of the two rails of a track. Standard gage is 4 feet 8½ inches; anything less than this is narrow gage; anything broader is broad gage. The dimension was fixed for the United States by the wheels of the British locomotive imported from the Stephenson Works in 1829. The gage, in England, is probably due to the fact that the distance from center to center of wagon-wheels is rive feet: the first rails were troughs or channels to receive these five-foot wheels. When the change was made to finged wheels in place of fianged rails, the axle or center dimensions of the wheels were not changed, but the gage was made to conform to the dimension of the modified wheel-tread. Some railways in the United States it was six feet. The narrow gage in Europe is one meter: in the United States the research of finged rails, the axle or center dimensions of the wheels were not changed, but the gage was made to conform to the dimension of the modified wheel-tread. Some railways in the United States it was six feet. The narrow gage in Europe is one meter: in the United States it was six feet. The narrow

Number.	Birmingham: inch.	Brown and Sharpe: inch.	New British : inch.
0	0.34 0.134	0.325 0.102	0.324 0.128
20 30 40	0,035 0,012	0,032 0.010 0.0031	0.036 0.012 0.0048

gage-brick (gāj'brik), n. under brick2. See gaged brick,

Gaged work. See *work.

gage d'amour (gäzh dä-mör'), n. [F.] A

pledge or token of love. gage-field (gāj'fēld), n. The field covered by a photograph of a restricted area of the heavens, made with a given instrument, under constant conditions, for the purpose of gaging the abundance or density of the stars in that

As a specimen of a photographic gauge-field on a small scale, we may take Prof. Pickering's catalogue, from the Harvard plates, of 947 stars within 1° of the north celestial pole. The region examined lies about 27° from the zone of the Miky Way, but is nearly reached by a faint extension from it.

A. M. Clerke, in Smithsonian Rep., 1891, p. 107.

gage-plate (gāj'plāt), n. An adjustable stop fitted on shearing, punching, and cutting-off machines, as a guide for cutting or punching pieces to a uniform dimension.

gage-rod (gāj'rod), n. An iron or steel rod, from 1 to 1 inchindiameter, the ends of which are tapered nearly to a point, used in mea-suring the internal diameter or bore of a piece which must be carefully fitted. Such a role also used to test the shape of flues of internally fired boilers when subjected to hydraulic pressure to ascertain if there is any tendency to flatten out or assume an oval form.

gage-tube (gāj'tūb), n. A tube used to connect a pressure- or other gage to the cylinder or vessel the pressure in which is to be ob-

gage-weir (gāj'wēr), n. A dam of which the whole, or a portion, consists of movable shutters or wickets, by opening or closing which at different stages of water the height of water above the dam can be regulated.

gaging, n. 4. Calcined gypsum added to plaster

gaging, n. 4. Calcium added to plaster to regulate its rate of setting or hardening. gaging-line (gā'jing-līn), n. A graduated line drawn on a gaging-rod or slide-rule which is used for measuring the contents of casks.

gag-strap (gag'strap), n. A short strap which passes under a horse's jaw. The ends are secured to rings or eyes in the top arms of the

gaidic (gī'dik), a. [(hypo)ge(ic) + -id + -ic.]

Derived from hypogeic acid.—Galdic acid, a color-less crystalline compound, $C_{16}H_{30}O_2$, melting at 39°C. It belongs to the oleic series and is formed by the action of nitrons acid on hypogeic acid, with which it is isomeric. Also called gardinic acid.

Also called gendinic acid.

Gaidropsarinæ (gī"drop-sa-rī'nē), n. pl. [NL.,
Gaidropsarus + -inæ.] A subfamily of gadoids or catfishes, including the bearded rocklings, typified by the genus Gaidropsarus.

Gaidropsarus (gi-drop'sa-rus), n. [NL. (Ra-finesque).] A genus of fishes, including the three-bearded rocklings, of the family Gaddiæ, found in the North Atlantic. The commonest European species is G. mediterraneus. The genus is commonly known as Onos or Motella, but the name Gaidropsarus is much older.

dropsarus is much older.

Gaillardia, n. 2. [l. c.] A plant of the genus Faillardia, n. 2. [c. c.] A plain of the genus of Gaillardia. Of the cultivated species, G. aristata is a perennial and G. pulchella and G. amblyodon are annuals. G. lanceolata of pine-barrens in the southern United States has the book-name of sweet gaillardia, from the scent of its flowers. Rayless gaillardia is G. suaris, found from Kansas to Texas. Various species are called blanket-flower in the West.

gain¹, n. Law of greatest gain, a phrase used to express the alleged universal tendency of human nature to try to secure a maximum amount of wealth, or satisfaction of wants, through a minimum expenditure of effort, or endurance of pain.

The fundamental law of human nature, and therefore of political economy, is that all men will, under all cir-

cumstances, seek their greatest gain.

L. F. Ward, Dynamic Sociol., I. 20.

Gainfahren marl. See *marl1.

gaining-head (gā'ning-hed), n. The holder for revolving cutters on the end or head of a rapidly revolving shaft, by which rectangular channels or grooves are cut across the grain galactonic (gal-ak-ton'ik), a. [Gr. γάλα (γαof timber Such grooves or galacton are cut by chies). λακτ-), milk, + -one + -ic.] Derived from of timber. Such grooves are cut across the grain of timber. Such grooves or gains are cut by chiseledged cutters which alternate with small segments of the edge of a circular saw, and which are all held in grooves or dovetailed channels in the tool-holder called the head. The saw-segments cut the fibers at the sides of the gain and the chisel-cutters remove the wood between to the desired depth.

gaining-saw (gā'ning-sâ), n. A saw for cutting square grooves or gains across the surface of timber: most frequently used in connection with or as part of a *gaining-head (which see).

(which see).

gainshire (gān'sher), n. [Origin obscure; perhaps a dial. var. of *qancher, < qanch, v.] The barb of a fishing-hook. Halliwell.

gain-wheel (gān'hwēl) n. A pinion-gear on a spinning-mule which causes a supplementary drawing of the roving, from the fact that the spindle-carriage gains, in its speed of outward traverse, upon the delivery-rollers.

gait1. n. Ataute gait. See kulgaic.—Carebellar

gait¹, n.—Ataxic gait. See *ataxic.—Cerebellar gait. See *cerebellar.—Paralytic gait, a shuffling mode of progression in which the anterior portion of the foot drags along the ground at each step.—Spastic gait, progression by means of short steps, the ball of the foot first striking the ground and further progress being thereby momentarily arrested: observed in lateral spinal scierosis.—Steppage gait. Same as stepping *gait.—Stepping gait, a disorder of progression, often noted in multiple neuritis, in which the foot is raised far from the ground at each step. Also called *teppage gait.

gait² (vāt). v. t. [anit² n.] To set up (gaits of

gait² (gāt), v. t. [gait², n.] To set up (gaits of grain) to dry. See gait², 2. gaiting-pole (gāt'ing-pol), n. A short pole attached to a sulky in such a position as to keep the horse straight in the shafts. It has a wooden roller which plays against the body of the horse.

gaize (gaz), n. [F.] A fine-grained frag-mental rock, of granular and porous texture and of silicious composition, distinguished by the fact that a considerable percentage of he silica is soluble in alkalis: found in the Cretaceous and Tertiary formations of France. Geikie, Text-book of Geol. (4th ed.), p. 166. gala¹, n. 2. Festal attire; one's best clothes:

as, to be in gala. [Scotch.] galach, n. See *galah.

galacta crasia (ga-lak-ta-krā'zi-ā), n. [NL., $\langle Gr. \gamma \acute{a} \lambda a (\gamma a \lambda a \kappa \tau_{-}), \text{ milk}, + \kappa \rho \acute{a} o c, \text{ mingling.}]$ An abnormal condition of the milk of a nursing woman.

Falactan (ga-lak'tan), n. [galact(ose) + -an.] A gummy substance, $C_6H_{10}O_5$ (γ -galactan), allied to manna, which is extracted from the galactan (ga-lak'tan), n. seeds of legumes and is formed to a small extent during certain fermentations. It is oxidized to mucic acid by means of nitric acid and yields galactose on hydrolysis.

tose on hydrolysis. galactase (ga-lak'tās), n. [Gr. γάλα (γαλακτ-), milk, + -ase.] A proteolytic ferment, occurring in milk, and capable of digesting casein. It produces decomposition-products similar to those which normally occur in ripened cheese. It has been suggested that it may be responsible for many of the phenomena associated with cheese ripening which were formerly attributed to the action of bacteria.

Galactic acid, a yellow, syrupy, tetrabasic acid, $C_{14}B_{10}$ $O_{9}(?)$, formed by the gentle oxidation of lactose (milksugar).—**Galactic plane**, the plane of the galactic circle (which see, under galactic).

galagala

A most important and lucid paper by Professor Simon Newcomb has been published on the position of the galactic and other principal planes toward which the stars tend to crowd. He states the problem thus: "It is well known that the sky appears to us poorest in stars in the regions around the poles of the galaxy, and that it continually grows richer at a rate which is slow at first but more rapid afterwards, from the poles toward the galactic circle." Within the galactic girdle, the thickness of the stars in space is approximately constant, but in the Milky Way itself it is obvious that it consists of agglomerations of stars which have often fairly well defined boundaries; the stars here are much thicker than outside the girdle.

**Rowledge*, Sept., 1904, p. 220.

galactin (ga-lak'tin), n. [Gr. $\gamma \dot{\alpha} \lambda a$ ($\gamma \dot{\alpha} \lambda \alpha x\tau$ -), milk, + - $\{n^2\}$] An amorphous substance, $C_6H_{10}O_5$ (a-galactin), which is obtained from the seeds of certain legumes. It is strongly destrorotatory and yields galactose and a non-crystallizing sugar upon hydrolysis with dilute acids. It is possibly identical with gelose.

galactite, n. 2. A glucoside, $C_9H_{18}O_7$, found in the yellow lupine. It is crystallize, optically inactive, and melts at $140-142^\circ$ C. It yields galactose on hydrolysis.

cally inactive, and melts at 140-142° C. It yields galactose on hydrolysis.
galactoma (gal-ak-tō'mā), n.; pl. galactomata (-ma-tā). [NL., < Gr. γάλα (γαλακτ-), milk, + -omā.] Same as galactocele.
galactometastasis (ga-lak'tō-me-tas'ta-sis), n. [NL., < Gr. γάλα (γαλακτ-), milk, + με-τάστασις, change: see metastasis.] Secretion of milk from some part other than the normal breasts. breasts.

 $\lambda a \kappa r - \gamma$, milk, + -one + -ic.] Derived from lactose.— Galactonic acid, a colorless acid, $C_6 H_{12} O_7$, crystallizing in needles. It is prepared from lactose (milk-sugar) on oxidation by means of bromine, and is a racemic mixture. Also called *lactonic acid*.

galactopathy (gal-ak-top's-thi), n. [Gr. $\gamma\dot{a}\lambda a$ ($\gamma\dot{a}\lambda a\kappa\tau$ -), milk, + $-\pi a\theta\epsilon u\dot{a}$, $\langle \pi\dot{a}\theta o\varsigma$, disease.] Same as milk-cure.

galactophore (ga-lak'tō-fōr), n. [Gr. γάλα(κτ-), milk, + -φορος, ζφέρειν, bear.] A galactophorous duct.

Both the galactophores, or glands, and the supportive areolar tissue develop rapidly.

G. S. Hall, Adolescence, L 420

galactoplania (ga-lak-tō-plā'ni-ā), n. [NL, Gr. γάλα (γαλακτ-), milk, + πλάνη, wander-ing.] Same as *galactometastasis.

milk.

galactopyra (ga-lak-tō-pi'rä), n. [NL., ⟨Gr. γάλα (γαλακτ-), milk, + πυρ(ετός), fever, ⟨πιρ, fire.] Same as milk-fever.

galactoscope (ga-lak'tō-skōp), n. [Gr. yā\lambda (ya\lambda\kappa\tau-r), milk, $+ \sigma \kappa \sigma \pi e i \nu$, view.] A device for judging of the purity of milk. galactoside (ga-lak'tō-sid), n. [galactose + $-ide^1$.] A compound formed by the elimination of the elements of water from an alcohalous deleters (e^{-1}) .

hol and galactose. Methylgalactoside,

CH₃O.C.H.CH.OH.CHOH.CH.CHOH.CH₂OH,
from methyl alcohol and galactose, exists in two forms
called α and β. The former is resolved into its constituents by the action of maltose or emulsin; the latter is

galactosis (gal-ak-tō'sis), n. [NL., < Gr. γαλάκ-τωσις, < *γαλακτοῖν, make into milk, < γάλα (γαλακτ-), milk.] Elaboration of milk by the

(yazakr-), mik.] kiaboration of mik by the lacteal glands.

galactotherapy (ga-lak-tō-ther'a-pi), n. [Gr. yáza (yazakr-), milk, $+ \theta \epsilon \rho a \pi \epsilon i a$, medical treatment.] 1. Treatment of the nursing infant by means of remedies given to the mother or wet-nurse and excreted in part in the milk.

2. Same as milk-cure.
galactotoxicon (ga-lak-tō-tok'si-kon), π. [NL., ⟨Gr. γάλα (γαλακτ-), milk, + τοξικόν, poison.]
A poisonous substance which has been found in motified milk. in spoiled milk.

in spoiled milk.

galactotoxin (ga-lak-tō-tok'sin), n. [Gr. γά-λα (γαλακτ-), milk, + τοξ(ικόν), poison, + -in² (see toxin).] A poisonous substance which has been found in spoiled milk.

galafate (gä-lä-fä'te), n. Same as *calafak.
galag (gä'läg), n. [Also galak; Chamorro name.] In Guam, the bird's-nest fern, λεοι-topteris Nidus. See *ekaha.—Galag-guaka (cattlefern), a name in Guam of a simple-fronded fern. Microsorium irioides, which grows on the ground in the forest. Also galak-guaka. Also galak-guaka

galagala (gä-lä-gä'lä), n. [Tagalog galagala. pitch.] A name in the Philippine Islands of Dammara Philippinensis, a coniferous tree

yielding dammar-resin. Also called dammar.

See Dammara and Philippine *dammar.
galah¹, galach (gä'lach), n. [Heb. galah.]
One whose hair is shaven, namely, a Roman

too, Cacatua roseicapilla.

A shricking flight of galahs, on their final flight, before they settled to rest.

F. Adams, John Webb's End, p. 191, quoted in E. [Morris, Austral English. galalith (gal'a-lith), n. [Gr. γάλα, milk, + λίθος, stone.] A trade-name for a plastic material, a substitute for horn or celluloid, made by heating the casein of skim-milk, to which various coloring-materials are added, with acetate coloring-materials are added. galalith (gal'a-lith), n. [Gr. $\gamma \dot{a} \lambda a$, milk, $+ \lambda i \partial o_{\zeta}$, stone.] A trade-name for a plastic material, a substitute for horn or celluloid, made by heating the case in of skim-milk, to which various coloring-materials are added, with acetate of lead or other metallic salts, and hardening by a solution of formaldehyde. Out of this material combs, handles for knives and forks, chessmen, buttons, and many other articles have been made. Sci. Amer., July 25, 1903, p.

galamai-amo (gä-lä'mī-ä'mō), n. [Tagalog galamai-amo, < "galamai, fingers or toes, + amo, monkey.] A climbing epiphytal plant, Schellera venulosa, which belongs to the Aralincess. It has 5-foliate digitate leaves with an amplexicaul sheath at the base, the leaflets pointed at both the base and the apex, and the flowers are arranged in terminal umbelled panicles. The wood, when inclosed in a box, exhales a fragrant odor. The leaves in the form of an infusion are used as a remedy for skin-diseases and for bathing women after childbirth. Also called lima-lima. galangal, n.—Edible galangal, the rush-nut or grassnut, Cyperus esculentus.—Lank galangal, C. stri-



Lank Galangal (Cyperus strigosus).

, entire plant; I, a spikelet; C, an achenium, showing style and gmas. (From Britton and Brown's "Illus, Flora of the North-States and Canada,")

galang-galang (ga-läng'ga-läng'), n. A original Australian name for any cicada.

original Australian name for any cicada.

galangin (ga-lang'gin), n. [galanga + -in².] Galin-Paris-Ohevé system. Same as Chevé
A light-yellow crystalline compound, C₁₅H₁₀
O₅H₂O, melting at 214-215° C. It occurs, together with camphorid and alpinin, in galangal-root. It is possibly a,1,3-trihydroxyflavone.

galant (gā-lon'), a. [F.: see gallant.] In music,
applied to a method of instrumental composition in which the number of parts or voices
in the harmony varies freely according to the
tonal effect desired, without any consistent

family Galcriidæ.

Galin-Paris-Ohevé system. Same as Chevé
*system.

Salipedine (ga-lip'e-din), n. [NL. Galipe-a,
syn. of Cusparia, + -(i)d + -ine².] A crystalline alkaloid, C₁₀H₁₉NO₃, found in Cusparia
(Angostura) bark. It melts at 110° C.

galipeine (ga-lip'ē-in), n. [Galipe-a + -ine².] An alkaloid, C₂₀H₂₁NO₃, found in Cusparia
it crysin the harmony varies freely according to the
tonal effect desired, without any consistent

in the harmony varies freely according to the tonal effect desired, without any consistent effort to treat every tone as belonging to an independent and continuous voice-part, as in the older contrapuntal style.

the older contrapuntal style.

galanterie (gä-lon-te-re'), n. [F.: see gallantry.] In music: (a) An embellishment or grace.

(b) A style of composition or of performance in which embellishments abound. (c) In contrapuntal writing, a style which disregards strict rules. The term was most used in the eighteenth century, when the modern views of musical structure were superseding the older ones.

Galax, n. 2. [l. c.] The plant Galax aphylla, known also as galaxy and beetle-weed. Because of its persistent shining leaves galax is gathered in large quantities and sold by florists for ornamental purposes.

Galaxy, n. 3. [l. c.] Same as *galax, 2: a

Galaxy, n. 3. [l. c.] Same as $\star galax$, 2: a play upon that name.

gale², n., 1. Gales are classified as moderate, fresh, strong, and whole gales. See Beaufort *scale.—Straight-line gale, a long-continued gale from the same direction; a derecho; a gale that is due to a vertical rather than to a horizontal circulation of the wind; a gale that blows straight out, or nearly straight out, from a region and not around it.—Tail of a, gale, the strong wind at the

end of a whole gale at sea.—**Topgallant gale**, a gale in which the old-fashioned English man-of-war can carry topgallantsails, such as force 7, a moderate gale, or force 8, a fresh gale, on the Beaufort scale; a gale of about forty or fifty miles an hour.

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Catholic priest. The term is now applied by Jews to all Gentile clergymen.

galah² (ga-lā'), n. [Aboriginal Australian name.] The Australian rose-breasted cockatoo, Cacatua roseicapilla.

In the survey is namely, a roman increment of the wind, or to outstrip another vessel in sailing: generally with away. [Obsolete.]

gale³, n.—Fern or fern-leaved gale, the sweet-fern, Comptonia perggrina.

galeeny (ga-lē'ni), n. [Also galliney, galiny, galiny; \langle Sp. gallina morisca, the guineafowl, \langle L. gallina, a fowl.] A guinea-fowl. [Prov. Eng.]

galempong, galempung (ga-lem'pong), n.



Galempong. In the Metropolitan Museum, New York.

[Javanese f] A Javanese musical instrument of the zither class, with from ten to twenty-

of the zither class, with from ten to twenty-five strings.

Galena black. See *black.

Galenical², a. II. n. Any preparation made from vegetable substances by simple physical means, as by infusion, decoction, and percolation, as opposed to chemical methods. Sci. Amer. Sup., Jan. 24, 1903, p. 22631.

Amer. Sup., Jan. 24, 1903, p. 22631.

galenochemist (gā-lē'nō-kem'ist), n. One who manufactures and uses both galenical and chemical remedies. [Obsolete.]

galenoid (gā-lē'noid), n. [galena + -oid.] A trigonal trisoctahedron, a form whose faces often occur on modified crystals of galena.

Calen's handage. See *bandage.

galer (gā'ler), n. [Also galor; < gale4 + -er2.]

A collector of gale or manorial duty; also, an agent for the letting of mining licenses. [Prov. Eng. (Gloucestershire).]

galeriid (gal-ē-rī'id), n. and a. I. n. A mem-

gosus, a common polymorphous American species ranging galeriid (gal-ë-ri'id), n. and a. from Maine to Texas.

ber of the lepidopterous family Galeriidæ.

II. a. Of or belonging to the lepidopterous

family Galeriidæ.

galipine (gal'i-pin), n. [Galip-ea+-ine².] Same as *galipeine.
gall², n. 6. A long space without weft in a piece of cloth.

gall², n. G. A long space without weft in a piece of cloth.
gall³, n.—Aleppo gall, an oak-gall which comes from Persia and the East Indies by way of Aleppo. It contains from 55 to 60 per cent. of tannic acid and about 4 per cent. of gallic acid. It is valued in dyeing as a mortains from 55 to 60 per cent. of tannic acid and about 4 per cent. of gallic acid. It is valued in dyeing as a mortain to relight and bright shades on cotton and silk because of the comparatively small amount of coloring matter it contains.—Artichoke-gall, an oak-gall of European distribution occurring in Quercus pedunculata and Q. sessilitora and resembling a small artichoke. It is made by the cynipid Andricus pilosus.—Bullet gall, an American cynipid gall resembling a bullet, at tached to the smaller twigs of oaks in the northeastern United States and produced by the gall; fly Holcapus globulus.—Eglantine gall. Same as bedegar.—French gall, an oak-gall of inferior quality lin; the amount (from 20 to 30 per cent.) of tannic acid it contains.—Indian galls, the unripe pods of Acacca scorpioides. They are used for tanning.—Multicellular gall, a gall containing a number of cells each inhabited by a larva, as the pithy blackberry, gall which occurs on the stems of the blackberry, each gall containing many cells of the larva of the cynipid Diastrophus nebulosus.—Seed-like blackberry-gall, a very small gall occurring in belt-like clusters about the canes of the blackberry,.—Turkish gall, an

oak-gall valued, in dyeing, for the tannin matter it contains.

— White galls, the unripe fruit of Phyllanthus Emblica. See myrobalan and Phyllanthus.
gall⁴ (gâl), n. A small silver coin of Cambodia,

worth about fourpence.

gallacetophenone (gal-a-sē-tō-fē'nōn), n. [gall-(ic) + acet(ic) + phen(yl) + one.] A pale yellow powder, CH₃.CO.C₆H₂(OH)₃, known commonly as alizarin yellow C: employed in dermatology

Ballactucon (ga-lak'tū-kon), n. [gall(ic)² + L. lactuca, lettuce, + -on.] A colorless, tasteless, non-poisonous crystalline compound, $C_{14}H_{24}O$, melting at 296° C. It is extracted from French lactucarium, derived from Lactural Lacture (Lacture Lacture) tuca altissima

gallamine (gal'a-min), a. (gall(ic)² + amine.]
Derived from gallic acid and ammonia.— Gallamine blue. See *blue.
gallanil (gal'a-nil), a. [gall(ic)² + anil(ine).]
Formed by the action of aniline and certain related compounds upon gallic acid. Also gallanil. lanilic.—Gallanil green, indigo, violet. See ★green1,

lantic.—Gallanil green, indigo, violet. See *green1, etc.
gallanilic (gal-a-nil'ik), a. Same as *gallanil.
gallanilide (gal-an'i-lid), n. [gall(ic)² + anil(ine) + -ide.] A colorless crystalline compound, C₆H₂(OH)₃.CO.NH.C₆H₅.2H₂O, formed by the action of aniline on gallic acid. It melts at 207° C. and is used as a food-preservative. For this purpose it is superior to salicylic acid, because the toxic dose is much higher on account of its alight solubility. Also called 3,4.5-trihydroxybenzanilide.
gallanol (gal'a-nōl), n. [gallan(ilide) + -ol.] Same as *gallanitide.
gallazin (gal-az'in or ga-laz'in), n. [gall(ic)² + azin.] A mordant coal-car color of the oxazin type, prepared by the action of one of the β-naphthol-sulphonic acids upon gallocyanine. It dyes chromium-mordanted wool an indigo blue shade.

an indigo blue shade.
gall-backed (gâl'bakt), a. Said of a horse
whose back has been galled by an improperly

fitting saddle

gallberry (gâl'ber-i), n.; pl. gallberries (-iz).
The inkberry, llex glabra, of the southern United States.

Gallberry (Ilex glabra), while frequent in land that is too heavy to meet the requirements of truck-farming, is occasionally common on high-grade soils.

Kearney, Contrib. National Herb., V. 479.

Gallberry land, a local name for a type of land near the Dismal Swamp which in its natural state bears a growth of gallberry. The soil is somewhat rich in organic matter, therefore black, and is underlain by clay. Rearney. galled, p. a. 3. Worn away by washing; hence, sterile: said of land. gallery, n., 5. (b) By extension, any company or group of interested spectators, as at a golf-match: a forced use. (c) Specifically, in écarté, spectators who are betting on either player and are allowed to offer suggestions. player and are allowed to offer suggestions.—

11. A veranda; a piazza. [Canadian-French.]

—12. In a lamp-burner, the ring which supports the lamp-shade.—Infiltration gallery, an open trench or covered tunnel constructed in such a manner as to receive percolating ground or river waters.—To play to the gallery, to seek popular applause or good will.

gallery-deck (gal'e-ri-dek), n. See *deck, 2. galley-gun (gal'i-gun), n. Naut., an old-fashioned culverin. galley-packet (gal'i-pak'et), n. Naut., the mythical navy despatch-vessel which brings

naval news. galley-peppert (gal'i-pep'er), n. Naut., the ashes and soot which accidentally found their way into the food from the galley-range. [Naval slang.]

val slang.]
galley-press (gal'i-pres), n. 1. A form of printing-press made to take proofs of composed types on brass or zinc galleys, by platen pressure. In the United States better known as a proof-press. [Eng.]—2. A galley-proof. galley-slang (gal'i-slang), n. Naut., the vernacular of the galley; the idioms of the cooking-quarters on a man-of-war. galley-stoker (gal'i-stō'kèr), n. Naut., a worthless member of the crew: a skulker.

galley-stoker (gal'1-sto'ker), n. Naut., a worthless member of the crew; a skulker. galley-wasp (gal'i-wosp), n. [Also galliwasp; (galley + wasp. The name was prob. first applied to any large wasp that infested ships in West Indian ports. Compare gallinipper, a large mosquito, prop. *galley-nipper.] 1. In the British West Indian any large hem. In the British West Indies, any large bembecid wasp.

Then all, sitting on the sandy turf, defiant of galliwasps and jack-spaniards, and all the weapons of the insect host, partook of the equal banquet.

Kinysley, Westward Ho, xvil.

2. A West Indian lizard, Celestus occiduus.



Cranberry Gall-fly (Cecidomyia oxy a, male; b, larva; c, leaves showing work of larva; d, ovipositor of female; e, antennal structure of female. Enlarged.

gall-fungus (gal'fung 'gus), n. Any fungus which produces galls: particularly applied to the gall of cranberries and related plants, due to Synchytrium Vaccinii.

gall-gnat, n.—Guest gall-gnat, Cecidomyia albovit-tata, a species which breeds in large numbers between the leaves composing the so-called pine-cone willow-gall, which itself is made by another gall-gnat, Cecidomyia

gallhuminic (gal-hū-min'ik), a. Same as

*melanogallic.

Gallian² (gal'i-an), a. [For *Gallionian, < L. Gallio(n-) + -ian.] Of or pertaining to Gallio, the Roman proconsul of Achaia in the time of Paul the apostle: as, Gallian indifference. See Acts xviii. 14-17.

Gallicanism. See Gallicanism.
gallicin (gal'i-sin), n. [gallic² + -in².] A
derivative of gallic or tannic acid used as an
antiseptic dusting-powder, or in solution in
conjunctivitis.

gallinivorous (gal-i-niv'ō-rus), a. [L. gallina, hen, + vorare, eat.] That feeds on poultry: as, a gallinivorous animal.
gallinuline (ga-lin'ū-lin), a. [gallinule + -inel.] Pertaining to or resembling the gallinule

-inel.] Pertaining to or resembling the gallinule.
gallipeine, n. Erroneous spelling of *gallipeine.
gallisin (gal'i-sin), n. [gall(ic)² + iso(maltose) + -in².] In chem., a substance analogous to dextrine, obtained by fermenting with yeast a solution of commercial glucose or starch-sugar and adding to the residual liquid absolute a l sugar and adding to the residual injure absor-lute alcohol in excess. Gallisin is precipitated as a white powder, of faintly sweetish taste, hygroscopic, dex-trose by prolonged heating with dilute sulphuric acid. Probably identical with isomaltose, C₁₂H₂₂O₁₁. Sadtler, Handbook of Indust. Chem., p. 178.

gallisization (gal*i-si-zā'shon), n. Same as

gallisization (gal'i-sī-zā'shon), n. Same as *gallization.

gallium, n. The discovery of this chemical element was peculiarly interesting, as furnishing striking evidence of the soundness of the theoretical views, as to the relations of the elements, which led Mendelėjeff in 1889 to predict the existence of such a substance and give a description of the properties it would be found to exhibit: his prediction required scarcely any correction when the element was actually discovered.

gallization (gal- \bar{i} -z \bar{i} 'shon), n. [gallize + -ation.] The preparation of grape-juice for fermentation by adding water and sugar, usu-

or France who has settled in America, or has become an American (United States) citizen. Gallo-Briton (gal-ō-brit'on), n. A Briton born in France or of partly French parentage; a Briton who is favorably disposed to France. gallobromol (gal-ō-brō'mōl), n. [gall(ic)² + brom(ine) + -ol.] Dibromogallic acid. It is

used as an antiseptic and astringent. Gallo-Celtic (gal-ō-sel'tik), a. Belo the Celts of France. N. E. D. Belonging to

gallocyanine, n.—Brilliant gallocyanine. Same as *chromocyanine.

galloflavin (gal-ō-flav'in), n. [gall(ic)² + flavin.] A mordant coal-tar color prepared by the gentle oxidation of gallic acid. It dyes chromium-mordanted wool a yellow which is fast to light and soan.

[Ballocyanine, n.—Brilliant gallocyanine. Same gall-spot (gâl'spot), n. A sore spot produced by rubbing or chafing; a gall.

gall-tree (gâl'frē), n. In the West Indies, the bitter ash or quassia, Picrasma excelsa.

gallweed (gâl'wēd), n. Same as five-flowered *gentian.

antiseptic.

gall-of-the-earth (gâl'uv-whē-erth'), n. Any plant of the genus Nabalus, especially N. serpentarius. See Prenanthes. (b) Lactuca Floridana of the eastern United States. (c) Pterospora andromedea, more properly called

Gallo-German (gal-ō-jer'man), a. and n. I. a. Belonging to both France and Germany, or to

both French and Germans.

II. n. 1. One of the French race born or resident in Germany.—2. A descendant of parents on one side French and on the other

O(C₆H₂(OH)₂)₂CH.C₆H₄.CH₂OH, formed by the vigorous reduction of pyrogallolphthallic anhydrid (gallein). It rapidly darkens in air.

conjunctivitis.

Gallico-Anglian (gal'i-kō-ang'gli-an), n. An Galloman (gal'ō-man), n. [F. *Gallomane.] A Englishman who favors France or the French.

Gallico (gal'id), p. a. Naut., worried; harassed.

Gallomaniac (gal-ō-mā'ni-ak), n. [L. Gallus, a whale in torment from a harpoon or the attack of a swordfish; a frenzied whale.

gallin (gal'in), n. [gall-ic 2+-in2.] Same as interests and ways.

Galloman (gal'ō-man), n. [F. *Gallomane.] A Gallomaniac (gal-ō-mā'ni-ak), n. [L. Gallus, a Frenchman, + Gr. µavia, madness.] One who is very zealous for France and French interests and ways.

Galloman (gal'ō-man), n. [L. Gallus, a Frenchman, + Gr. µavia, madness.] One who is very zealous for France and French interests and ways.

gallon² (gal'on), n. [Ir. gallan-mor, \(\) gallan, branch, \(+ mor, great. \] The butter-bur or butterdock, Petasites Petasites.

gallonage (gal'on-āj), n. [gallon + -age.] Amount or capacity stated or reckoned in gal-

gallop, n.—Gallop rhythm, rapid succession of three heart-sounds followed by an interval of silence, resembling somewhat the canter of a horse.

galloper, n. 5. A mounted (or unmounted) losopher. despatch-bearer on a battle-field; an aide-de-galvanization, n. 2. Therapeutic application

synodus favens, of the Atlantic coast of the United States.
galley-west (gal'i-west), adv. A dialectal variation of collywest, collyweston. See *collyweston.
gall-fig (gâl'fig), n. The fruit of the fig-tree which contains the gall-flowers. See *gall-flower (gâl'flou'er), n. 1. A modified and infertile female flower of the fig-tree in which the fig-insect lives.—2. Same as *gallweed.
gall-fly, n.—Granberrygall-fly, aceddomyid dy, Cecidomyid avycoccana, which causes a bunching of the tip-become an American en American is settled in American as a Gallo-American (gal'o-tan'at), n. [gallotannia (gal-ō-tan'at), n. [gallotannia (gal-ō-tan'at), n. Same as tannic gall-flousen.—Hickory gall-louse, and proposed gallouse. Hickory gall-louse, and the flowers of the fig-tree which makes a large oval gall-flower (gâl'flou'er), n. 1. A modified and infertile female flower of the fig-tree in which the fig-insect lives.—2. Same as *gallweed.
gall-fly, n.—Granberrygall-fly, aceddomyid dy, Cecidomyid avycoccana, which causes a bunching of the tip-become an American who has settled in American as a Gallo-American (gal'ō-tan'āt), n. [gallotannia (gal-ō-tan'āt), n. Same as tannic gall-duna.—Hickory, gall-louse, proposed gall-duna.—Hickory gall-ouse, and the flowers, and gall-duna.—Hickory gall-maker, a cynipid gall-fly, Diadrophus turyidus, which makes a large oval gall-fly and the fig-tree in which the fig-insect lives.—2. Same as *gallweed.
gall-fly, n.—Granberrygall-fly, aceddomyid dy, Cecidomyid avycoccana, which causes a bunching of the tip-become an American gallouse.—Hickory gallouse.—Hickory gallouse.—Hickory gallouse.—Hickory gallouse.

Galloudianus, C Galloudian (gal-ō-tan'āt), n. Same as tannic gall-duna.—Hickory.

Galloudianus, C Galloudian (gal-ō-tan'in), n. Same as tannic gall-duna.—Hickory gallouse.

Galloudianus, C Galloudian (gal-ō-tan'in), a. and n. [N].

Galloudianus, C Galloudian (gal-ō-tan'in), a. and n. [N].

Galloudianus, C Galloudianus, C Galloudianus, C Galloudianus, C Galloudianus, C Galloudianus, C Galloudi

decile gallows, n., 2. Specifically, on the great sheep-raising stations of Australasia, a high wooden frame on which the carcasses of butchered cattle or sheep are suspended; a meat-gallows. E. E. Morris, Austral English.

gallows-tool (gal'oz-töl), n. A clock-maker's rest on which work is held while it is filed. [Rare.]

chromium-mordanted wool a yellow which is fast to light and soap.

In which are found several of the larvæ. The larva is known as the tip-worm.—Parasitic gall-fly, any member of the subfamily Figitinæ of the hymenopterous gall-fly family Cymipidæ.

Salloformin (gal-ō-fôr'min), n. [gall(ic)² + form(aldehyde) + -in².] A condensation-product of gallic acid and hexamethylene tetramine, which produces galls: particularly applied to the gall of cranharries and related plants due to formaldehyde. It is used as an antiseptic.

Same as five-flowered *gall-weevil (gâl'wē'vil), n. A beetle whose larvæ produce galls.—Cabbage gall-weevil, an formaldehyde which readily decomposes with the formation of formaldehyde. It is used as an antiseptic.

gallwort (gâl'wert), n. The common toad-flax, Linaria Linaria: so named from its bitterness. It is used as an unofficial remedy for dropsy, jaundice. and cutaneous eruptions.

Galoisian (ga-loi'si-an), a. Pertaining to or named for the French mathematician Evariste

See *corpus, *equation.
Sealois (ga-lon'), n. [Sp.: see gallon.] A
Spanish-American measure of capacity, equal,
in Porto Rico, to 3.785 liters, or one United galon²

States gallon.
galop, v. i. To dance the galop. See galop,

Acts xviii. 14-17.

Perhaps even the official mind would be stirred to desert its attitude of Gallian indifference.

Lancet, April 4, 1903, p. 983.

galliard² (gal' yard), n. [Cf. galliard¹.] A term used in northern England for a sandstone or grit of particularly close and uniform texture.

Gallicanist (gal'i-kan-ist), n. One who upholds Gallicanism. See Gallicanism.

Gallicin (gal'i-sin), n. [gallic² + -in².] A derivative of gallic or tannic acid used as an antisentic dusting-powder. or in solution in galloth thelia an hydrid (gallein). It rapidly

Gallon-Greeks (gal-ō-grē'shanz), n. pl. Same as "Gallo-Greeks".

Gallo-Greeks (gal-ō-grēks'), n. pl. [L. Gallo-dreeks of Gallic people who settled in the larger 'Greece' of Asia Minor called from them Gallogræcia or Galatia. Holland, tr. of Pliny, I. 221. N. E. D.

gallol (gal'ol), n. [gall(ic)² + -ol.] A colorless crystalline compound, formed by the vigorous reduction of pyrogenus. Galtonia differs from Hyacinthus chiefy in genus. Galtonia differs from Hyacinthus chiefly in having more numerous and flattened seeds. There are two species, both South African. G. candicans (Hyacinthus candicans of Baker) is a fine hardy bulbous plant bearing an ascending raceme or spike of drooping white fragrant flowers. It is also sometimes grown under

glass.
Galtonian (gâl-tō'ni-an), a. [After F. Galton.]
Of or pertaining to Francis Galton, an English scientist, or to his theories regarding the question of inherited characters.
Galton's anticyclonic law. See *law!.— Galton's curve. Same as Quetelet's *curve.—Galton's law of ancestral inheritance. See ancestral *inheritance* (a).—Galton's method, *weights. See *method, *weights.

galty (gal'ti), a. [Also gaulty; < galt1 + -y1]
Marked by the presence of galt: of the nature of galt or stiff blue marly clay: as, galty

lands; a galty place.

galv. An abbreviation (a) of galvanic; (b) galv. of galvanism.

skilled in galvanism: as, a galvanistical phi-

of the constant electric current by means of the active electrode passed slowly to and fro over the surface.

galvanochemical (gal'va-nō-kem'i-kal), a.
Relating to the chemical action of the galvanic current.

This treatment of stricture depends for its success chiefly upon the action of the electricity, which causes galvano-chemical absorption to take place—a process which is based upon the electrolytic properties of the tissues of the human body.

Buck, Med. Handbook**, III. 76%**

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lating to both galvanic and faradic electricity. galvanometer, n.—Oscillation galvanometer, a form of receiver or detector for electric waves, as in wireless telegraphy, invented by Ewing.—String galvanometer, an instrument consisting essentially of a silvered quartz thread strethed like a string in a strong magnetic field. When the current is passed through the thread the latter is deflected perpendicularly to the direction of the magnetic lines of force, and the amount of the deflection can be measured by means of a microscope with a micrometer eyeplece. Used instead of the capillary electrometer in physiological research. galvanomotive (galva-nò-mō'tiv), n. Controlled as to motions by the action of the galvanic current: as a galvanomotive needle.

galvanic current: as, a galvanomotive needle. [Rare.]

galvanoplastically (gal'va-nō-plas'ti-kal-i), adv. By the galvanoplastic process. See galvanoplastic.

galvanoplastics (gal'va-nō-plas'tiks), n. Same as galvanoplasty or electrotypy. Jour. Soc. Chem. Industry, XII. 162.
galvanoplater (gal'va-nō-plā'ter), n. One who makes stereotype or electrotype plates by electrodeposition of metals from a solution of coalst the party. tion of a salt of the metal.

Serious poisonings, and even death, have in many instances resulted in this way [by absorption of potassium cyanid through slight abrasions] in photographers, galvano-platers, or by the handling of plate-polishing powders containing potassium cyanid.

Buck, Med. Handbook, IV. 785.

galvanoscopy (gal-va-nos'kō-pi), n. [galvanism + Gr. -σκοπια, ⟨σκοπειν, view.] 1. Employment of galvanism for diagnostic purposes.—2. De-

termination of the direction of a galvanic current by the galvanoscope.

galvanotactic (gal 'va - nō - tak 'tik), a.

[galvanotanis (-tact-) + -ic.] Same as *electrotactic.

galvanotaxis (gal'va-nō-tak'sis), n. [galvanism + Gr. $\tau \dot{a} \dot{\epsilon} \iota c$, disposition.] Same as ism + Gr. τάξις, *electrotaxis.

They [cases of unilateral directive stimulation] have been designated, according to the direction in which they occur in relation to the source of the stimulus, as positive or negative Chemotaxis, Phototaxis, Thermotaxis, Galvanotaxis, and so forth.

Encyc. Brit., XXXI. 715.

a large species of trypanosome (Trypanosoma theileri Laveran, 1902) measuring 50 microns in length by 3.5 to 4 microns in diameter. The mode of transmission is unknown. Like other trypanosomes, this parasite lives in the blood.

Details are given of the mode of growth and multiplica-tion of Tr. Theileri, the cause of the cattle disease known as Galziekte. Nature, Nov. 13, 1902, p. 46.

gam² (gam), n. [Origin obscure.] A tusk or large tooth. [Scotch.]
gam³ (gam), n. [OF. gambc, besides jambe, leg: see jamb.] A leg. [Slang.]
gamasoid, a. and n. [NL. Gamasoid-ea.] I. a. Resembling a mite of the superfamily Gamasoide or belonging to this group. soidea, or belonging to this group.
II. n. One of the Gamasoidea.

II. n. One of the Gamasoidea.

gamba², n.—Gamba bass, gamba major, bass
gamba, double gamba, in organ-building, a 16-feet
stop with the tone of a gamba.

gambade, n. 3. The leap of a horse.
gambang (gäm'bäng), n. [Javanese and Malay gambang.] A Javanese musical instrument
of the xylophone class, consisting of sixteen
strips of resonant wood or metal fastened
loosely on strings, and mounted on a concave
wooden box or frame. The wooden form is
called gambang kayu, the metal form gambang
aonaso. gongso.

Galvanochemical change, chemical change brought about by the passage of an electric current, as in the fluids or tissues of the human body.

Salvanochemical change, chemical change brought gamba-work (gam'bš.werk), n. 1. In organ-building, a collective name for the string stops, of which the gamba may be taken as a type. lating to both galvanic and faradic electricity.

—2. A form of violin-piano.
gambeer (gem-bēr'), v. t. [Appar. from an unrecorded noun *gambeer, < F. gambier, an iron hook.] To take fish with a gambeering-iron or mackerel-gaff; to gaff. See gaff¹.
gambeering-iron (gam-bēr'ing-i'den), n. A mackerel-gaff (which see, under gaff¹).
gambette (gam-bet'), n. In organ-building, a

4-feet stop with the tone of a gamba. Gambia rubber. See *rubber.

gambine (gam'bin), n. $[gamb(oge) + -ine^2.]$ A name given to several mordant coal-tar colors of the nitroso type. They all dye chro-mium-mordanted wool brown and iron-mormum-mordanted wool brown and iron-mordanted wool green.—Gambine B, a mordant coaltar color of the nitroso type, prepared by the action of nitrous acid upon dihydroxynaphthalene. Also called diozine.—Gambine B, a mordant coal-tar color of the nitroso type, prepared by the action of nitrous acid upon a-naphthol.—Gambine Y, a mordant coal-tar color of the nitroso type, prepared by the action of nitrous acid upon \$\text{8-naphthol}\$. Also called Alsace green J.—Gambine yellow. See *\text{suellow}\$. See *yellou

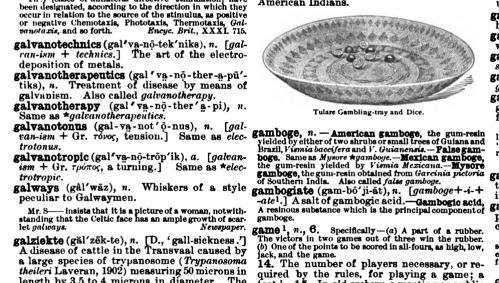
β-naphthol. Also called Alsace green J.—Gambine yellow. See *yellow.

gambit, n.—Cochrane gambit, one of the chief lines of defense against the Salvio gambit, namely, δ... P—B6. See gambit.—Double gambit, an attack in the King's Bishop's opening, where white sacrifices two pawns.—Gambit pawn. See *pawn².—Greeo gambit, an interesting though abandoned attack of the King's Knight's gambit.—King's gambit declined, a defense to the King's gambit merein the second player tries to evade the attack by refraining from capturing the offered gambit pawn.—King's gambit from capturing the offered gambit pawn.—King's gambit from capturing the offered gambit pawn.—King's gambit from same as King's *gambit declined.—King's Knight's gambit, 1 P—K4, P—K4; 2 P—K84, P×P; 3 Kt—KB3.—King's Book's Pawn's gambit, white continuing 3 P—KR4. Hardly ever played.—Macdonnell's double gambit, a continuation against an obsolete defense to the King's Bishop's opening, white sacrificing two pawns for the attack.—Philidor's gambit, 5 P—KR4 in the King's Knight's gambit.—Salvio-Cochrane gambit, a variation of the King's Knight's gambit, in which black plays 5... P—B6 instead of Kt—KB3 or Kt—KR3.

gambling-hell (gam'bling-hel), n. A gamb-

gambling-hell (gam'bling-hel), n. A gambling-house.

gambling-tray (gam'bling-trā), n. A large basketry tray used for tossing dice by North American Indians.



game 1, n., 6. Specifically—(a) A part of a rubber. The victors in two games out of three win the rubber. (b) One of the points to be scored in all-fours, as high, low, lack, and the game.

14. The number of players necessary, or re-

quired by the rules, for playing a game; a 'set.'—15. In old archery, a meeting or public quired by the rules, for playing a game; a 'set.'—15. In old archery, a meeting or public competition of archers.—All-in game, English billiards without restrictions as to *spot-stroke (which see).—Around-the-table game, in *mer. billiards, a game in which the successive holding of either red is restricted to thrice off its spot.—Bergen game, a game of dominoes in which two points are scored by the player who makes both ends of the line the same.—Brace game, a conspiracy between two players to cheat another; specifically, in *faro, an understanding between the dealer and the case keeper.—Call game. See *call 1.—Cattle and game disease. See *dasease.—Consultation game. See *consultation.—Doublet game, in *French billiards, a game in which caroms and pockets count, but the latter only in case the holed object-ball has first been sent to cushion.—Drawn game. See *daraun.—Duck-wing game, a variety of game-fowl, usually of handsome plumage, with a conspicuous bar across the wing suggestive of the mirror of a duck. The golden duck-wing it is white.—Game at odds, in *chess, a game in which the superior player removes one of his pleces from the board before the game is started in order to equalize the contest. The most common odds are those of the queen, of queen against rook or any other minor plece, of a rook, of a knight, of a pawn and move, and of a pawn and two moves. A player may also permit his opponent to make a stated number of moves before beginning play, upon the condition, however, that none of the pleces so moved be permitted to pass the fourth row. Other odds are to effect a mate only with a marked piece or pawn, not to check except when mating, etc.—Indian game, a

heavy-bodied, thinly feathered breed said to have originated in southern Asia or in some of the islands of the Malay Archipelago.—Long game, in golf, full wooden shots from the tee and through the green.—Long-handle game, in cricket, aggressive or hitting play, as contrasted with defensive. Hutchinson, Cricket, p. 71.—Open game, a game of chess in which both sides play their king's pawns to their respective fourth squares. All other games, or rather openings, are called close games.—Progressive games, euchre, whist, bridge, and other four-hand partnership games which may be played progressively. The principle is the same in all. The winning lady at each table goes to the next table north, her partner going to the next table south; while the losing couple left behind separate, so that each of the two players shall get a new partner for the next round. The winners at the head table do not move. Prizes are given for the players who win the greatest number of rounds.—Quarter game, in golf, short approach-shots to a putting-green.—Short game, in golf, short approach-shots to a putting-green.—Short game, in golf, approaching, or that part of the game, in playing on to a putting-green, which does not involve the use of a wooden club.—Spanish game, a combination of the old French billiard game of allied pockets and carons with a modified form of pin-pool. "This game is played in New Orleans, Mexico, Cuba, and California and in the South, and is played with two white balls and one red, and five pins placed similar to those in Pin Pool. The red ball is placed on the red-ball spot, and the first player strikes at it from within the balk semicircle. The game is made by winning hazards, carroms, and by knocking over the skittles or pins. It is usually played thirty-one points up." Amer. Hoyle, p. 491.—Square game, a game in which the cards are perfectly square, not having been trimmed for wedges, strippers, etc.—To develop one's game. See *develop.—Willing game, a parlor game in which the cards are perfectly square, not hav

prescribed for him.

game-cart (gam'kart),

n. A light carriage
originally used to carry a
dogs to the moors in
hunting and to bring
back the game: now
used for driving.

game-hole (gām'hōl), n. The sixty-first or last hole in a cribbage-board.
gamester, n. 6. pl. In billiards, contestants whose scores are exactly even.
gamesum, a. A simplified spelling of game-

gametange (gam'e-tanj), n. [NL. gametan-gium.] Same as gametangium. gamete, n. 2. A general term for the mature

germ-cells, either male (spermatozoon) or female (ovum), which unite to form the zygote.

The term "gamete" is now generally used as the equiva-lent of "germ-cell," whether male or female, and the term "zygote" is here used for brevity to denote the organism resulting from fertilisation.

W. Bateson, Mendel's Prin. of Heredity, p. 18.

game-tenant (gam'ten'ant), n. One who rents the right to shoot game on an estate; a shooting-tenant.

gametic (ga-met'ik), a. [gamete + -ic.] Of, pertaining to, or by means of gametes or germcells; gametál.

The term Mendelian Principles is used in its widest sense, to include not merely the simple Mendelian phenomena of Dominance or Segregation, but the much more fundamental doctrine of gametic purity.

Biometrika, Jan. 1904, p. 1.

Gametic variation. See **arriation. gametically (ga-met'i-kal-i), adv. As regards gametes; as a gamete.

They show therefore that the albino cannot be said to be gametically pure in respect of its whiteness, but that in order to predict the character of its young a knowledge of its ancestry is necessary. Biometrika, Jam., 1904, p. 8

gametocyst (ga-met'ō-sist), n. [Gr. γαμέτης, γαμέτη (see gamete) + κίστις, bladder (cyst).] A unicellular structure, found in the algæ and

A unicellular structure, found in the alge and fungi, which produces only uninucleate gametes: distinguished from gametangium. gametocyte (ga-met'ō-sit), n. [Gr. γαμέτης, γαμέτη (see gamete) + κίτος, a hollow (a cell).] A gamete. Proc. Roy. Soc. (London), March 6, 1902, p. 78.

gametogenesis (gam'e-tō-jen'e-sis), n. [Gr. γαμέτης, γαμέτη, (see gamete), + γένεσις, origin, genesis.] In biol., genesis or origin from gametes, that is, from a sperm- and an egg-cell. Also gametogeny.

The central phenomenon in Mendellan heredity is segregation. The characters in simplest cases are treated as units in gameto-generis. In more complex cases there is resolution, sometimes also disintegration and imperfect segregation, leading to the formation of fresh units. The gametes bearing these units are produced in numerical

proportions which on an average are also definite, but as yet these proportions have only been determined in the simple cases.

Proc. Zool. Soc. London, 1903, p. 95.

gametogenic (gam'e-tō-jen'ik), a. Relating to gametogenesis; producing gametes or repro-

gametogenous (gam-e-toj'e-nus), a. Pertaining to or of the nature of gametogenesis; producing gametes: as, a gametogenous monont among Coccidia. See *monont.

The cytological changes in malignant growth resemble those exhibited by sporogenous or gametogenous tissues in plants and animals, in the occurrence of the form of nuclear division known as heterotype, as distinguished from the more usual homotype division.

Nature, Jan. 21, 1904, p. 286.

gametogeny (gam-e-toj'e-ni), n. Same as

reproduction of certain low forms of animal life.

gamma, n. intensity, equal to one hundred thousandth of a gilbert per second.

Gamma rays. See *ray1.

gammacism (gam'a-sizm), n. [Gr. γάμμα, gamma, + -c- + -ism.] Imperfect enunciation of g and other guttural sounds. Buck, Med. Handbook, VII. 435.

gamma-granule (gam'ä-gran-ūl), n. One of gamotropic (gam-ō-trop'ik), a. the basophilic granules observed in a certain marriage, + τροπικός, of or per the basophilic granules observed in a certain

form of leucocyte in cases of leucemia.

gamma-iron (gam'ā-i'ern), n. See *iron.
gammarine (gam'ā-rin), a. [Gammarus +
-inel.] Resembling or characteristic of amphipod crustaceans of the genus Gammarus.

gammaroid (gam'a-roid), a. [Gammarus + oid.] Resembling or pertaining to the genus Gammarus, or to the family Gammaridæ.
gammation, n. 2. An element in the anatomical structure of the head of the Devonian

fish Palæospondulus.

An important element having somewhat the form of an inverted "L" lies on each side, immediately behind the usual capsules, and was probably related to the eye, which was situated above it. . . In order to avoid as far as possible the introduction of hypothesis into description we propose to call it the "gammation" from its fancied resemblance to the Greek letter "F."

W. J. and I. B. J. Sollas, in Philos. Trans. Roy. Soc. [(London), 1904, ser. B, p. 274.

gammoning-fashion (gam'on-ing-fash'on), n. Naut., a lashing, the turns of which are crossed

in the style of gammoning.

gammoning-fish (gam'on-ing-fish). n. Naut.,

formerly a batten of wood on the top of the bowsprit over which the turns forming the gam-

moning were passed.

gammoning-knee (gam'on-ing-nē), n. Naut.,
a timber bolted to the stem below the bow-

sprit.

gamobium (ga-mō'bi-um), n.; pl. gamobia (-ä).
[Nl., ζ Gr. γάμος, marriage, + βίος, life.] The sexual or medusoid stage in the life of a hydroid jellvfish.

Gamobothridæ (gam-ō-both'ri-dē), n. pl. [NL.]
A family of tapeworms of the order Tetraphyl-A family of tapeworms of the order Tetraphyl-lidea. They have the four phyllidia united by their lateral margins to form a single discoid or globular mass. The family contains the genera Lecanicephalum, Tylocephalum, and Discocephalum, and members inhabit the spiral intestine of sharks.

gamodesmic (gam-ō-des'mik), a. [Gr. γάμος, marriage, + δεσμός, a band.] In bot., having the component vascular elements of the stele

rused together.

gamodesmy (gam-ō-des'mi), n. [gamodesm-ic + -y³.] In bot., the condition of being gamodesmic.

gamodesmic.

gamogenic (gam-ō-jen'ik), a. [Gr. γάμος, marriage, + γενης, producing.] Of or pertaining to origin from a germ-cell during its maturation and fertilization. - Gamogenic variation.

See *variation.

Gamolepis (gam-ol'ē-pis), n. [NL. (Lessing, 1832), ⟨Gr. γάμος, marriage, + λεπίς, scale. The allusion is to the union of the involucral bracts.] A genus of plants of the family *\text{Asteracex}\$, related to *Senecio.* There are about 12 species, all South African. One of them, G. Tagetes, is now somewhat grown as a garden annual. It bears a profusion of bright-yellow heads, particularly in sunny, exposed places, having somewhat the character of the dwarf marigold.

gamomachia (gam-ō-mak'i-ā) n. [NL. ⟨G-c. H. Hughes, in Alien. and Neurol., Feb., 1903, p. 20.

gangliits (gang-gli-ī'tis), n. [NL., ⟨Gr. γάγ-γλιον, ganglion+titis.] Same as ganglionitis(a).

ganglioblast (gang'gli-ō-blast), n. [Gr. γάγ-γλιον, ganglion, + βλαστός, germ.] An embryonic cell which gives rise to a ganglionic cell.

Baldwin, Dict. of Philos. and Psychol., I. 404.

gangliocyte (gang'gli-ō-sīt), n. [Gr. γάγγλιον.

gamomachia (gam-ō-mak'i-ā), n. [NL., \langle Gr. $\gamma \acute{a}\mu o$, marriage, $+ \mu \acute{a}\chi \eta$, fight.] The hypothetical struggle for existence between the paternal

and maternal constituents of the fertilized ganglioid (gang'gli-oid), a. [gangli-on + -oid.] egg, and the destruction of one of them: assumed as an explanation of the resemblance ganglioma (gang-gli-o'mā), n.; pl. ganglion the offspring to one parent only, to the exclusion of the influence of the other.

| A tumor of a lymphatic gland.

gamomania (gam-ō-mā'ni-ā), n. [NL., ζ Gr. γάμος, marriage, + μανία, madness.] 1. The condition of a pistil in which the ovaries are more or less completely united and the respective styles and stigmata remain free. Syd. Soc. Lex. - 2. A form of insanity in which the sufferer often proposes marriage, despite

impossible conditions. Syd. Soc. Lex.
gamophagia (gam-ō-fā-ji-ā), n. [NL., ζ Gr.
γάμος, marriage, + -φαγία, φαγείν, eat.] The
hypothetical destruction of one of the parental

*gametoid (gam'e-toid), a. and n. [gamete + oid.] I. a. Relating to reproductive cells gamostele (gam'ō-stēl), n. [Gr. γάμος, marwhich do not become functional gametes: opposed to *gametogenic. Nature, Jan. 21, which the vascular bundles are fused together in some portion of their length. See *stele4*

gamostelic (gam-ō-stel'ik), a.

4. A proposed unit of magnetic gamostely (gam' \bar{o} -st \bar{e} -li), n. [gamostele + -y³.] ual to one hundred thousandth of In bot., the condition of being gamostelic.

gamote (gä-mō'tā), n. [Mex. Sp. camote, Nahuatl camotti, sweet potato.] In New Mexico, the parsnip-like root of an umbelliferous plant, Phellopterus montanus, which is used, when young, as an article of food by certain tribes of Indians.

marriage, $+\tau \rho \sigma \pi \kappa \delta c$, of or pertaining to a turn.] In bot., executed for the advantage of the fertilizing process: said of certain changes in the position of flower-stalks made only

gamot-sa-buni (ga-mōt'sä-bö'nē), n. [Tagalog gamot, medicine; sa, for; buni, ringworm.]

gamot-sa-bull (ga-mot sa-bo he), n. [lagalog gamot, medicine; sa, for; buni, ringworm.]
Same as *acapulco. [Philippine Is.]
gamp² (gamp), v. t. [Vaguely imitative; cf. champ¹ and gulp.] To eat greedily; gulp down. Scott. [Scotch.]
gamphrel (gam'frel), n. Same as gomerel. [Scotch.]

[Scotch.]

gamsigradite (gam-si-grā'dīt), n. [Servian Gamsigrad (see def.) + -ite².] A velvet-black variety of amphibole, containing manganese in considerable amount. The original specimen was obtained from Gamsigrad, Servia.

men was obtained from Gamsigrad, Servía.

gamut-way (gam'ut-wā), n. In old music, the
writing or noting by means of notes rather
than in tablature. See tablature, 4 (c).

gandi (gän'dē), n. [African.] A name given
in parts of Africa to the tsetse-fly, Glossina
morsitans. Geog. Jour. (R. G. S.), IX. 56.

gandul (gän-döl'), n. [Porto Rican.] The
dall or pigeon-pea, Cajan Cajan. See Cajan.
gang, v. II. trans. To arrange in gangs;
combine (several) into one set, to be operated

gang, v. H. trans. To arrange in gangs; combine (several) into one set, to be operated together: as, to gang saws, plows, or the like. See gang, n., 9.

The plows are usually ganged, two to one frame, and redrawn by three to five yoke of oxen.

Yearbook, U. S. Dept. Agr., 1900, p. 540.

12. Naut., a set of standing rigging. gang, n. 12. Naut., a set of standing rigging.—
Gang drilling-machine. See ★drilling-machine.
ganga² (gän' gä), n. [Sp., = F. gangue: see
gangue.] Something that can be acquired or
obtained without labor. [Spanish America.]
gan-gan, n. Same as ★gang-gang.
gang-gang (gang'gang), n. [Native Australian name]. An Australian cockatoo, Callocephalon galeatum, of a gray color with a red
crest. Also gan-gan.

gangliectomy (gang'gli-ek' tō-mi), n. [Gr. $\gamma \dot{\alpha} \gamma \gamma \lambda \iota o \nu$, ganglion, $+ \dot{\epsilon} \kappa \tau o \mu \dot{\eta}$, excision.] Excision of a ganglion.

That great operation on the nervous system, trigeminal inglicetony, for which Spiller and Frazier now propose vision of the sensory root within the cranium for tic

gangliocyte (gang'gli-ō-sit), n. [Gr. γάγγλιον, ganglion. + κίτος, a hollow (a cell).] A ganglion cell or nerve-cell. Baldwin, Dict. of Philos. and Psychol., I. 405.

ganglioma (gang-gli-ō'mā), n.; pl. ganglionmata (-ma-tā). [NL., \land Gr. yayyator, ganglion, +-oma.] A tumor of a lymphatic gland.
ganglion, n.-Abdominal ganglion. See **abdominat.-Auditory ganglion. See **abdominat.-Central ganglia of the brain, the optic thalani and corpora striata.-Compound ganglion, an paparentif double ganglion which results from compression of its central portion by the annular ligament of the wrist. See ganglion, 3 (a).-Ganglia of Bidder, two ganglia in the auricular groove of a frog's heart.-Ganglion ectomammillare, a small rounded eminence at the base of the brain, just in advance of the posterior perforated space. In many animals there are two of these prominences see on either side of the median line. Also known as the manmillary body, or corpus albicans.-Ganglion habenula, a collection of nerve-cells at the dorsimesal margin of the thalamus to which pass fibers from the pineal body. Also known as habenal, Abenula, and trie-num habenulæ.-Ganglion interpedunculare. Same as **corpus interpedunculare.-Ganglion is shown as the intercural of interpeduacular ganglion. Also known as the intercural or interpeduacular ganglion. Ganglion of Auerbach, sanglioninervous structure in the muscular coat of the intestine.-Ganglion of Searpa. Same as **janglion of Permak, a ganglion in the wall of the auricle of the frog's heart.-Ganglion of Searpa. Same as **janglion.-Ganglion.-Ganglion of Searpa. Same as **janglion.-Janglion.-Ganglion of Searpa. Same as **janglion.-Janglion.-Ganglion of the retina, a layer of nervecells in the retina.-Hypogastric ganglia, the pervous structures at the submucous coat of the intestine.-Maynert's ganglion. (a) In gastropois one of the ganglia between the cerebral and pedal ganglia. connected with the former by the cerebropleural and with the latter by the

ganglionervous (gang'gli-ō-ner'vus), a. Relatto the sympathetic nerve. Buck, Med. Handbook, I. 141.

ganglioplexus (gang"gli-ō-plek'sus), n. [NL.]
A plexus of nerve-fibers in a ganglion. Baldwin, Dict. of Philos. and Psychol., I. 405.

gang-loom (gang'löm), n. A loom which has a number of independent shuttles, as one for narrow fabrics, such as ribbons.

gang-mill (gang'mil), n. A milling-cutter built up of several separate cutters, either to form a long parallel mill or, more often, a mill for a complex outline. The use of gauge-mills has extended rapidly, since broad pieces of work (for which it would be impossible to make solid cutters to the requirel profiles) can be thereby machined at one traverse.

(ang-plow, n.—Vineyard gang-plow, a plow which has a frame supported by two wheels and carries three or sometimes four light plows: designed for plowing in vineyards, hop-fields, and orange and other orchards.

gang-press (gang'pres), n. A press which employs a gang of dies or punches, all being ploys a gaing of thes or punches, an being alike. The perforating press is a gang-press; also, a press having a series of dies, each different from the others and used to perform a series of operations upon the same blank, each operation serving to bring the object one step nearer to its finished form.

nearer to its finished form.

gangrene, n.—Anemic gangrene, gangrene which results from an obstruction to the blood-supply of the part. Therapeutic Gazette, XXVII. 50.—Decubital gangrene. Same as bed-sore.—Disseminated cutaneous gangrene, multiple gangrene, gangrene of the skin, of neurotic origin.—Multiple gangrene, gangrene of several different parts. Jour. Exper. Med., Oct. 1, 1900, p. 107.—Senile gangrene, spontaneous gangrene occurring in the aged, due to obstruction to the blood-supply.—Spontaneous gangrene, gangrene occurring without injury or other apparent exciting cause. Jour. Exper. Med., Oct. 1, 1900, p. 97.—Static gangrene, moist gangrene arising from obstruction to the venous circulation. gang-road (gang'rod), n. A road which lies along the water-front of a town. [Eng.]

There is no quay room except the gang-rood along there. Evidence Hull Docks Commission, p. 52, N. E. D. gang-spill (gang'spil), n. An anchor-windlass-gang-trimmer(gang'trim'er), n. A trimmerem-ploying more than two saws, each saw being suspended upon a swing-frame and all being controlled by levers to enable the operator to use any number or group of saws, within the capacity of the machine, in trimming stock of different lengths. All machines are fitted with automatic feed-chains to bring the stock to the

gangway, n. 4. In forestry, the inclined plane up which logs are moved from the water into a sawmill. Also called jack-ladder, log-jack, a sawmill. Also logway, and slip.

gangwayman (gang'wā-man), n. A man placed in charge of a ship's gangway when in nort.

ganocephalan (gan-ō-sef'a-lan), a. and n. I. a. Having the characters of the Ganocephala.

Th. n. One of the Ganocephala.

ganodentin (gan-ō-den'tin), n. [Gr. γάνος, brightness, + E. dentin.] The structureless enamel which coats the teeth of the selachian enamel which coats the teeth of the selachian enamel. A simplified spelling of guardian. The structure is a specific to nothing white or spirits. — a collaret (which see).

gardian, n. A simplified spelling of guardian. The structure is a specific to nothing white or spirits. — a collaret (which see).

gardian, n. A simplified spelling of guardian. The structure is a spirits of the strake next the keel. See cuts under *keel*1, 2.

gard, v. and n. A simplified spelling of guardian.

1. A dock, basin, or turnout on a river or the spirits of the strake next the keel. See cuts under *keel*1, 2.

gardian, n. A simplified spelling of guardian.

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1. A dock, basin, or turnout on a river or the spirits of the spirits of the strake next the keel. See cuts under *keel*1, 2.

gardian, n. A simplified spelling of guardian.

fishes or sharks.

ganophyllite (ga-nof'i-lit), n. [Gr. $\gamma\dot{a}\nu\sigma_{0}$, brightness, $+\dot{\phi}^{\nu}\dot{\nu}\dot{\nu}\sigma_{0}$, leaf, $+\cdot ite^{2}$. The name garde-du-corps (gärd-dü-kôr'), n. [F.] A bodyalludes to the luster of the cleavage folia.] A guard; a member of a body-guard. silicate of manganese, aluminium, and alkalis occurring in brown monoclinic crystals, also in foliated masses: found in Sweden.

ganpi (gam'pē), n. [Jap.] A shrub of the family Daphnaceæ, Capura canescens (Wikstramia canescens of Meisner), native to India, stramia canescens of Meisner), native to India, Indo-China, China, and Japan. In Japan it is considered an important fiber-plant and is sometimes cultivated for its bark. This is used—either alone or more generally mixed with the barks of the kozo and nitsumata—for the manufacture of the tough, thin paper especially valuable in letter-press copying-books.

ganta (gän'tä), n. [Philippine Sp., < Bisaya gantang.] In the Philippine Islands, a dry measure containing rather less than three quarts; also, a liquid measure containing rather more than three quarts.

Ganymede, n. 3. The third and largest satellite of the planet Jupiter.

gaogao (gou'gou), n. [Chamorro name.] In Guam and the Philippines, the starch derived from the tubers of Tacca pinnatifida, the arrowroot of the South Sea Islands. See Tacca.

gap-bed (gap'bed), n. A lathe-bed in which a

gap-bed (gap'bed), n. A lathe-bed in which a recess is cut just in front of the head-stock to permit of turning work larger than will swing over the guides.

gap-bridge (gap'brij), n. The piece or bridge which closes the gap in a gap-lathe bed. See *aap-bed.

gape-worm (gap-worm), n. A nematoid worm, Syngamus trachealis, the cause of gapes in fowls.

gar's (gar), n. [Also garr, gaar; a var. of gor, dial. form of gore'l.] 1. Mud; ooze; dirt; slime. [Shetland and Orkney, and north of Scotland.]—2. Vegetable slime found adhering to ships' bottoms.

garage (gar'āj; F. pron. gä-räzh'), n. [F. garage, keeping under cover, a place for keepgardener's-eye (gär'dn-erz-ī), n. The mullenmg (boats, wagons, automobiles) under cover,

(garer, keep under cover, keep, guard, var.
garden-fly (gär'dn-fli), n. Any one of several
of OF. garir, keep: see garret.] A station in
which motor-cars can be sheltered, stored, repaired, cleaned, and made ready for user also of OF. garir, keep: see garret.] A station in which motor-cars can be sheltered, stored, repaired, cleaned, and made ready for use; also, a place of private storage for a motor-car; a stable for motor-cars. [Recent.]

The club's stewards will take charge of the competing vehicles at the gate of the garage. Mark at the gate of the garage.

A station in species of the dipterous family Bibionidæ which breed commonly in the soil of gardens. Which breed commonly in the soil of gardens. Sarden-ground (gär'dn-ground), n. A plot of gradenia (gär'dn-in), n. [Gardenia + $-in^2$.]

A neutral substance, $C_{14}H_{12}O_{6}$, extracted from dikamali, the resinous exudation of Gardenia

The club's stewards will take charge of the competing vehicles at the gate of the garage.

Sci. Amer., March 28, 1903, p. 224.

garantee, garanty. Simplified spellings of guarantee, guaranty.

garbage-furnace (gär'bāj-fer"nās), n. A destructor; a furnace specially constructed for burning refuse and garbage. When properly designed and managed, such a furnace should need no other fuel than the refuse to be destroyed.

garbage-grease (gär'bāj-grēs), n. A trade-name for mixed fatty material collected from kitchen sinks, the grease-traps of sewers, etc.

It is not known that refineries in this country are as yet able to handle what is known as garbage grease, as the secret of the trade seems to be held abroad.

Census Bulletin 190, June 16, 1902, p. 5.

a public square.

garden-nail (gär'dn-nāl), n. used to fasten the branches of to walls; a wall-nail.

Barley, beans, lentils, and garbanzos grow very well in the fields in the greatest part of the province [New Cali-

fornial.

**Humboldt*, quoted in Bulletin 2, U. S. Dept. Agr., Div. [Veg. Pathol., 1892, p. 30.

garblage (gär'blaj), n. [garble + -age.] The

office or functions of a garbler.
garbling, n. 4. Rubbish found mixed with a
cargo which has been stowed in bulk.

garboard (gär'bōrd), n. In ship-building, one of the planks or plates of the bottom next to the keel on each side; also (in the plural), the whole of the garboard-strakes on both sides, garden-truck (gär'dn-truk), n. The products in the content of the planks or plates of the bottom next to the keel on each side; also (in the plural), the den-seated omnibuses.

10 open and card worten yarn waste, snoddy, etc., on a Garnett machine.

22 ogarden-tackle (gär'dn-tackle), n. A purchase rigged on the mainstay and used for taking in and hoisting out cargo.

or the part of the bottom surface covered by the garboard-strakes.

We have to go back to "Valkyrie II." to find a midship section that bears any similarity to the easy bilges and full garboards that distinguish "Shamrock III." so sharply from any of her immediate predecessors.

Sci. Amer., June 27, 1903, p. 480.

garde-du-corps (gard-du-not), n. [F.] A body-guard; a member of a body-guard.
garde-meuble (gärd-me'bl), n. [F., < garder, keep, + meubles, furniture, pl. of meuble, < L. mobilis, movable: see mobile.] A depository or museum in which valuable furniture, tapestries, and the like are kept.

garden. I. n.— Formal garden, a pleasure-ground laid out according to the principles of formal gardening. See formal *gardening.— Garden husbandry. (b) Farming carried on with as much care and neatness as gardening.—Rock garden, a garden, particularly a division of a botanic garden, adapted to the growth of alphne plants, succulents, and other plants fond of dry and rocky situations; a scientific rockery.—The Garden, the school of Epicurus, who taught in a garden. N. E. D.—Winter garden, a conservatory or greenhouse so arranged as to serve as a place of resort, with space for tables and seats.

II. 4. 2. Common: ordinary: as a garden.

II. a. 2. Common; ordinary: as, a garden en; garden proceedings. [Slang.]—Garden rehitecture. architecture

garden-apple (gär'dn-ap*1), n. A name rarely used for the paradise-apple; a cultural or domestic form of the common apple (Malus Malus, var. paradisiaca) of very small stature. See *doucin and *paradise, 7. garden-bed (gär'dn-bed), n.

See *doucin and *paradise, 7.
garden-bed (gär'dn-bed), n. 1. A bed of
flowers or vegetables in a garden.—2. A name
given to certain small areas covered by a
number of low parallel, artificial ridges some six
or eight inches high and from four to ten feet
apart, found in certain parts of the eastern and
central United States. Their significance is
not known with certainty.

garlic, n.—False garlic, a
liliaceous plant, Nothoscordium bivative, found in the
southern United States and
werlo. The genus is closely
related to Allium, but is free
times called yellow false garlic,
garlic, n.—False garlic, a
liliaceous plant, Nothoscordium bivative, found in the
southern United States and
remains a covered by a
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southern United States and
remains a covered by a
liliaceous plant, Nothoscordium bivative, fo not known with certainty.

garden-chair (gär'dn-chār), n. A chair for garden use; particularly, a kind of bath-chair (on wheels) for the use of ladies and invalids. fowls.

gap-stick (gap'stik), n. A pole placed across the entrance of a sorting-jack to close it when not in use.

(on wheels) for the use of ladies and invalidation gardeneraft (gär'dn-kraft'), n. The art of gardening, both from the utilitarian and from the utilitarian and from the esthetic point of view.

(on wheels) for the use of ladies and invalidation gardin-state of gardening, both from the utilitarian and from the esthetic point of view.

(on wheels) for the use of ladies and invalidation gardin-state of gardin-s

the esthetic point of view.

To enjoy and appreciate the Italian garden-craft one must always bear in mind that it is independent of fioriculture.

Edith Wharton, Italian Villas, p. 5.

2-12-b+ lowr dn-erz-dē-līt"), n.

Cratæva Tapia, one of Cratæva Tapia, one of

gardener's-delight (gär'dn-erz-de-līt"), n. Same as *gardener's-eye.
gardener's-eye (gär'dn-erz-ī), n. The mullen-

lucida. It crystallizes in lustrous, deep-yellow needles which melt at 163-164° C.

gardening, n.— Formal gardening, landscape-gardening of the kind adopted by the Italians of the Renaissance and later by the French in the time of Louis XIV. It is characterized by straight avenues, artificial lakes and grass-plots of geometrical outline, and many terraces, pavilions, and other architectural adornments.

gardenize (gär'dn-īz), v. t.; pret. and pp. gardenized, ppr. gardenizing. [garden + -ize.] To give a garden-like appearance to; improve by introducing garden features: as, to gardenize a public square.

A kind of nail used to fasten the branches of trees, vines, etc.,

Census Bulletin 190, June 16, 1902, p. 5. to walls; a wall-nail.

garbanzo (gär-bän'thō), n. [Sp.: see *calarance.] In Porto Rico and Spanish America
generally, the chick-pea, Cicer arietinum. See
chick-pea (with cut).

garden-plow (gär'dn-plou), n. A wheel-hoe.
garden-plow (gär'dn-ri), n. [garden + -ry.] The
office or work of a gardener; garden-work.

garden-seat (gär'dn-set), n. 1. A seat or bench in a garden.—2. A name jocosely applied to one of the seats for the accommodation of outside passengers which are arranged in parallel rows across the roof of some British omnibuses, facing in the direction of the journey. See knifeboard, 2, for another arrangement.

of a vegetable-garden, particularly when grown. for market.

garden-worm (gär'dn-werm), n. An earthworm.

gardevin, gardevine (gär'de-vin, -vin), n. [F. aardevin. \(\) garder, keep, \(+ vin, \) wine. \[] 1. A gardevin, ardevine (gar de-vin, -vin), n. [r. gardevin, (garder, keep, + vin, wine.] 1. A large bottle for holding wine or spirits.—2.

Commander Edwards, R.N., proceeded down the Canal, taking possession of the garcs and dredgers, while Captain Fitzroy, R.N., occupied Ismailia after slight opposition.

Encyc. Brit., XXVII. 708.

A railway-station.

garfish, n. (c) In Australasia, (1) Tylosurus ferox, called in Sydney 'long Tom'; (2) Hemiramphus intermedius; (3) a river-fish, H. regularis, of the family Hemiram-(3) a 1 phidse.

garg. An abbreviation of the Latin gargarisma,

gargle.

Gargas marl. See *marl1.

gargoyled (gär'goild), a. Ornamented with gargoyles.

Parvis and portal bloom like trellised bowers,
And the vast minster seems a cross of flowers!
But flends and dragons on the garpouled eaves
Watch the dead Christ between the living thieves.
Longfellow, in trans., Divine Comedy, I. Sonnet ii.

garial, n. Same as gharrial and garial.

garial, n. Same as gnarrial and gavide garigue, n. See *garrique.
garinding (ga-rin'ding), n. [Javan Malay garinding.] A Javanese oboe.
garlic, n.—False garlic, a
liliaceous plant, Nothoscor-[Javanese and

tard.

A chair for garlic-shrub, n. 2. The of bath-chair guinea-hen weed, Peti-

the trees known as garlic pear. See pearl and Cratæva.

Garmannia Garmannia (gar man' ië), n. [NL., named for Samuel Garman, an American ichthyologist.] A genus of small gobies found in the Pan-

ama region, having the False Garlic (Nothercornanterior half of the body diam bivalox), one third natural size.

The species is G. naradoxa.

maked and the posterior raisize.

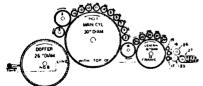
with large scales. The species is G. paradoxa.

garn (gārn), n. A dialectic form of yarn.

[North. Eng.]

and garnet, n.— Alizarin garnet, a mordant dyestuff related to anthraquinone, prepared by the reduction of antro-alizarin. It produces bluish reds with metallic mordants. It is used chiefly in calico-printing and woolding.—Carminaph garnet. Same as alpha-naph thylamine *red.

garnet-paper (gär'net-pa"per), n. Paper coated with finely crushed garnets held by glue: used like sandpaper for polishing. garnett (gär-net'), v. t. [Garnett (machine).]



1, main cylinder; 2, doffer; 3, fancy; 4, fancy-stripper; 5, 14, workers; 15, licker-in; 16, tumbler; 17-19, metallic feed-rolls; 20-24, breast-workers; 25, 26, fluted feed-rolls.

To open and card woolen yarn waste, shoddy,

and hoisting out cargo.

garnett-tooth (gär-net'töth), n. A form of saw-tooth cut in a steel band designed to be wound on the cylinders or rollers of a Garnett machine, used for carding thread-waste, shoddy, etc. Nasmith, Cotton Spinning, p. 132.

garnetz (gär'nets), n. [G. garnetz, < Russ. garnetsŭ.] A Russian dry measure equal to nearly three eighths of a United States peck.

C. Hering, Conversion Tables, p. 55.
garnishry (gär'nish-ri), n. [garnish + -ry.]
Ornaments; adornments; garnishing.

Of ancient times, whose eyes, calm as their flocks, Saw in the stars mere garnishry of heaven.

Browning, Paracelsus, iii. 183.

garr, n. See *gar8. garrique (gā-rēg'), n. [Southern F., < Pr. garriga = Cat. garriga, < Pr. garrics, OF. jarris, Cat. garrig, the holm-oak or ilex.] In the south of France, a tract of waste land covered with the holm-oak, Quercus Hex, and the Aleppo pine, Pinus hierosolymitana, and other scrub growth, and having a calcareous soil.

Often upon uncultivated lands, there called the garrigues, are seen long trains of ants forming two continuous lines hurrying in opposite directions, one going away from the nest, the other toward it.

Smithsonian Rep., 1896, p. 414.

garrison-hold (gar'i-sn-höld), n. Possession

of a place by garrisoning it.
garrison-town (gar'i-sn-toun), n. A town in which a garrison is maintained.

Garzonidæ (gär-zon'i-dē), n. pl. [Garzonia, the type genus, + -idæ.] A family of extinct marsupial mammals, of small size, which have no conspicuous diastema in the tooth series, and two or three of the premolars with double

roots. Ameghino, 1891.
gas, n. 6. Specifically, nitrous-oxid gas when used to produce anæsthesia, most commonly roots. Ameghino, 1891.

gas, n. 6. Specifically, nitrous-oxid gas when used to produce anæsthesia, most commonly by dentists.—Clayton gas, a mixture of sulphurous acid and other sulphur-oxid gases employed in disinfecting a ship's hold and clearing it of rats.—Dowson gas, combustible gas made by continuously passing steam mixed with air through red-hot anthractic or coke, the ignition of which is maintained by the supply of air: a kind of water-gas, which has been much used in gasengines. W. L. Dibdin, Public Lighting, p. 323.—Gasequation, spectrum. See *kequation, ***spectrum.—Generator gas, a mixture of gases intended for use as tuel, made from small coal, lignite, peat, sawdust, or other cheap forms of solid fuel, either by partial combustion with limited supply of air (in this case consisting essentially of carbon monoxid and nitrogen), or by such combustion with admission of steam, in which case the mixture, known as water-gas, consists essentially of carbon monoxid, hydrogen, and nitrogen. See gaseous **fuel.—Ground gases, gases of all kinds contained within the earth, as distinguished from the atmosphere outside its surface. Van Hise, U. S. Geol. Surv. Monographs, XLVII. S8.—Hydrocarbon gas, the mixed gases generated by the action of steam, or of steam and air, on substances which contain carbon and hydrogen, such as tar, oils, shale, etc. It contains large quantities of carbon monoxid, together with hydrogen and a number of the lower members of various hydrocarbon series.—Ideal gas, in thermodynamics, a gas which exactly conforms to Boyle's law, that is, which neither absorbs nor gives up heat during free expansion, and the internal energy of which is a function of the temperature alone. Also called a perfect gas. These conditions are not rigorously fulfilled in the case of any actual known gas.—Irrespirable gas, any gas the inhalation of which gives rise to laryngeal spasm.—Mond gas, generator gas prepared by one of the many special arrangements proposed for this purpose. Nature, Feb. 12, 1963, p. 354.

ccurs in bituminous coal-mines. Same as *fre-damp.—Power gas, gas used as a fuel for the generation of power; particularly, gas used as a fuel in internal-combustion engines.—Producer gas, a gas generated in a producer by blowing a jet of steam through an incandescent bed of coals; a fuel-gas or one rich in carbonic oxid. One pound of water-gas contains about 2,200 B. T. U., and is of about the following composition: CO 27, H 12, CH 2, C₂H₂ 1, CO₂ 3, N 55.—Roaster gas, in the manufacture of carbonate of soda by the Leblanc process, the gaseous hydrochloric acid which is given off from the brickwork roasters in which is carried out the second stage of the decomposition of common salt by sulphuric acid: distinguished from pan *spa, which is given off at a lower temperature in the first stage of the decomposition in pans, usually of cast-fron.

gas, v. t. 3. To treat with a gas or expose to the action of a gas, as is done with slaked lime in the manufacture of bleaching-powder.

G. Lunge, Sulphuric Acid, III. 456.—4. To

G. Lunge, Sulphuric Acid, III. 456. overcome or poison by means of the inhalation of gas.

gas-analysis (gas'a-nal'i-sis), n. In chem., the analysis of substances in the gaseous state, in which quantitative determinations are chiefly

made by volume, with the necessary attention to conditions of pressure and temperature.

gas-bacillus (gas'ba-sil'us), n. A species of Bacillus (B. aërogenes capsulatus) found by Welch in the blood-vessels of a patient with thoracic aneurism. It forms gas in culture-

gas-bath (gas'bath), n. In chem., a bath for the application of regulated temperature, either by an atmosphere of heated gas or by gas-burners.

which a garrison is maintained.
garrupa, N-Red garrupa, Sebastodes caurinus, a scorpenold fish found from Puget Sound to Sitka.
garter, n. 8. pl. Leg-irons or shackles.
[Sailors' slang.]
gartering (gär'ter-ing), n. A narrow fabric, as webbing, from which garters are made.
garter-robes (gär'ter-robz), n. The robes proper to be worn by Knights of the Garter.
garua (gä-rɔś'a), n. [Peruvian Sp.] The heavy fog along the coast of Peru on which plants depend for their moisture. It prevails from May to October up to a height of a hundred feet.

gas-blurners.
gas-blust (gas'blast), n. A gas fire which is forced by an air-blast.
gas-blust (gas'bot'l), n. 1. A retort.—2.
A cylindrical vessel of iron or steel for holding gases under pressure. Carbon dioxid, nitrous oxid, ammonia, chlorin, and other gases are sold in such containers. A needle-valve controls the release of the gas.
gas-blust (gas'blast), n. A gas fire which is forced by an air-blast.
gas-butle (gas'bot'l), n. 1. A retort.—2.
A cylindrical vessel of iron or steel for holding gases under pressure. Carbon dioxid, nitrous oxid, ammonia, chlorin, and other gases are trols the release of the gas.
gas-butlers.

gas-burette (gas'bū-ret'), n. In chem., a grad-uated glass vessel in which gases may be measured before or after treatment with chemical reagents in the course of analysis.

gas-calorimeter (gas'kal-ō-rim'e-ter), n. An apparatus for finding the heat-value of a known

quantity of gas; an apparatus for measuring the amount of heat a quantity of gas gives off when burned. See *calorimeter.

gas-cap (gas'kap), n. In elect., the cover of the inner globe of an inclosed arc-lamp, which protects the carbons from rapid combustion by reducing the access of eight. reducing the access of air.

gas-cavity (gas'kav'i-ti), n. Same as gas-pore. gas-chamber (gas'cham'ber), n. A device used in microscopy for studying organisms un-

der the influence of gases.

gas-coke (gas'kōk), n. Same as gas-carbon.

Gascon, n. 3. [l. c.] The common saurel or horse-mackerel, Trachurus trachurus.

gas-conductor (gas'kon-duk'tor), n. Any pipe for conducting gases or vapors: used specifically for the pipe leading from the mouth of a blast-furnace to the stoves.

A peculiarity of speech, manner, or character of the Gascons; a spirit of boastfulness or bra-

gas-cyst (gas'sist), n. A cyst containing gas, the product usually of a certain species of bacillus. Jour. Exper. Med., Oct. 25, 1900, p. 139.

gas-detector (gas'dē-tek'tor), n. An apparatus intended to give warning of the presence of fire-damp or dangerous gases in a mine.
gas-distributer (gas'dis-trib'ū-tèr), n. A piece of apparatus used in chemical laboratories, consisting of a central hollow block of brass with several chemical capacitations. with several stop-cocks, one for the admission of common illuminating-gas employed for heat-ing purposes, and two, three, or more by which this gas may be carried off to as many different lamps or burners.

gas-fired (gas'fird), a. Heated by combustion of gaseous fuel: as, a gas-fired boiler, a gas-fired furnace, etc. Groves and Thorp, Chem. fired furnace, etc. Technol., I. 539.

gas-firing (gas'fir'ing), n. A method of firing a furnace in which a gas or a liquid that has been vaporized is used as a fuel.

substitution motor.

gas-motor (gas'mō'tor), n. A motor or engine in which the piston is moved by the gas or

gas-fitter, n.—Gas-fitter's tongs, pipe-tongs.
gas-fitting (gas'fit'ing), n. 1. The occupation of a gas-fitter.—2. pl. The gas-fixtures and nous.] Of or pertaining to a gas, or to the

other appliances required in equipping a building for the use of illuminating-gas; also, the fittings for gas-pipes.
gas-forge (gas'fōrj), n. A small steel frame in-

closing fire-brick, of various shapes, and arranged with either a hearth on which the flames play or a narrow slot through which the flames pass in a thin sheet. It is used in annealing rods, forging cutlery, brazing small sheets of metal, and heating lathe-tools preparatory to

metal, and heating lathe-tools preparatory to hardening them.

gas-furnace, n., 1. The name is now applied to many different types of forges, ovens, and furnaces heated by natural gas, water-gas, or generator gas, and used in assaying, annealing, brazing, carbonizing, enameling, foying, japanning, melting, soldering, tempering, or welding metals, and also in warming buildings. Gas-furnaces are named from the work for which they are used: as the annealing gas-furnace, the brazing gas-furnace, etc. They consist commonly of a steel frame or box, lined with firebrick or other refractory material, and one or more gas-burners which deliver the gas, mixed with air, under the pressure of an air-blast.

gas-generator (gas'gen-e-rā-tor), n. 1. A gasgas-generator (gas'gen-e-rā-tor), n. 1. A gas-producer; a gas-retort; an apparatus for manufacturing gas either by distillation, as in a retort, or by separation, as in a producer, or by a chemical process, as in making hydrogen by mixing zine and sulphuric acid, thus forming zine sulphate and liberating hydrogen gas. See *gas-producer, 1.—2. An apparatus used in chemical laboratories to furnish a particular gas by the action of some liquid reagent upon a solid, so arranged that when the gas is no longer required its outflow may be cut off by a stop-cock, and its tension then serves to force the liquid out of contact with the solid material, thus arresting tension then serves to force the liquid out of contact with the solid material, thus arresting the generation of gas until it is again needed.

—Babo's gas-generator, a simple instrument for intermittently generating gases, as carbon dioxid, hydrogen sulphid, etc. By inclining the apparatus, acid or other liquid contained in one bulb is allowed to flow into another bulb containing the chemical on which it is to act. When gas is no longer needed, the instrument is returned to its normal position.—Kipp's gas-generator, a piece of apparatus used in chemical laboratories to furnish carbon dioxid, sulphured hydrogen, or other gas in limited quantity when needed, without waste of material when the gas is not being drawn off. It consists of three glass globes placed vertically one over another, and having a funnel-tube which ruis from the uppermost to the lowest of the three. The solid material to be acted upon is placed in the middle globe, the dilute acid to act upon it in the uppermost one, and the lowest serves to collect the spent liquor to be from time to time removed.

[388-grate (gas'grāt), n. A gas-stove burner

gas-grate (gas'grāt), n. A gas-stove burner having branches, or bars like those of a grate. with many small burners. It is used in water-

heaters, cake-griddles, etc.
gas-harmonicon (gas'här-mon'i-kon), **.

Same as pyrophone.
gashgabbit (gash'gab'it), a. Having a projecting chin. [Scotland.]
gas-holder, n. 2. A vessel of metal or glass.
used in chemical laboratories for the collecused in chemical laboratories for the collection and storage of gases.—Mitscherlich's gasholder, a glass vessel closed at top and bottom with appropriate stoppers. The mouthplece carries an exit-tube and a funnel-tube which reaches to the bottom. When filled with water, the upper stop-cocks remaining closed, the tubulus at the bottom may be opened without the water running out. Gas when introduced displaces the water. When the gas is collected the lower tube is closed and pressure is exerted on the interior by pouring water into the funnel-tube. The gas may then be drawn as desired.

gasket (gas'ket), v. t. [gasket, n.] To fasten with gaskets, as a sail to a yard.

gas-kiln (gas'kil), n. An oven or kiln which uses gas as a fuel.

gaskin (gas'kin), n. [Also gasken, gascoign. gascoigne, ult. 'of Gascony,' OF. Gascoigne: see Gascon.] 1. The sweet cherry, Prunus avium.—2. The common gooseberry. [Prov. Eng.]—3. The hinder part of a horse's thigh, extending from the stifle to the bend of the

gas-lamp, n.—Incandescent gas-lamp, any form of gas- or gasolene-burner combined with a mantle from the incandescence of which light is obtained.

gas-log (gas'log), n. A device resembling a piece (or several pieces) of fire-wood, used in a fireplace in which gas is burned.

gas-microscope (gas'mī'krō-skōp), n. Same as oxyhydrogen microscope.

gasmobile (gas-mö'bil), n. A trade-name of a form of motor-car in which gasolene is used as a source of motive power in an internal-com-

vapor phase of a substance: as, a gasogenous molecule.

There are liquidogenous and gasogenous molecules, which co-exist in proportions depending upon the temperature. Engineering, July 24, 1903, p. 109. perature.

gasolene, n. Its principal hydrocarbon constituents are hexane and heptane, C₆H₁₄ and C₇H₁₆, in varying proportions. It boils between 149 and 194 F. and gives off a vapor under atmospheric tension at all temperatures. The vapor of gasolene is 3.65 times as heavy as air. The volatile elements distil off on storage, unless the containing-vessels are very tight. Its calorific power is about 18,000 B. T. U. It is much used in the internal-combustion motors of motor-cars and motor-boats.—Gasolene engine. Same as **gasolene motor. Gasolene forge, a special type of gasolene torch having two flames.—Gasolene furnace, a small furnace, usually portable, which burns gasolene. It is used in melting solder, lead, etc., heating rivets and core-ovens, and for other purposes. It is made with vapor-burners and on the general principle of the gasolene torch.—Gasolene motor, an internal-combustion motor which uses a mixture of gasolene vapor and air as a source of motive power. See cuts at internal-combustion tempine.

gasolier (gas'ō-lēr), n. A chandelier in which

gasolier (gas'ō-lēr), n. A chandelier in which

gasometer, n.—Bunsen's gasometer, a graduated glass vessel for collecting, storing, and delivering gases. Mercury or water may be used to fill the vessel before the gas is introduced.

gasometrical (gas-ō-met'ri-kal), a. Same as gasometric.

gas-oxygen (gas'ok'si-jen), a. Producing heat by the combustion of a mixture of illuminating-gas and oxygen: as, a gas-oxygen flame, a gas-oxygen blowpipe. Also known as oxy-gas and oxy-coul-gas.

The scapstone can be melted in a gas-oxygen jet, and very fine fibres are easily drawn out from the clear bead thus obtained.

Nature, June 9, 1904, p. 132.

gaspereau (gas-pe-rō'), n. [Canadian F.; cf. Gaspereau (lakes), Gaspereaux (village), local names in Canada.] 1. The common alewife, Pomolobus pseudoharengus. [Maine and Canada.]—2. A name given in New Brunswick and parts of Canada to the herring, Clupea vernalis.

gaspergou (gas-per-gö'), n. [Origin not ascertained.] The fresh-water drum, Aplodinotus grunniens. [Canada.]
Gaspé series. See *series.
gas-pillar (gas'pil'ār), n. The short upright part of a gas-burner to which the burner is fixed.

part of a gas-burner to which the burner is fixed.

gas-pocket (gas'pok'et), n. A quantity of gas collected in a crevice or hollow. Such collections are likely to occur in the crevices in the charge of a blast-furnace, and, if composed of elements in the right proportions, will explode when ignited by the flames.

gas-producer (gas'prō-dū'ser), n. 1. A furnace in which combustible gas is produced, to be used as fuel in another furnace. Usually the gas is made by distilling carbonic oxid, which is done by heating anthractic or bituminous coal in a grate with the fuel-bed so thick that the upper or freshly charged layers are in an atmosphere of carbonic-acid gas from the lower combustion. When the carbon of these upper layers becomes hot enough for chemical reaction, it unites with CO₃, decomposing it into two parts of carbonic oxid or CO. If steam is blown into the sah-pit of such a producer the H₂O is decomposed, the hydrogen beling mechanically mixed with the carbon monoxid, and the oxygen combining with carbon, to be again broken up, as before, by reaction with more carbon. See producer *gas.

2. Same as *gas-generator, 2.

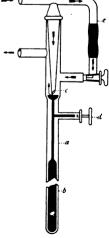
gas-pump (gas'pump), n. 1. A pump used for compressing gas.—2. A pump for raising water, or for any other service, the motive power of which is an internal-combustion engine.

gas-radiator (gas'rā'- 🔭 di-ā-tor), n. A gas-heater formed of verticalsheet-metal pipes arranged in the form of a steam-radiator.

of a steam-radiator.

gas-regulator.

Retchert's gas-regulator, an apparatus for regulating the flow of gas: used in connection with an oven whose temperature is to be kept constant, such as an incubator, a drying-oven, etc.; a form of thermostat. The instrument consists of a glass tube, a, of narrow bore, blown into a bulb, b, at one end and having one or one end and having one or more lateral tubes sealed more lateral tubes sealed to it near the other end. Mercury fills the bulb and part of the stem. When expanded by heat it partly closes the orifice, c, through which the gas passes. The extent to which this can occur is controlled by the side adjusting-screw, d. A S. — 2.



Reichert's Gas-regulator.

by-pass, ϵ , supplies enough gas, at all times, to keep a small flame at the burner, under the oven.

gas-ring (gas'ring), n. A work-bench gasolene heating-burner in which the jets of flame

lene heating-burner in which the jets of flame are arranged in a circle; a ring burner. gas-scale (gas'skāl), n. The scale of a gas-thermometer. Nature, April 24, 1902, p. 604. Gassendist (ga-sen'dist), n. [Gassendi+-ist.] A follower or supporter of Gassendi, a French metaphysician (1592-1655) who defended Epicureanism.

gasser (gas'er), n. 1. One who is engaged in gassing lace, cotton, yarn, etc., in order to remove the hairy filaments. See gassing and gassing-frame.—2. One who 'gasses,' or talks in an idle and empty manner. [Slang.]

Gasserian artery. See *artery. gassing, n. 3. The fumigating of fruit-trees by means of hydrocyanic-acid gas, to destroy insects. [Colloq.]

Scale insect enemies of citrus trees are controlled in two ways: either by spraying the infested plants with some liquid insecticide or by subjecting them to the fumes of hydrocyanic-acid gas, commonly designated as "gassing."

Yearbook U. S. Dept. Agr., 1900, p. 254.

4. The evolution of gas from the plates of a

4. The evolution of gas from the plates of a storage or secondary cell.

Classiot's wheel. See *wheel.

gas-spurt (gas'spert), n. A small raised heap occurring on the surfaces of some strata. It is conjectured to be due to the escape of gas from decomposing organic matter in the original sand or mud before complete solidification. Getkie, Text-book of Geol. (4th ed.), p. 645.

gaster (gas'ter), n. 2. In certain hymenoptarous insects such as ante (Econocide) the

terous insects, such as ants (Formicidæ), the abdomen exclusive of the stem, or pedicel. gasterasthenia (gas'ter-as-the ni-s, n. [NL., ζ Gr. γαστήρ, stomach, + ἀσθένεια, weakness.] Muscular or functional weakness of the stomach.

stomach.
gasterocomid (gas-te-rok'ō-mid), n. A member of the family Gasterocomidæ.

Gasteropelecus (gas'te-rō-pel'e-kus), n. [NL., ζ Gr. γαστήρ, belly, + πέλεκις, a two-edged ax.]

A generic name of certain carcinoid fishes of South America, notably G. maculatus.

Gasterostomatidæ (gas-te-ros-tō-mat'i-dō), n. pl. [NL., ζ *Gasterostoma(t-), assumed form of Gasterostomum, + -idæ.] A family of malacotylean trematodes, having the anterior malacotylean trematodes, having the anterior sucker only, the mouth on the ventral surface but not in the sucker, and the genital opening terminal. They are parasitic in the alimentary canal of fishes, and the cercaria is known as Bucephalus. Gasterostomum (gas-to-ros'tō-mum), n. [NL., < Gr. γαστηρ, stomach, + στόμα, mouth.] The



Gasterosiomum armatum, from the intestine of Cottus scorpio.

Ventral view (partly after Molin, partly after Levinsen).

b. genital pore; e, anterior sucker: f, vitellarium: g, simple sachike intestine; h, the left vitelline duct, which unites with its fellow, and opens by a median duct into the gern-duct: e, uterus: f, germarium; h, mouth, which has a position unique among the Trematoda, nearly in the middle of the ventral surface; l, the right testis; m, seminal vesicle; n, cirrus sac; e, cirrus or penis; m, excretory pore. (From Lankester's "Zoology.")

typical genus of the family Gasterostomatidæ. G. Imbriatum is parasitic in the perch Perca fuviatilis. Its eggs give rise to larve which make their way into the liver or gonad of Unio or Anodonta, destroying by their growth the reproductive gland. In the sporocysts formed in the mollusk arise the cercarise known as Bucephalus (which see). G. armatum is parasitic in Cottus scorpto. Von Siebold.

gasterotrichan (gas-te-rot'ri-kan), a. and n. Same as *gastrotrichan.

gasterotrichous (gas-te-rot'ri-kus), a. Same as gastrotrichous.

gas-thermometer (gas'ther-mom'e-ter), n. A thermometer in which the variation of volume or tension of a fixed quantity of dry gas indi-

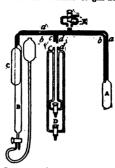
cates the temperature of the latter. Hydrogen, oxygen, nitrogen, and carbonic-acid gas-thermometers have been employed. The hydrogen gas-thermometer is considered as the normal, but all are reduced to the ideal gas-thermometer by theoretical formulas.—Compensated constant-pressure gas-thermometer, a gas-thermometer by means of which the volume of gas at different temperatures is determined under constant pressure; specifically, that devised by Callendar in 1887. "The instrument consists of two parts.—B, a burette connected by the capillary tube a with the thermometer-bulb A; and a bulb, C, also sealed to a capillary tube, b, which is of the same dimensions as, and is bent similarly to, a. The two parts of the instrument are connected, at c and d, to the two limbs of the differential manometer D. The readings are taken by measuring the volume of the gas, introduced through E, in the burette after adjusting the mercury till the pressure in the two parts of the apparatus, as indicated by the differential manometer, is equal." M. W. Travers, Exper. Study of Gases, p. 151.

Gases, p. 151.

Gases, p. 151.

Gases thermometer is constant-pressure (From Travers's "Study of Gases, p. 151.

Gases, p. 151.



gas-thread (gas'thred), n. A standard form of thread used on iron and brass tubes. It is finer than the standard bolt-thread and has a taper of 1 in 32 to the axis of the tube.

gas-tip (gas'tip), n. A perforated top or cap of lava or metal fixed to a gas-burner, through which the gas escapes as it burns, the shape of the opening in the tip governing the shape of the flame.

gastliness, n. A simplified spelling of ghastli-

gastly, a. and adv. A simplified spelling of ghastly.

Gastornithidæ (gas-tôr-nith'i-de), n. pl. [NL.,
Gastornis (-ornith-) + -idæ.] A family of extinct gigantic birds, indicated by bones from tinct gigantic birds, indicated by bones from the Eocene of France: sometimes considered as forming an order, the Gastornithes. The members of the group are believed to be more or less nearly related to the ducks and geese. gastradenitis (gas'tra-de-ni'tis), n. [NL., < Gr. γαστήρ (γαστρ-), stomach, + άδήν, gland, + -itis.] Inflammation of the glands of the stomach, especially when caused by acute

-tiis.] Inflammation of the glands of the stomach, especially when caused by acute poisoning with arsenic or phosphorus. gastræal, gastreal (gas-trē'al), a. [gastræa + -all.] Relating or pertaining to the gastræa stage of the embryo.

The comparative embryology of this [cœlom] cavity shows that originally in the most archaic vertebrates it was formed by the outgrowth of diverticula from the primitive gastræal cavity.

Rocyc. Brit., XXV. 397.

gastralium (gas-trā'li-um), n.; pl. gastralia (-ë).
[NL., < gastralis, gastral.] Same as *auto-gastralium.

gastrectasia (gas-trek-tā'si-ā), n. [NL., \langle Gr. $\gamma a \sigma \tau \dot{\rho} \rho (\gamma a \sigma \tau \dot{\rho})$, stomach, $+ \dot{\epsilon} \kappa \tau a \sigma \iota c$, extension.] Dilatation of the stomach. Also called gastrectasis.

gastrectasis (gas-trek'ta-sis), n. [NL.] Same ≠gastrectasia.

gastreum, n. Same as gastræum.

as *gastrectasia.

gastreum, n. Same as gastræum.

gastric, a.—Gastric mill, the thickened and calcified armature of the chitinous lining of the cardiac division of the stomach in certain Crustacea. In the crawfish, and in most of the higher Crustacea. In the crawfish, and in most of the higher Crustacea. In the crawfish, and in most of the higher Crustacea. In the crawfish, and in most of the higher Crustacea. In the crawfish, and in most of the higher Crustacea. In the crawfish, and in most of the higher Crustacea. In the crawfish, and in most of the most of the the state of the converging them upon the food and completing its mastication. Parker and Haswell, Zoology, I. 547.—Gastric neurasthenia, pouch, tetany. See *neurasthenia, etc.

gastricolous (gas-trik jolus), a. [Gr. γαστήρ (γαστρ-), stomach, + L. colere, dwell in.] Inhabiting the stomach: said of parasites.

gastriloquial (gas-tri-loj'kwi-al), a. [gastriloquism; ventriloquial.

gastritic (gas-trit'ik), a. [gastrit-is + -ic.]

Relating to or affected with gastritis. gastritis, n-Arthritic gastritis, gout of the stomach causing atrophy of the secreting glands.—Catarrhal gastritis. Same as gastric *xcatarrh.—Follicular gastritis. Hypertrophic gastritis, inflammation of the stomach—Glandular gastritis, inflammation of the stomach—Glandular gastritis, inflammation of the stomach eaused by the presence of a fungus.—Phlegmonous gastritis, an acute and severe form of inflammation involving chiefly the submucous coat of the stomach: often accompanied by the formation of abscesses.

gastro-adenitis (gas'trō-ad-e-nī'tis), n. Same

gastro-adenitis (gas'trō-ad-e-nī'tis), n. Same as *gastradenitis.

gastro-anastomosis (gas'trō-a-nas-tō-mō'sis),
n. [NL., ⟨ Gr. γαστήρ (γαστρ-), stomach, +
ἀναστόμωσις, anastomosis.] The establishment
of a communication between two portions of
the stomach which are separated by a constriction, as in hour-glass stomach.

gastro-anastomosis.

(γαστρ-), stomach, + στόμα, mouth.] Same as
*gastro-anastomosis.

An incorrect form of Gasteromy
gastromycosis (gas'trō-mī-kō'sis), n. [NL.,
(γαστρ-), stomach, + NL. genitalis, genital.]
(γαστρ-), stomach, + NL. genitalis, genital.]
(γαστρ-), stomach, + μίκης, fungastro-arthritis (gas'trō-ār-thrī'tis), n. [NL.,
(γαστρ-), stomach, + NL. genitalis, genital.]
(γαστρ-), stomach, + μίκης, fungastro-anastomosis.

Having the reproductive organs on the radial
canals, as in the Leptomedusæ. Proc. Zool. Soc.
London, 1903, II. 173.

γαστήρ (γαστρ-), stomach, + νοάφειν, write.] A device
gastro-anastomosis.

Relating to both the stomach and the panmouth.] Same as

γαστηρ (γαστρ-), stomach, + στόμα, mouth.] Same as

γαστηρ (γαστρ-), stomach, + στόμα, mouth.] Same as

γαστο-μοτήρ
(γαστρ-), stomach, + στομοτήρ
(γασ gastro-anastomosis (gas'trō-a-nas-tō-mō'sis), gastrogastrostomy (gas'trō-gas-tros'tō-mi), n. [NL., ⟨Gr. γαστήρ (γαστρ-), stomach, + η. [Gr. γαστήρ (γαστρ-), stomach, + γαστήρ αναστόμωσις, anastomosis.] The establishment of a communication between two portions of *gastro-anastomosis.

striction, as in hour-glass stomach.

gastro-arthritis (gas'trō-ār-thrī'tis), n. [NL., Gr. γαστήρ (γαστρ-), stomach, + ἀρθρῖτις, gout.] Gout of the stomach.

Gastrocampyli (gas-trō-kam'pi-lī), n. pl. [NL., Gr. γαστήρ (γαστρ-), stomach, + καμπίλος, curved.] In Hyatt's classification, that division or suborder of the ammonoid cephalopods in which the siphuncle is situated on the doror concave curvature of the whorls, the sal or concave curvature of the whoris, the shells laterally compressed, involute, and frequently ornamented with spinous processes, the septal sutures not being greatly unlike those of the simpler forms of the goniatites. The division includes only the old genus Clymenia and family over, $+ \nu \bar{\nu} \bar{\nu} \rho \nu$, nerve.] Increased activity of the stomach due to disorder of the nervesubly subdivided.

gastrocentrous (gas-trō-sen'trus), a. [Gr. γαστήρ, belly, + κέντρον, center.] Having vertebral centra formed by the growth of the pair of ossifications, known as interventralia, which are developed on the inferior face of the

The vertebree of the Reptilia and those of all other Amniota are gastrocentrous.

H. Gadow, Amphibia and Reptiles, p. 282.

Gastrocnemial ridge. See *ridge.
gastroccele (gas'tro-sel), n. [Gr. γαστήρ (γαστρ-),
stomach, + κοίλος, hollow.] In embryol., the
cavity of the archenteron in the gastrula;
the primitive digestive cavity of the young

embryo.

gastrocolostomy (gas'trō-ko-los'tō-mi), n. [Gr. γαστήρ (γαστρ-), stomach, + κόλον, colon, + στόμα, mouth.] Establishment by operation of a communication between the colon and the stomach.

gastrodialysis (gas'trō-dī-al'i-sis), n. [Gr. γαστήρ (γαστρ-), stomach, + διάλυσις, separation.] Sloughing of the mucous membrane of

the stomach

gastrodiaphane (gas-trō-dī'a-fān), n. [Gr. γαστρ (γαστρ-), stomach, + διαφανής, transparent: see diaphanous.] An instrument carrying an electric light, used in *gastrodiaphany

(when see) gastrodiaphany (gas'trō-dī-af'a-ni), n. [As gastrodiaphane $+ -y^3$.] Examination of the stomach by means of transillumination. A tube to which an electric light is attached (called a gastrodiaphane) is passed into the stomach, and the abdominal wall is then inspected in a dark room. Nature, Aug. 4, 1904 p. 316.

1904, p. 316.

gastrodidymus (gas-trō-did'i-mus), n.; pl.

gastrodidymi (-mī). [NL., < Gr. γαστήρ (γαστρ-), g

stomach, + δίδυμος, twin.] In teratol., a double

monster joined in the abdominal region.

gastrodisc (gas'trō-disk), n. [Gr. γαστήρ

(γαστρ-), stomach, + δίσκος, a disk.] The endoderm of the vertebrate embryo in the disco-g

gastrula stage, that is, when both the ectoderm and the underlying endoderm are spread out on the yolk in the form of a disk.

tween the stomach and the duodenum elsewhere than at the pylorus. Lancet, Aug. 29, 1903, p. 591.

gastro-enteralgia (gas'trō-en-te-ral'ji- \ddot{a}), n. [Gr. $\gamma a \sigma \tau h \rho$ ($\gamma a \sigma \tau \rho$ -), stomach, + $\dot{\epsilon} \nu \tau \epsilon \rho \sigma \nu$, intestine, + $\dot{\epsilon} \lambda \gamma \rho c$, pain.] Pain in both stomach and intestines.

gastro-enterocolitis (gas'trō-en'te-rō-kō-lī'- gastrology, n. 2. The art of cookery or of tis), n. [Gr. $\gamma a \sigma \tau \eta \rho$ ($\gamma a \sigma \tau \rho$ -), stomach, $+ \dot{\epsilon} \nu \tau \epsilon \rho \sigma \nu$, catering to the demands of the stomach.—3. tis), n. [Gr. γαστήρ (γαστρ-), stomach, + εντερον, intestine, + κόλον, colon, + -itis.] Inflammation of both large and small intestines and of the stomach.

gastro-enterostomy (gas'trō-en-te-ros'tō-mi), n. [Gr. γαστήρ (γαστρ-), stomach, + εντερον, intestine, + στόμα, mouth.] The establishment of a communication between the stom-

Eight cases were operated on for hemorrhage; in one an ulcer was excised and the patient died on the eighth day; in one an ulcer on the posterior surface was excised and a gastroenterostomy performed, the patient recovering; in six gastroenterostomy alone was performed and all recovered.

Med. Record, Feb. 28, 1903, p. 343.

Gastro-epiploic arteries, two arteries in the wall of the stomach, the right a branch of the hepatic artery, the left a branch of the splenic: their terminal branches anastomes.— Gastro-epiploic glands. See *yland.

supply

gastrohyponeuria (gas"trō-hī-pō-nū'ri-ā), n. [NL., ζ Gr. γαστήρ (γαστρ-), stomach, + ὑπό, under, + νεῦρον, nerve.] Diminished activity of the stomach due to disorder of the nerve-

gastrohysteropexy (gas'trō-his-te-rop'ek-si), n. [Gr. $\gamma a \sigma \tau h \rho$ ($\gamma a \sigma \tau \rho$ -), stomach, + $b \sigma \tau \ell \rho a$, uterus, + $\pi \bar{\eta} \xi \iota \varsigma$, fastening.] Operative fixation of the fundus of the uterus to the anterior abdominal wall, in order to correct a displacement of that organ.

ment of that organ.

gastro-ileal (gas'trō-il'ō-al), a. [Gr. γαστήρ (γαστρ-), stomach, + NL. ileum + -al.] Of or pertaining to both the stomach and the ileum. Gastro-ileal folds. See *\sidal.

gastrojejunostomy (gas'trō-jē-jū-nos'tō-mi), n. [Gr. γαστήρ (γαστρ-), stomach, + NL. jejunum + Gr. στόμα, mouth.] Establishment of communication between the stomach and some portion of the isignpum portion of the jejunum.

The stomach was enormously dilated and contained a large quantity of fluid. Anterior gastrojejunostomy was the operation selected. Lancst, Aug. 29, 1903, p. 591.

Gastrolepidotidæ (gas'trō-lep-i-dot'i-dō), n. pl. [NL., < *Gastrolepidotus, < Gr. γαστήρ, belly, + λεπιδωτός, scaled, scaly: see *Lepidotus.] A + λεπιδωτός, scaled, scaly: see *Lepidotus.] A family of stegocephalian amphibians having fully ossified vertebræ and basioccipitals, a ventral armor of elongated bony scutes, and teeth with infolded layers of dentin. The genera (Anthracosaurus, Loxomma, etc.) are of Carboniferous and Permian age.

gastrolienal (gas'trō-lī-ē'nal), a. [Gr. γαστήρ (γαστρ-), stomach, + L. lien, spleen, + -all.]

gastrolienal (gas'trō-lī-ē'nal), a. [Gr. γαστήρ (γαστρ-), stomach, + L. lien, spleen, + -all.]

gastrolithiasis (gas'trō-lī-thī'a-sis), n. [NL., ⟨ Gr. γαστήρ (γαστρ-), stomach, + λίθος, stone, + -iasis.] The formation of gastroliths and the morbid symptoms occasioned by their presence.

gastrolobin (gas-trō-lō'bin), n. [Gastrolo-gastroptosis (gas-trop-tō'sis), n. [NL., ⟨ Gr. γαστήρ (sas-trop-lī-kā'shon), n. [Gr. γαστήρ (γαστρ-), stomach, + E. plication.] In surg., an operation for reducing the capacity of a dilated or sagging stomach by plaiting the wall and retaining the plaits by sutures. Lancet, July 18, 1903, p. 149.

gastropodous, a. See gasteropodous.

gastropodous, a. See gasteropodous.

2. In the cœnosteum of the hydrocorallines like Millepora, one of the larger, sometimes tabulated tubes of the stomach.

gastropication (gas'trō-plī-kā'shon), n. [Gr. γαστήρ (γαστρ-), stomach, + E. plication.] In surg., an operation for reducing the capacity of a dilated or sagging stomach by plaiting the wall and retaining the plaits by sutures.

Lancet, July 18, 1903, p. 149.

gastropodous, a. See gasteropodous.

(γαστρ-), stomach, + L. lien, spleen, + -all.]

skeleton which lodge the nutritive polyps.

Castropsetta (gas-trop-set'ä), n. [NL., ⟨ Gr. γαστήρ, belly, + ψῆττα, a flounder.] A genus of deep-sea flounders found in the Gulf Stream.

gastrolienal (gas'trô-li-ô'nal), a. [Gr. $\gamma a \sigma \tau h \rho$ ($\gamma a \sigma \tau \rho$ -), stomach, + L. lien, spleen, + -all.]

same as gastrospienic. gastro-li-thi'a-sis), n. [NL., \langle Gr. $\gamma a \sigma \tau \rho \rho \rangle$, stomach, $+ \lambda i \theta \sigma c$, stone, + -i a s i s.] The formation of gastroliths and the morbid symptoms occasioned by their

rastrolobin (gas-trō-lō'bin), n. [Gastrolo-bium + -in².] A dark-colored glucoside con-tained in the leaves and young shoots of Gastrolobium bilobum.

gastrologist (gas-trol'ō-jist), n. [gastrolog-y+-ist.] 1. One who is versed in gastrology, or skilled in catering to the demands of the stomach.—2. A physician who devotes special attention to the diagnosis and treatment of discrete of the transh eases of the stomach.

The scientific study of diseases of the stomach and of their treatment.

gastrolysis (gas-trol'i-sis), n. [NL., \langle Gr., $\gamma a \sigma \tau h \rho$ ($\gamma a \sigma \tau \rho$ -), stomach, $+ \lambda b \sigma u$, loosening.] The act or process of freeing the stomach from abnormal adhesions to adjacent parts.

ment of a communication between the stomach and some portion of the intestine which is more or less distant from the pylorus.

Sight cases were operated on for hemorrhage; in one an ulcer was excised and the patient died on the eighth ing from the anterior abdominal wall; a form of epigastrius.

gastromenia (gas-trō-mē'ni-ā), n. [Gr. γαστήρ (γαστρ-), stomach, + μήνες, menses.] Vicarious menstruation from the mucous membrane of the stomach.

gastrometrotomy (gas" $tr\bar{o}$ -m \bar{e} - $trot'\bar{o}$ -mi), n.

for recording the movement during digestion.

gastrohepatitis (gas'trō-hep-a-ti'tis), n. [NL., (Gr. γαστήρ (γαστρ-), stomach, + ήπαρ (ήπατ-), liver, +-itis.] Simultaneous inflammation of both stomach and liver.

gastrohepatitis (gas'trō-hī-per-nū'ri-ā), n. [Gr. γαστήρ (γαστρ-), stomach, + περιοδος, period, + ὁδυνη, pain.] Intermittent paroxysmal pain at the pit of the stomach.

gastrohepatitis (gas'trō-hī-per-nū'ri-ā), n. [Gr. γαστήρ (γαστρ-), stomach, + περιοδος, period, + ὁδυνη, pain.] Intermittent paroxysmal pain at the pit of the stomach.

gastropexy (gas'trō-pek-si). n. [Gr. γαστήρ (γαστρ-), stomach, + πῆξις, fastening.] Operative fixation of the stomach to the abdominal wall.

gastrophile (gas'trō-fil), n. [Gr. γαστήρ (γαστρ-), stomach, + φίλος, loving.] One who loves good eating and plenty of it.

eating and plenty of it.

gastrophilism (gas-trof'i-lizm), n. [gastrophile + -ism.] The love of good eating.
gastrophilist (gas-trof'i-list), n. [gastrophile
+ -ist.] Same as *gastrophile.
gastrophilite (gas-trof'i-lit), a. [gastrophile
+ -ite².] Fond of gratifying the demands of
the storech

the stomach.

Gastrophrenic ligament, a fold of peritoneum which extends from the cardiac extremity of the stomach to the

gastrophthisis (gas-trof'thi-sis), n. [NL., ζ Gr. γαστήρ (γαστρ-), stomach, + φθίσις, wasting: see phthisis.] A cachectic state with emaciation consequent upon disease of the stomach.

gastroplasty (gas'trō-plas-ti), n. [Gr. $\gamma a \sigma \tau \dot{\eta}_0$ ($\gamma a \sigma \tau \dot{\eta}_0$), stomach, $+ \frac{1}{2} \lambda a \sigma \tau \dot{\eta}_0$, formed, $+ \frac{1}{2} \gamma a \sigma \tau \dot{\eta}_0$] In surg., an operation designed to restore the normal shape of a dilated or hour-glass stomach or to supply some defect in that organ.

gastroplegia (gas-trō-plē'ji-ā), n. [NL., < Gr. γαστήρ (γαστρ-), stomach, + πληγή, stroke.] Paralysis of the walls of the stomach.

gastroptosis (gas-trop-tō'sis), n. [NL., < Gr. γαστήρ (γαστρ-), stomach, + κτῶσις, falling.] Downward displacement of the stomach.

gastroschisis (gas-tros'ki-sis), n. [NL., < Gr. γαστήρ (γαστρ-), stomach, + σχίσις, fissure.] Congenital fissure of the abdominal wall.

gastroscope (gas 'trộ - skōp), n. [Gr. γαστήρ (γαστρ-), stomach, + σκοπείν, view.] A hollow tube provided with reflecting mirrors and an electric light, which is passed through the esophagus into the stomach in order to enable the operator to inspect the interior of that organ.

gastroscopy, n. 2. Inspection of the mucous membrane of the stomach by means of a gas-

of troscope.
3. gastrosis (gas-trō'sis), n. [NL., ⟨Gr. γαστήρ, stomach, + -osis.] Any disease of the

gastrosoph (gas 'trō-sof), n. [Gr. γαστήρ, stomach, + σοφός, wise.] An epicure; a stomach, gourmet.

gastrosophy (gas-tros 'ō-fi), n. [Gr. γαστίρ (γαστρ-), stomach, + σοφία, wisdom.] The $(\gamma a \sigma \tau \rho$ -), stomach, + science of good eating.

Coffee-house, what magnificent associations of ideas do you not create! By you for generations has rolled the never-ceasing flow of wealth. . . Yet, with the insouchance of a sublime philosophy, your cooks and waiters have never turned away from their works of gastrosophy to think of the neighbouring millions. Blackwood's Mag., XV. 642

gastrostenosis (gas'trō-stē-nō'sis), n. [NL., ζ Gr. γαστήρ (γαστρ-), stomach, + στένωσις, narrowing.] Contraction of the stomach.

gastrosuccorrhœa (gas'trō-suk-o-rē'ā), n. [NL., ⟨ Gr. γαστήρ (γαστρ-). stomach, + L. succus, juice, + Gr. ροία, flowing.] Abnor-

domen.

gastrotoxin (gas-trō-tok'sin), n. [Gr. γαστήρ wall-brown.
(γαστρ-), stomach, + E. toxin.] A cytotoxin gate-motion (gāt'mō'shon), n. A mechanism produced by immunization with cells from the by which skeins of yarn are easily removed from the swift or fly of a reeling-machine.

mucous membrane of the stomach.
gastrotrichan (gas-trot'ri-kan), a. and n.
[Gastrotricha + -an.] I. a. Of or pertaining to the Gastrotricha.

II. n. A member of the Gastrotricha.

H. n. A member of the Gastrotricha.

gastrotrocha (gas-trot'rô-kā), n. [NL., ⟨Gr. gate-net (gāt'net), n. A poacher's net set in a γαστήρ (γαστρ-), stomach, + τροχός, a wheel, circle.] The larva of a polychætous annelid having two rings of cilia, with incomplete slider of a gate-valve.

rings on the ventral surface.

gastrotrochal (gas-trot'rō-kal), a. [gastrotrocha + -al¹.] Of or pertaining to a gastrotrocha

gastrotympanites (gas'trō-tim-pa-nī'tēz), n. [NL., \langle Gr. γαστήρ (γαστρ-), stomach, + τυμπανίτης, tympanites.] Gaseous distention of the stomach

gastrozodid (gas-trō-zō'oid), n. [Gr. γαστήρ (γαστρ-), stomach, + ζῶον, animal, + -oid.] A nutritive member of a colony of Hydrozoa, which is provided with a mouth and stomachsac: typically present in the sea-ginger, Millepora alcicornis, and correlated with dactylozoöid. See *gonodendron, with cut.

gastrulate (gas' trö-lāt), v. i.; pret. and pp. gastrulated, ppr. gastrulating. [gastrula + gather, v. i. 4. In mech., to fit into; fit together: used in speaking of the teeth of gastrulated.

gastrula.

gastrulated (gas'trö-lā-ted), p. a. [gastrulate + -ed²] Having assumed the gastrula stage, it.

especially when the gastrula is formed by gather-dam (ga\pih'er-dam), n. A dam erected gaussage (gous'\bar{a}j), n. The numerical value of for the purpose of collecting water: an imagnetic flux density or induction expressed

invagination or embole.

gas-tube (gas'tūb), n. An instrument for the yas-tube (gas'tub), n. An instrument for the pounding reservoir.
analysis of gases, particularly illuminating- gathered (garh'erd), p. gas. It has a bulb which contains from 50 to 90 per cent. of the volume of the gas, and the volume of any portion absorbed by the use of a solvent is indicated on the graduated portion.

gas-turbine (gas'ter'bin), n. See *turbine. gasu-basu (gä'sö-bä'sö), n. [E. Indian.] An East Indian plant which possesses local anesthetic properties.

gas-valve (gas'valv), n. Any valve for shutting-off or regulating the flow of gas.
gas-volumeter (gas'vol'ū-mē-ter), n. Same as volumeter. G. Lunge, Sulphuric Acid, I.

employed in any capacity in the of gate of gas.

gat³ (gat), n. [A dial. variant of gate¹; cf. E.
Fries. and D. gat, a hole.] 1. An opening or passage in a sand-bank; a way from the cliffs to the sea. [Prov. Eng.] Eng. Dial. Dict.—

2. Naut., a channel among shoals.

gata (gät), n. [Sp. prop. fem. of gato, cat: see cat.] A large spotted shark, Ginglymostoma cirratum of the West Indies.

gate¹, n.—Bear-trap gate, a mechanical device for controlling the flow of water, its general outline being cathering-machine (gayH'er-ing-ma-shēn'), n. In bookbinding, a device for bringing together the signatures which make up a book. It is divided into compartments from which the signatures which make up a book. It is divided into compartments from which the signatures are casting-machine (gayH'er-ing-ma-shēn').

Among late inventions (in bookbinding) are a casting-machine the body of a book into its cover, gate¹, n.—Bear-trap gate, a mechanical device for controlling the flow of water, its general outline being similar to the bear-trap of the pioneer hunters and trappers.—By-pass gate, a gate or valve placed in an auxiliary by-pass pipe extending around some feature in the main pipe-line, as around a meter or valve.—Flashing-board gate, a device by which flashing-boards are held or controlled.

gate¹, v. t. 3. To place (a warp) in a loom ready for weaving.—4. To put (a machine, as a loom) in order to do its work properly.

gateado (gë-tā-ā'dō), n. [S. Amer. Sp., appar. < Sp. gateado, resembling a cat, cat-like, < gato, cat.] A tree of the sumac family, Astronium graveolens, native to Colombia and Venazuela. It should in a cluticum approved to the sumac family and the sumac family. ezuela. It abounds in a glutinous sap which has a nauseating terebinthine odor. Gateado yields a hard, durable, dark-colored cabinet-wood and a bark rich in tannin. Also called tibigaro.

gâteau (gä-tō'), n. [F., a cake: see wastel.] A cake.—Gâteau St. Honoré or de Princesse Louise, a form of puff-paste or sponge-cake filled with Bavarian

gate-box (gāt'boks), n. In steam- and waterfittings, a tubular casting, usually larger at the
lower end, designed to fit over a buried waterpipe for convenience in reaching a gate or valve

Belonging to the west indian rauna
gate in dian rauna
gater (gat'er), n. [Origin obscure.] Beer,
ale, or other drink. [Slang, Eng.]

Gaudarian (gow-dā'ri-an), a. and n. [Skt.
Gauda, a district of central Bengal, +-arian.] in the pipe by means of a long key; a valve-

gate-catch (gāt'kach), n. A four-pointed metal

protable and the handle of a riding-crop, used for opening hunting-gates.

gate-faucet (gāt'fâ'set), n. A faucet having a gate or valve for stopping the flow of the liquid.

succus, juice, + Gr. poia, flowing.] Additionally abundant secretion of gastric juice.

gastrotheca, n. [NL.] See gasterotheca.
gastrothoracic (gas trō-thō-ras ik), a. [Gr. gate-keeper, n. 2. An English collectors' name garanting to the thorax and the stomach or abdomen.

Relating to the thorax and the stomach or abdomen.

gate-night (gāt'nīt), n. The night before Hallowe'en, when gates, and other things, are carried off in sport by children. Dialect Notes,

gate-penny (gat'pen'i), n. A tribute paid by customary tenants for leave to pass through one or more of their lord's gates.

gate-tender (gāt'ten'der), n. A gateman. gate-wheel (gāt'hwēl), n. 1. A wheel in a railroad signal-tower or signal-cabin by which the gates protecting a highway or street which cross over the railroad are operated. *Jour. Brit. Inst. Elect. Engin.*, 1902-03, p. 620.—2. A wheel either directly attached to, or geared to, the spindle of a large gate-valve, or to a hydraulic gate, by which the valve or the gate

gather, v.i. 4. In mech., to fit into; fit together: used in speaking of the teeth of gears.—5.

Naut., to overtake another vessel: a vessel is

a.

marked by the formation of pus.

gatherer, n. 7. One of the median, permanent incisors of a horse used to gather or nip off grass in feeding. The four median milk-incisors, two above and two below, are shed by a colt at the age of two or two and one half years and replaced by the permanent incisors. Also called nipper.

gathering, n. 6. In agri., plowing back and forth around the crown of an existing ridge of land, thus turning all the furrow-slices integral.

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gathering force it in gaussivity, C being the line integral of H. Encyc. Brit., XXXIII. 214.

Gauss's equation, integral. See *equation, *integral.

gauteite (gâ'tē-īt), n. [Gauté, Bohemia, + ite².] In petrog., a fine-grained to aphanitic rock composed of orthoclase and lime-soda

ward and increasing the height of the ridge. [Great Britain.]

gathering-cry (gath'er-ing-kri), n. A slo-

gas-worker (gas' wer'ker), n. One who is gan; a summons to war. employed in any capacity in the manufacture gathering-hair (gavh'er-ing-har), n. One of of gas.

gat's (gat), n. [A dial. variant of gate1; cf. E. of a bee or wasp. A. S. Packard, Text-book of

Among late inventions [in bookbinding] are a casting-in machine, for putting the body of a book into its cover, and a gathering machine. Ceneus Bulletin 216 (June 28, 1892), p. 66.

gathering-table (ga\pi'er-ing-ta'bl), n. In bookbinding, a circular revolving gathering board (which see).

gating (ga'ting), n. The college punishment of confining a student within the college gates. See gate1, v., 2. [Eng.]

threads. Sometimes called leno-w gauze-wing (gaz'wing), n. Any is old order Neuroptera (which see).

gave2 (ga'va), n. See *gabi.

gave1 (gav'e1), v. t.; pret. and gavelled, ppr. gaveling, qavelling.

and distribute (or redistribute) of the solution of the second s

Drysdale sent out his scout to order his punishment as he might have ordered a waistcoat, . . and then dismissed punishment and gating from his mind.

T. Hughes, Tom Brown at Oxford, I. 197.

gato (gä'tō), n. [Sp., a cat: see cat.] A small shark, Mustelus lunulatus, of the family

In geol., a division of the Triassic rocks in south the Brahmanian or lowest stage of the Triassic.

protuberance on the handle of a riding-crop, Gaudete (gâ-đē'tē), n. The third Sunday in used for opening hunting-gates.

Advent: so named from the first word of the introit of the mass of that day, Gaudete, "Re-

joice ye."
gaultherase (gâl'the-rās), n. [gaulther(in) +
-ase.] A glucosidolytic ferment found in
wintergreen. It causes the formation of
oil of wintergreen from gaultherin.
gaultherilene (gâl-the'ri-lēn), n. [gaulther (-in)
+ -it + -ene.] A trade-name for a colorless
crystalline hydrocarbon contained in oil of
wintergreen. It melts at 65.5° C., and may be
identical with tracontane Co-Hac

with ergreen. The first of 3.3° C., and may be seeling-machine. identical with triacontane, $C_{30}H_{62}$. The night before **gaultherin** (gâl'the-rin), n. [Gaultheria + and other things, are $-in^2$.] A crystalline glucoside, $C_{14}H_{18}O_8$. H_2O_9 , ren. Dialect Notes, contained in the bark of Betula lenta. It is A poscher's net set in a gauntree, n. 3. A form of traveling crane hares or rabbits.

The nut on the gate or them. The girders are supported at their ends by a braced vertical frame which is borne on wheels at its feet, the wheels running upon a proper track. The traverse of the gauntree as a whole along the rails, and the traverse of the crab at right angles thereto, enable it to command any point in a long rectangular area. See gauntree

Gaurian (gou'ri-an), a. [Hind. Gaur, Beng. Gaud, E. Gaur or Gour, a former city and district of Bengal, < Skt. Gauda, a district of central Bengal, said to mean 'Sugar-land,' < gaura, of sugar.] Of or pertaining to Gaur, a former city and district of Bengal; hence, of Bengal and its language. Used only in an extended sense to designate the Bengal, Orlya (Uriya), Hindi, Panjabi, Sindhi, Marathi, and Gujarati languages of India, derived from or cognate with the ancient Sanskrit, to which they bear a relation analogous to that which the Romance languages bear to Latin.

The above examples from English and Assamese show

Romance languages over to Laun.

The above examples from English and Assamese show that reversions may take place from inflection to agglutination, which in fact is a general tendency amongst the Gaurian (Neo-Sanskritic) tongues of India, and also to a less extent in Italian and other Neo-Latin tongues.

Keane, Ethnology, p. 210.

in gausses.

Suppurating; gaussivity (gou-siv'i-ti), n. The intensity of magnetizing force expressed in gilberts per square centimeter or in gausses.

So μ is the inductivity, and H [= intensity of magnetizing force] the gaussivity, C being the line integral of H. Encya. Brit., XXXIII. 214.

gauteite (ga'tē-it), n. [Gauté, Bohemia, + -ite².] In petrog., a fine-grained to aphanitic rock composed of orthoclase and lime-soda feldspars in about equal portions and subordinate amounts of ferromagnesian constituents. It is intermediate in composition between trachyte and andesite: similar to andesite-trachyte, trachydolerite, etc. *Hibsch*, 1897.

gauz, n. and a. A simplified spelling of gauze.

gauze. I. n. 3. In surg., cheese-cloth, impregnated with antiseptic material (such as boric acid, corrosive sublimate, or iodoform), or simply sterilized, employed in dressing wounds.

Cheese cloth is almost universally used at the present for a wound dressing and is known to the profession as gauze.

Buck, Med. Handbook, I. 568. gauze.

Antiseptic gauze. gauze, bolting-cloth. Same as *gauze, 3,- Millers'

II. a.—Gause silk. See *silk.
gauze-weaving (gâz'wē'ving), n. A form of
weaving in which the warp-threads alone intersect and are bound in position by the west-threads. Sometimes called leno-weaving.

Any insect of the

gavelled, ppr. gaveling, gavelling. To partition and distribute (or redistribute) equally (the lands of one deceased) according to the practice of gavelkind. See gavel1, n., and gavel-

rato (gä'tō), n. [Sp., a cat: see cat.] A gavialoid (gā-vi-al'oid), a. [gavial+-oid.] small shark, Mustelus lunulatus, of the family Galeidæ: found on the west coast of Mexico.

— Gato bonaci, Mycteroperca tigris, a serranoid fish belonging to the West Indian fauna.

gawpy (gâ'pi), n. [gawp +-y.] One who idly stares in silly, open-mouthed wonder; a gaping, staring simpleton.

"They are a terrible set of fellows," he [Carlyle] said, "those open-mouthed wondering gauspies, who lodge you for the sake of looking at you: that is horrible."

Carlyle, in Froude, Life of Carlyle, L 261.

ern Asia. It constitutes the upper member of gayatrī (gā'ya-trē'), n. [Skt. gāyatrī', a meter the Brahmanian or lowest stage of the Triassic. (esp. that one specified).] A certain verse of

the Rig-Veda (III. lxii. 10) which every Brahman is supposed to repeat mentally in his

man is supposed to repeat mentary in his morning and evening devotions: it is regarded as very sacred. The verse is, in short, 'Let us consider the light of the sun.' gaye (gä'yā), n. [Also gayé, gadyé, gayí; native name.] A name applied in Guam to certain seabeans, especially to Stizolobium giganteum, a woody climber with slender glabrous branches, trifoliate leaves, and pale-greenish flowers. The hard brown orbicular seeds are sometimes called oxeye beans or, in Spanish, ojo-de-venado (buckeye).

(buckeye).

Gay-Lussac tower. See *tower¹.
gayong (gā-yong' or gā'yong), n. [Bisaya
gayong, Tagalog gayong, an oar: cf. Ilocan
gayang, a lance.] In the Philippine Islands, an oar used in the native boats.

gay-wings (gā'wingz), n. The fringed milk-wort, Polygala paucifolia: so called from the of large, usually pink-purple petals of the aerial flowers.

gaze, n.—At gaze. (c) By sight: said of a dog in hunting. gazebo, n. 2. Any structure or part of a building which affords or commands an extensive prospect or outlook, as a turret or lantern on the roof of a house, a balcony, a projecting window, or the like.

window, or the like. gazel, n—Grant's gazel, Gazella granti, a species common in East Africa, with longer and finer horns than any other member of the genus. It is replaced in Masalland by Thomson's gazelle.—Soemmering's gazelle, G. soemmeringis, of Somaliland. It is characterized by long ears and massive horns.—Speke's gazelle, G. spekei, a small, long-haired species, with the skin of the nose very flabby.—Waller's gazelle. See \times gerenut. gazet, n. and v. t. A simplified spelling of agestie

gazetteer (gaz-e-ter'), v. t. [gazetteer, n.] To describe in gazetteers: as, to gazetteer a country, city, or locality. Chambers's Encyc.

gazzettino (gäd-ze-tē'nō), n. [It., dim. of gazzetta, a small coin: see gazette.] A small Venetian coin struck under the Doge Leonardo

veneus coin struck under the Doge Leonardo Loredano (1501-21). G. B. An abbreviation of Great Britain. G. B. and I. An abbreviation of Great Britain and Ireland.

G. O. An abbreviation (a) of Grand Chancellor; (b) of Grand Chapter; (c) of Grand Con-

g. c. f. An abbreviation of greatest common

factor. A. O. H. An abbreviation (a) of Grand Cross of the Hanoverian Guelphic Order or Grand Cross of Hanover; (b) of Knight of the Grand Cross of Hanover

G. O. I. E. An abbreviation (a) of Grand Cross of the Indian Empire; (b) of Knight Grand Commander of the Indian Empire.

G. O. L. H. An abbreviation of Grand Cross of the Legion of Honor.

g. c. m. An abbreviation of greatest common

g. cm². An abbreviation of gram-centimeter square: the c. g. s. unit of moment of inertia.
G. O. M. G. An abbreviation (a) of Grand Cross of St. Michael and St. George; (b) of Knight of the Grand Cross of St. Michael and St. George

St. George.

G. O. S. I. An abbreviation (a) of Grand Commander of the Star of India; (b) of Knight Grand Commander of the Star of India.

G. O. V. O. An abbreviation of Grand Cross

of Royal Victorian Order.

1. O. Z. or O. Z. In astron., abbreviations of Gould's Cordova Zones, a series of star-catalogues: sometimes referred to as Z. C. (Zonæ Cordobenses).

In chem., a symbol for gadolinium.

An abbreviation (a) of Grand Duchess;

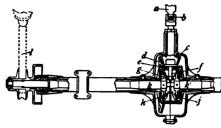
(b) Grand Duke; (c) of gravimetric density.

3. E. An abbreviation of Grand Encampment. geanticline (jē-an'ti-klīn), n. [Gr. ȳ, earth, + E. anticline.] In geol., an anticlinal or arching fold which involves a great thickness of strata and affects a large area; a broad dome formed by the warping of the earth's crust. Chamberlin and Salisbury, Geol., I. 481

gear, n. 5. The diameter of an imaginary wheel whose circumference is equal to the distance traversed by a safety-bicycle during a single revolution of the pedals: as, a 72-inch gear. [Collog.]—Anchor-tripping gear. Same as anchor-tripper.

Change-speed gear. See *change-speed.—Compensating-gear, a combination of spur- or bevel-gears or both used on motor-vehicles, by which the inequality in length of the paths traversed by the driving-wheels on curves is compensated for, without the slipping of the tires on the

ground. One gear, either spur or bevel, is on that part of the axle to which one of the wheels is attached, and another on the other half, the axle being discontinuous: if the two wheels were fastened to a continuous axle slipping would occur. Between these two gears, and meshing with both, is a third gear. The driving force is applied, through the teeth of this third gear, equally on both sides of its axis in straight running, and both wheels move through equal straight running, and both wheels move through equal paths. If one wheel seeks to go through a longer or shorter



Compensating-gear.

Compensating-gear.

a, shaft-drive from motor in front of vehicle; b, universal joint to give flexibility of alinement; c, driving bevel-gear on motorshaft extension; d, bevel-gear driven byc; c, hollow casing botted to d, turning with it and carrying stud/: f, stud forming axis for compensating-pinion g; g, compensating-pinion carried around bodily by f, as c revolves with d, and driving A and j without rolling on either when the driving-wheels run over equal distances in one revolution; h, j, compensating bevel-gears, turning solidly locked with g, except when rolling must occur because the axle-end on one side must move forward more or less than the circumference of either wheel in one revolution, by reason of the rolling of the wheels round a curve; A, B', axle of driving-wheels, not continuous but forming two fhaires meeting between A and j: l, one of the driving-wheels fast on the half-axle A; the other wheel is similarly fast on A'.

path than the other, the inequality is taken up by a rolling of the third gear upon the touthed surfaces of the other wo, and compensated for. If either wheel is similarly fast on **.

path than the other, the inequality is taken up by a rolling of the third gear upon the touthed surfaces of the other two, and compensated for. If either wheel is of leas diameter than the other by reason of wear or the defiation of the pneumatic tire, the compensating effect is continuous, while the propelling effect is equal on each wheel.—Full gear, such an arrangement of the valve-gear mechanism as will give the longest period for the admission of steam.—Half-speed gear, such an arrangement of the controlling mechanism or of the driving mechanism as will permit a machine to run at about half its full speed.—Herring-bone gear. See **piral **gear* (b).—Joy's gear, an engine valve-gear for cut-off and reversing in which no eccentric (or only one) is used. The motion for operating the valve is derived from a link, one end of which is attached to the connecting-rod. This link moves a secondary or intermediate link carrying, at one end, a block to which is attached the valve-rod and which slides up and down a slot. This slot is hung on a pin and, by turning it about that pin, the motion of the valve-rod can be varied to give different cut-offs and to make the engine run in either direction. The principal use of this gear has been on marine engines, a few pumping-engines, and fewer locomotives.—Blifting gear, a gear which is free to slide axially along a shaft and can hence be engaged or disengaged at will. Such gears, arranged in pairs, are frequently used for changing the speed of automobiles.—Bpiral gear. (a) A toothed wheel in which the axis of the wheel, as in spur-gearing, or inclined to and intersecting the axis, as in bevel-gear, but is a helical line, inclined to the axis and not intersecting it. The surfaces of the teeth are made up of helical elements (incorrectly called spirals). Such spiral gears in pairs run very smoot

gear-block (gēr'blok), n. A block or pulley used in rigging the running-gear of a vessel. gear-case (ger kas), n. A cover or casing placed around gears to keep out dirt and grit, and also to protect the workmen from being

and also to protect the workmen from being caught by the gears and injured.

gearing, n.—Humpage gearing, a compound bevelgear drive for effecting a change of angular velocity or of speed of rotation.—Train of gearing, a transmission mechanism of toothed wheels in which each wheel is related to that which precedes it and follows it, as a follower and a driver respectively. If the gears are in the same plane, it is a simple train; if the driven wheels are not drivers, but are on the shaft of a second wheel which is the driver of the next shaft in the train, it is a compound train. Trains of gearing may be used to increase power and reduce speeds, as in cranes, crabs, winches, and motor-cars; or they may increase speed and reduce power, as in clocks and watches. Reversing motions or disengagement devices may be introduced into trains. A transmission from a factory engine to the individual tools is a train of mechanism, but, as gears are seldom used, it is not properly a train of gearing.

gear-plate (ger plat), n. In engines, a wrist-plate; a motion-plate.

train of *gearing.

gear-work (ger werk), n. A gear-train; a set of gears for transmitting power.

gears for transmitting power.
gedda (ged's), n. A term apρlied to certain
gums. See *geddic.
geddic (ged'ik), a. [gedda + -ic.] Derived
from the gedda gums.—Geddic acid, an acid de
rived from Arabian gedda gums, which consist of a mixture of the calcium, magnesium, and potassium salts of
this acid this soid

this acid.

Gedinnian (je-din'i-an), a. [F. Gedinne, a district in Belgium.] In geol., a subdivision of the Devonian system in Belgium, northern France, and the Rhineland. It forms the base of the Devonian system and lies uncomformably upon Cambrian rocks. In the Eifel it includes the Taunus and Hundsrück beds with a conglomerate at the bottom.

geebung (je'bung), n. [Also geebong, gibong, jibbong; native Australian name.] The fruit of several Australian proteaceous trees of the genus Linkia. particularly L. falcata: also the

genus Linkia, particularly L. falcata; also, the trees themselves. It is tasteless, and seldom eaten by any but children.

gee-throw (jē'thrō), n. In lumbering, a heavy wooden lever with a curved iron point, used to

break out logging-sleds.

gegenschein (gā gen-shīn), n. [G., < gegen, opposite, + schein, shining.] The large, faintly luminous patch on the ecliptic opposite to the summous pasen on the ecliptic opposite to the sun, supposed to be a part of the zodiacal light. Its explanation is still uncertain, though it is generally believed to be due to reflection from minute meteoric particles at a distance greater than the length of the earth shadow. See *counter-glow.

gegg (geg), n. The Scotch pronunciation of gag, n., 6.

gehydrophilous (jē-hī-drof'i-lus), a. Resembling or having the characters of the Gehydrophila.

geic (gē'ik), a. [Gr. γη, the earth, + -ic.] Pertaining to the earth.—Geic acid. Same as Aumic

geikielite (gē'kē-līt), n. [Named for Sir Archibald Geikie, a Scottish geologist.] Magnesium titanate (MgTiO₃), found in the form of nearly black rolled pebbles in the gem-mines of Rak-

wana, Ceylon.
wana, (gā'rā), n. [Pg.] A Portuguese and
Brazilian land-measure, equal to 1.44 acres.

[Jan aei-sha. < gei, polite geisha (gā'shā), n. [Jap. gei-sha, \langle gei, polite accomplishments (\langle Chin., i, (orig. ki, an art. a profession) + sha (\langle Chin. ché), one who.] One of a class of accomplished and specially trained young Japanese women (commonly called singing- or dancing-girls by foreigners) who are employed at banquets, and on social, convivial, and other occasions, to entertain the

company with Japanese dancing, music, etc. geison (gī'son), n.; pl. geisa (-sā). [Gr. γείσον, often γείσσον.] The Greek name for the cornice of a building: used in treatises on Greek architecture.

A special peculiarity of the horizontal geisa lies in the fact that their mutules are of different size, varying between six and four guttae in front.

C. Smith, in Jour. Hellenic Studies, XVI. 338.

geisotherm (jē -ī 'sō - thèrm), n. [Gr. yō, the earth, + E. isotherm.] An imaginary surface supposed to pass through all points within the earth's crust which have the same temperature. geisothermal (jē-ī-sō-ther 'mal), a. and n. [As geisotherm + -all.] I. a. Same as isogeothermal.

II. n. A geisothermal surface; a geisotherm.

Geissler's mercury air-pump, tubes, vacuum. See *air-pump, tube, *vacuum.

See *air-pump, tube, *vacuum.
geissospermine (gi-sō-sper'min), n. [Geissospermum + -ine².] A crystalline alkaloid.
C₁₉H₂₄O₂N₂ + H₂O or C₂₃H₂₈O₄N₂, contained
in pereira bark. It is levorotatory, and melts
or decomposes at 189° C.
geite (jō'īt), n. [Gr. ȳ̄̄, earth, + -ite².] A
name proposed by John Milne for the matter
which constitutes the nucleus of the earth.
Nature April 9 1903 p. 539

Nature, April 9, 1903, p. 539.

gel (jel), n. [Appar. detached from hydrogel and similar recent formations, where the second element is made to represent the crude stem of L. gelare, freeze, congeal: see congeal.] A gelatinous or albuminous protoplasmic substance, especially the protoplasm of nerve-cells.

becomes relatively solid, or passes into the "gel" phase. Biol. Bulletin, June, 1904, p. 4.

gelasin (jel's-sin), n. [gel(atin) + -ase + -in².]
A variety of agar-agar. Buck, Med. Handbook, I. 138.
gelastification (je-lat'i-fi-kā'shon), n. [*gelatity* (-fic-) (\(\) gelat(in) + -fy) + -ation.] Conversion into gelatin; the process of transforming a substance into a jelly-like state.
gelatin, n.—Chromatized gelatin. See chromatize.—Fluid gelatin, aluminium oleate, a soft white putty-like substance of great tenseity, insoluble in water. It is used as a thickener for Inbricating-olla.—Formal dehyde gelatin, a pale-brown coarse dorless powder obtained by treating a solution of gelatin with a small but definite amount of formalin and evaporating to dryness. It is said to liberate formaldehyde when applied to denuded surfaces. Also called formacoli.—Gelatin of Plorkowsky, a nutrient medium suggested for the cultivation of the stream of gelatin to the liter of normal urine of 1020 specific gravity.—Gelatin paper, relief. See *paper, **relief.—Glycerin gelatin, a culture medium for bacteria: nutrient gelatin with a certain amount of gy-cerin added.—Nutrient selatin, a bacteriological culture medium composed of nutrient bouillon and an amount of gelatin singlicient to solidify the medium.—Wort gelatin, nutrient gelatin but which does not digest coexplain.

gelatinase (je-lat'i-nās), n. [gelatin + -ase.]
A ferment which liquefies gelatin but which
does not digest coagulated egg-albumin or fibrin in either acid, neutral, or alkaline solutions. It occurs widely distributed among bacteria, yeasta, molds, and in various phanerogams. According to recent research trypsin is not a unity, and a gelatinase has been demonstrated as one of its possible components.

gelatiniferous (jel"a-tin-if'e-rus), a. [gelatin + L. ferre, bear, + -ous.] Producing or yield-

ing gelatin.
gelatinize, v. t. 2. To coat with gelatin: as,
gelatinized paper.

gelatinobromide, gelatinochlorid emulsion. See *emulsion

See *emulsion.

gelatinography (jel'a-ti-nog'ra-fi), n. [gelatin+ Gr. γραφία, < γράφειν, write.] In photog., a rapid process for making newspaper blocks.

gelatinotype (jel-a-tin ô-tip), n. [gelatin + Gr. τύπος, type.] In photog., a photomechanical process in which a gelatin film in semirelief, properly backed, is used in printing instead of wood or metal.

gelation (jē-lā'shon), n. [L. gelatio(n-), freezing, \(\frac{gelate}{n}, \text{ yelare}, \text{ freeze.} \] The assumption of the solid state by cooling below common atmospheric temperature; freezing.

I do not doubt but that wonderful phenomena of congelation, regelation, degelation, and gelation pure without preposition, take place whenever a schoolboy makes a snowball; and that miraculously rapid changes in the structure and temperature of the particles accompany the experiment of producing a star with it on an old gentleman's back.

Ruskin, Deucalion, I. 44.

gelatose (jel'a-tōs), n. [gelat(in) + -ose.] An albumose derived from gelatin. Also called

alumose cerived from genain. Also caned glutose or glutinose.

gelechiid (jē-lē'ki-id), n. and a. I. n. One of the Gelechiidæ.

II. a. Of or belonging to the lepidopterous

family Gelechiidæ.

family Gelechiidæ.

gelignite (jel'ig-nīt), n. [ge(latin) + L. lignum, wood, + -ite².] A trade-name for an explosive of the dynamite class, consisting of 65 parts of gelatin (96 per cent. nitroglycerin and 4 per cent. nitrocotton) and 35 parts of dope (75 per cent. sodium nitrate, 1 per cent. sodium carbonate, and 24 per cent. wood-pulp).

gelinotte (jel-i-not'), n. [F. gelinotte, dim. of geline, a hen, < L. gallina. a hen: see gallinaceous.] The hazel-hen, Tetrastes bonasia, a species of grouse common in the pine-forests and birch woods of the mountain districts of

and birch woods of the mountain districts of Europe and central and northern Asia.

gelogenic (jel-ō-jen'ik), a. [Irreg. < Gr. γέλως, laughter, + -γενής, -producing, + -ic.] Productive or provocative of laughter. G. S. Hall,

Adolescence, II. 95.
gelong (ge-long'), n. [Tibetan gelong.] In

Tibet, a monk.

gelsemic (jel-sem'ik), a. [gelsem(ium) + -ic.]
Derived from yellow jasmine.—Gelsemic acid, a colorless crystalline compound, C₁₃H₁₆O₉, obtained from the roots of Gelsemium sempervirens. It forms fluorescent solutions and is possibly identical with esculin.

gelseminine (jel-sem'i-nin), n. [gelsemine + -ine².] An amorphous, very poisonous alkaloid, C₂₄H₂₈O₄N₂ or C₂₂H₂₆O₃N₂. It is found with gelsemine in Gelsemium sempervirens.

loid, $C_{24}H_{28}O_4N_2$ or $C_{22}H_{26}O_3N_2$. It is found with gelsemine in Gelsemium sempervirens. gem, n. 5. The name given by English typefounders to a body of type that is intermediate between brilliant and diamond.—6. A cake Gempylus + -idæ.] A family of mackerel-like

union or fusion of two contiguous teeth caused by the uniting of two tooth-pulps.—Dissimilated gemination, a gemination, actual or assumed, of a consonant, followed by a dissimilation of the second consonant to a mute of the same class, as L. numeru-s, \cdot\numeru-numeru-s, \cdot\numeru-numeru-s, \cdot\numeru-s, \cd

radiant in the constellation Gemini.—Geminid radiant in the constellation Gemini.—Geminid variable, a variable star which in its behavior resembles Geminorum. Its period ranges from 7 hours to 13 days, its change of luster is continuous, and the maxima recur punctually.

geminipolar (jem"i-ni-pō'lar), a. [L. geminus, twin, + polus, pole: see polar.] Having two like poles, side by side: said of certain nervegalls.

cells.

3. In biol., one of the hypothetical units of living matter: similar to biogen, idio-blast, *pangen, *plasome, etc.—4. A knoblike protuberance or nodule.

gemmate (jem'āt), v. i.; pret. and pp. gemmated, ppr. gemmating. [L. gemmare, put forth buds, \(\) gemma, a bud: see gem, n.] To put forth buds or to propagate by buds, as a polyp. gemmated (jem'ā-ted), a. [gemmate + -ed².] Set with gems; bedecked with precious stones.

Set with gems; bedecked with precious stones.

Set with gems; bedecked with precious stones.

gemmation, n., 1. (b) The arrangement or phyllotaxy of leaf-buds.—Calycinal gemmation.

See *calycinal.—Conenchymal gemmation, in the Anthoxoa, the reproduction of new corallites by budding from the conenchymal tissue between the old corallites.—Costal gemmation. See *catracalycinal of the corals, the development of a new corallite from one of the septa which becomes enlarged and produced so as to inclose a new calycinal disk.—Stolonal gemmation. Same as basal gemmation (which see, under gemmation).—Tabular gemmation (which see, under gemmation).—Tabular gemmation observed in certain tabulate corals in which the tabular are produced upward to form pockets from which the new corallites are developed.

gemmative (jem'a-tiv), a. [gemmate + -ive.]

Relating to reproduction by gemmation.

gemmer (jem'er), n. One who searches or digs for gems.

digs for gems.

gemmipore (jem'i-pōr), n. [NL. Gemmipora.]
A madreporarian coral of the genus Gemmipora.

The gemmipores resemble these in general form, and a their fringe of short tentacles, but the disk is not triated.

Dana, Zooph., p. 47. striated.

gemmology (jem-ol'ō-ji), n. [L. gemma, gem, + Gr. -λογία, < λέγειν, speak.] The science of

emmular (jem'ū-lär), a. [gemmule + -ar³.] Of or relating to gemmules.

That while still in this gemmular condition, these cell seeds have for one another a mutual affinity, which leads to their being collected from all parts of the system by the reproductive glands of the organism.

Smithsonian Rep., 1890, p. 433.

gemmule, n. 3. In biol., one of the hypothetical living units conceived by Darwin as the bearers of the hereditary attributes of animals and plants.

gemmuled (jem'ūld), a. [gemmule + -ed².] Bearing or ornamented by small protuber-ances or nodules.

The remainder [of the whorls in Gasteropoda]... being uniformly adorned by two keeled spiral rows of close-set and conspicuously noduled gemmæ,... below the two gemmuled carine is a strong spiral plain keel.

Proc. Zool. Soc. London, 1901, IL 372.

fishes, elongate and having very strong teeth, containing species known as the escolars and snake-mackerels.

snake-mackerels.
gempyloid (jem'pi-loid), a. Pertaining to or resembling the Gempylidæ.
Gempylus (jem'pi-lus), n. [NL. (Cuvier), formation not clear: of Gemylus (1865), Gemplus (1865), Gemplus (1865), Gemplus (1865), Gemplus (1866), Gempl pylodes (1864), genera of Coleoptera.] A genus of snake-mackerels, elongate mackerel-like fishes with strong teeth found in the open seas. The commonest species is G. serpens.

gem-salt (jèm'sâlt), n. Rock-salt, the mineral halite. Gen. An abbreviation (c) of Geneva or Gen-

evan. gen. An abbreviation (c) of gender; (d) of genera; (e) of generally; (f) of generic; (g) of

genus. gender² (gen'der), n. [Jav. and Malavan

gender? (gen'dèr), n. [Jav. and Malayan gender.] A Javanese musical instrument of the xylophone class. It consists of a graduated series of eleven strips of metal strung together by two cords tied about them at their nodal points, and each provided beneath with a piece of bamboo for a resonator. geneal. An abbreviation of genealogy. Genealogical individual. See *individual. geneclexis (jen-e-klek'sis), n. [NL., < Gr. ½105, kind (nature), + ἐκλεξις, selection.] Unconscious, automatic natural selection, in distinction from teleclexis, an intentional or artificial selection brought about by man. artificial selection brought about by man.

artificial selection brought about by man. L. F. Ward, Pure Sociol., p. 361. genepistasis (jen-e-pis'tā-sis), n. [NL., < Gr. γεν., produce, + ἐπίστασις, cessation: see epistasis.] Cessation of development in the history of a species or race. [Rare.]

Once a condition of stable equilibrium has been reached ... we may have ... Genepistasis, resulting in the fixity or stability of an organic species, under stable conditions.

J. A. Ryder, Biol. Lectures, 1896, p. 50.

genepistasy (jen-e-pis'tā-si), n. Same as

*genepistasis.
genepistatic (jen-ep-i-stat'ik), a. Of or per-

taining to genepistasis.

generalization, n. 4. In pathol., the involvement of the entire system in a morbid process

which was at first local.

generalizational (gen'e-ral-i-zā'shon-al), a.

Of the nature of a generalization; used in generalization.—Generalizational tion. See *demonstration. demonstra-

generalize, v. i. 3. In painting, to render large and typical characteristics rather than details. generate, v. t. 5. To produce; evolve; as electricity, force, friction, gas, heat, light, velocity, etc.

The two distinct and independent electromotive forces generated by such a machine are used to supply two distinct and independent currents to two distinct and independent circuits.

Franklin and Williamson, Alternating Currents, viii.

The steam generated from the sea-water, if used for drinking, . . . is condensed and filtered.

R. H. Thurston, Manual of the Steam Engine, II. 141.

6. In music, of a tone fundamental to a chord, to suggest or fix (the remaining tones of the harmony).

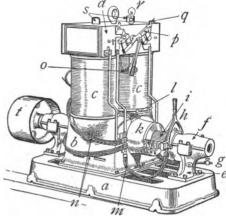
generation, n. 10. The individuals of a given mineral species which have been formed at the same time and under similar conditions, as in the solidification of an igneous rock, or the deposits in a mineral vein. Amer. Geol., June, 1904, p. 338. generational (jen-e-rā'shon-al), a. [generation + -al¹.] Of or pertaining to generation.

It is stated that 'these generating elements define the group completely,' whereas the generating elements with a complete set of generational relations are necessary for the definition of the group; also as alternative for 'equations' should be given 'generational relations.'

Science, June 5, 1903, p. 906.

Generative rupture. See *rupture.

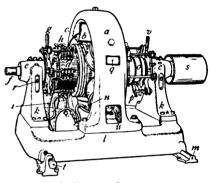
Generative rupture. See *rupture.
generator, n.—Asynchronous generator, in elect.,
an alternating-current dynamo in which speed and frequency of alternation are not in fixed relation to each
other.—Bipolar generator, in elect., a dynamo having
two pole-pieces between which the armature revolves.
The essential features of a bipolar generator for direct
currents are shown in the figure. See cut on next page.
—Closed-coil generator, a generator the successive
coils in the armature of which are connected in series.
The dynamos of Gramme and Siemens are examples of
closed-coil generators.—Differential generator, an electric machine with a differentially compounded field winding. See electric *motor.—Double-current generator,
a dynamo-electric machine built to supply direct as
well as alternating (usually polyphase) currents. It
consists of a magnetic field in which revolves an armature which is connected to collector-rings for the alternating and to a commutator for the direct current. See
cut on next page.—Generator gas. See *gas.—Induction generator, in elect., any alternating-current
generator having an alternating field and two sets of
windings (primary and secondary) which rotate with



Bipolar Generator.

a, base; b, pole-piece; c, protective roping; d, field-yoke; c, pillow-block; f, bearing-cap; g, pet-cock; h, brush-holder stud and handle; f, commutator; d, arnature; f, wire screen; m, arnature-lead; m, series field-lead; o, shunt field-lead; g, load-switch; g, terminal; r, pilot-lamp; s, pole-piece bolts; f, dfriving-pulley.

respect to one another.—Monocyclic generator, an alternating-current machine producing polyphase electro-



Double-current Generator.

a, magnet-frame; b, pole-piece; c, armature; d, commutator; d, bearing; f, shaft; g, direct-current bfush-adjusting handle; h, direct-current brushes; d, direct-current leads; h, pillow-block; l, base; m, belt-tightener track; n, field-leads; o, collector-ring; h, alternating-current brush; e, name-plate; r, oil-gage; s, pulley; l, belt-tightener bolt; n, keeper-bolt; v, alternating-current brush-adjusting handle.

motive forces with a single-phase flow of energy. The currents from such generators are particularly adapted to the starting and operation of induction motors.—Motor-generator, in elect., a combination of two machines consisting of a motor and generator mounted on a common shaft. The usual arrangement consists of an alternating-current motor, thus driving a direct-current generator.—Open-coil generator, a generator the ends of the armature windings of which are not joined, each to the following, but are connected separately to the commutator-bars or collector-rings.—Polyphase generator, in elect., a machine which produces two or more alternating currents and differ in phase.—Pulsating-current generator, in elect., a generator producing direct currents that vary periodically in intensity. The open-coil arc-lighting dynamos of Thomson and of Brush are examples of pulsating-current generators.—Single-phase generator, in elect., an alternating-current machine which produces only one current, or produces currents all of which are in the same phase.—Three-phase generator. See triphase *generator*. Tri-phase generator*, in elect., an alternating-current dynamo from which, by suitable connections with the armature, three currents, in separate circuits and differing from one another in phase by 60°, are produced.

generator-unit (jen'e-rā-tor-ū"nit), n. A part of a plant for generating electric power (as a single engine and the dynamos supplied by it) which is designed to be operated as a unit, and which can be thus operated without reference to the remainder of the plant or can be stopped without influencing the operation of the remainder.

Generic image. See *image. — Generic whole, the whole of a logical genus.

Genesee shale. See *shale2.

Genesial cycle. See *cycle1.

genesic (je-nes'ik), a. [Irreg. $\langle genes(is) + -ic.$] The normal adjective from genesis is genetic.] Pertaining to genesis or reproduction; genetic.

Attention should be directed [to] . . . the evidences of awakening genesic tendency.

Med. Record, July 11, 1903, p. 66.

genesis, n.—Social genesis, a division of social science treating of the natural origin and development of society.

L. F. Ward, Outlines of Sociol., p. 190.

genethliacally (jen-eth-li'a-kal-i), adv. Astrologically; by horoscopy.

He was not only a bold adventurous practitioner in physic, but also . . . an adept, who read the stars, and expounded the fortunes of mankind, genethitacally, as he called it, or otherwise. Scott, Kenilworth, xL

genethlialogic (jē-neth'li-a-loj'ik), a. Of or pertaining to genethlialogy, or the casting of nativities

nativities.

genethlialogical (jē-neth 'li-a-loj'i-kal), a.

Same as *genethlialogic.

Genetic aggregation. See *aggregation.—Genetic
method. (b) That method of philosophical inquiry which
endeavors to avoid assumptions antecedent to the examination of facts, and so far as it is unable to free itself from
first principles regards them as subject to modification in
the light of experience, proceeding, as far as possible, by
the method of taking up verifiable hypotheses suggested
by observation and of thoroughly testing them experimentally.—Genetic pit, progress, psychology, selection.

genetic. An element in recent adjectives
which correspond to nouns in -aenesis (see

genetic. An element in recent adjectives which correspond to nouns in -genesis (see genesis) and -geny (see -geny), as biogenetic, phylogenetic, etc. See genetic. genetics (je-net'iks), n. That portion of evolutionary science which deals with natural development uncomplicated by human purpose or artificial process. L. F. Ward, Outlines of Sociol., p. 180.

genetopathy (jen-e-top'a-thi), n. [Irreg. (Gr. γένεσις (γένετι-), reproduction, + πάθος, suffering.] Disease connected with the reproductive functions.

The source of this as of all the other genetopathies may be congenital or even hereditary, but very often its origin is in the nervous system.

G. S. Hall, Adolescence, I. 498.

genetophobia (jen'e-tộ-fố'bi-Ḥ), n. [Irreg. \langle Gr. $\gamma \ell \nu e \sigma \iota c$ ($\gamma \epsilon \nu e \tau \iota$ -), origin, + $-\phi \rho \beta \iota a$, \langle $\phi \rho \beta \epsilon \iota \nu$, fear.] A morbid fear of, or aversion to, the study of origins.

study of origins.

This genetophobia pervades . . . much of the best ancient and contemporary philosophical and theological thought.

G. S. Hall, Adolescence, II. 41.

Genial apophysis, the group of four genial tubercles.

genicular (jē-nik'ū-lär), a. [geniculum + -ar³.]

In bot., growing on or at a node; occurring in the tissue of the node: as, genicular cells.

geniculum (jē-nik'ū-lum), n.; pl. genicula (-lä).

[NL., < L. geniculum, a little knee, a joint of a stem, dim. of genu, knee.] 1. In bot., a node or joint of a stem — 2. In gent, a sharp hend

or joint of a stem.—2. In anat., a sharp bend in any small organ, such as that in the facial nerve where it passes through the temporal

geniolatry (jē-ni-ol'a-tri), n. [L. genius, a genius, + Gr. λατρεία, worship.] The worship genius, of genii.

of genii.
genion (jē-nī'on), n.; pl. genia (-ā). [NL., (Gr. γένειον, the chin, (γέννς, chin: see genial².] In craniom, the point of the spina mentalis interna. Von Török.
genioplasty, n. 2. Operative restoration of a portion of the cheek which is lacking. genip (jen'ip), n. Same as genip-tree. genistein (jē-nis'tē-in), n. [Genista + -in².] A crystalline coloring-matter, C₁₄H₁₀O₅, obtained from the flowers of Genista tinctoria (dyer's - broom): trihydroxyphenylketocoumarin.

 $(\mathring{\mathrm{H}}\mathring{\mathrm{O}})_{2}\mathrm{C}_{6}\mathrm{H}_{2}\langle \overset{\mathrm{O}}{\underset{2}{\mathrm{CO}}}\rangle \overset{\mathrm{c}}{\mathrm{CH}}.\mathrm{C}_{6}\mathrm{H}_{4}.\mathrm{O}^{\mathrm{l}}\mathrm{H}.$

genit. An abbreviation of genitive.
Genital band, in Gephyrea, one of the ridges or bands of cells attached to the interior of the body-wall which give rise to the ova and spermatozoa.

Stretching across the ventral aspect of the colon, at the point where the ventral retractors are attached to the body-wall, is a band of cells with relatively large nuclei. These cells constitute the genital band and are derived from the peritoneal epithelium.

Proc. Zool. Soc. London, 1903, I. 37.

genitivally (jen-i-ti'val-i), adv. As regards the genitive case; with reference to the genitive

genitive, a. 2. Connected with or relating to generation.

These powers are at their best at the time of strongest genitive impulses and greatest conceptive power.

G. S. II all, Adolescence, I. 490.

genitocœle (jen'i-tō-sēl), n. $[genit(al) + Gr. \kappa o i \lambda o \varsigma, hollow.]$ In $zo \ddot{o}l.$, a brood-eavity, or storage-chamber for eggs.

genitospinal (jen'i-tō-spī'nal), n. Noting a nerve-center in the spinal cord which controls the organs of generation and also in part

the bladder and lower bowel.

genizah (ge-nē'zā), n.; pl. genizoth (ge-nē'zōt). [Aram., \langle ganaz, set aside, hide, save.] Among Jews, a sacred object, such as a defective scroll of the law, which has been rendered unfit for liturgical use. Such objects are

gentian

preserved because, although damaged, they still possess a certain sacredness from the fact that the name of Jehovah is contained in them. Some genizoth in the Holy Land and Egypt, especially those of Cairo, have furnished valuable matter to archæological and theological students.

genizara (hā-nē thā-rā), n. [Cuban Sp. use of Sp. genizara, fem. of genizaro, a janizary.] A small labroid fish, Clepticus parræ. [Cuba.] Gen'l. An abbreviation of General (as a title).

genoholotype (jen-ō-bol'ō-tūp), n. [Irreg. (Gr. γένος, kind, genus, + δλος, whole, + τίπος, type.] The one species on which a genus is founded, or a series of species on which a genus is founded one of which is stated by the author to be the 'type.' Schuchert and Buckman, in Science, June 9, 1905, p. 900.

genolectotype (jen-ō-lek'tō-tūp), n. [Irreg. (Gr. γένος, kind, genus, + λεκτός, chosen, + τίπος, type.] One of a series of species selected to be the type of a genus subsequent to the description of that genus. Schuchert and Buckman, in Science, June 9, 1905, p. 901.

Genosiris (jen-o-sī'ris), n. [NL. (Labillar-dière. 1804). incorrectly formed (Gr. γένος

Genosiris (jen-o-sī'ris), n. [NL. (Labillar-dière, 1804), incorrectly formed ζ Gr. γένος, kind, genus, + Iris, a genus of plants.] A genus of monocotyledonous plants. See Patersonia.

genosyntype (jen-ō-sin'tīp), n. [Irreg. (Gr. γένος, kind, genus, + σίν, with, + τίπος, type.] One of a series of species upon which a genus is founded, no one species being the gencholotype, or species on which the genus is based. Schuchert and Buckman, in Science, June 9, 1905, p. 901.

genotype (jen'ō-tīp), n. [Irreg. $\langle Gr. \gamma \acute{e} \nu \sigma_{i} \rangle$, kind, genus, $+ \tau \acute{e} \pi \sigma_{i}$, type.] The type specimen or original description or illustration of a genus. See type specimen, under type.

Eight species have at various times been referred to Romingeria, mostly upon very insufficient grounds; hence the original conception of the genus has become obscured and is without much present significance. If the original description and figure of Billings be taken as a starting-point, the subsequent vicinsitudes of this genotype will be appreciated.

Amer. Jour. Sci., July, 1908, p. L.

genson (jen'son), n. [A dial. form of gentian.]
The horse-gentian, or feverroot, Triosteum perfoliatum.

genson (jen'son), n. [A dial. form of gentian.]
The horse-gentian, or feverroot, Triosteum perfoliatum.

gentian, n.—American gentian, in phar., Gentians Saponaria, the scapwort-gentian, used as a substitute for the officinal gentian, probably including other species. Also (improperly) the American columbo, Frasera Carolinensis.—Autumn gentian, Gentiana Amarella, a low Old World species, used medicinally.—Barrel-gentian, the closed gentian, G. Andrewsi, so called from the barrel-shaped flowers. The scapwort-gentian, G. Saponaria, has been called barrel-flowered gentian for the same reason.—Bastard gentian. (a) Gentiana acuta. See northern **gentian. (b) The pineweed or orange-grass, Sarothra gentian. (c) The pineweed or orange-grass, Sarothra gentiann. Andrewsi.—Bluc gentian, the closed gentian, Gentiana Andrewsi.—Blue gentian, the closed gentian, Gentiana Andrewsi.—Ellutott's gentian, a blue-flowered gentian.—Bottle gentian, and generally any blue-flowered gentian.—Bottle gentian, the closed gentian, Gentiana Elliottii, of the southeastern United States of the same general type as the scapwort-gentian.—Free-flowered gentian, the ague-weed, Gentiana quinquefolia of eastern North America, also called stif gentian and gall-weed. It is an attractive plant with rather slender tubular flowers in clusters of about five. Its root is said to be much used in domestic practice.—Gentian zoninia. Compare flowers in clusters of about five. Its root is said to be much used in the matter sender tubular flowers and in the matter sender tubular flowers and in the morthern regions of both hemispheres and in the matter sender tubular flowers and flowers of both hemispheres and in the matter sender tubular flowers and flower





See gentian. This and the closed gentian, striped gentian, and other related species differ greatly in habit from the officinal gentian, being lower, more slender, and leas erect plants with oblong leaves narrowed at the base and bearing their club-shaped flowers at or near the summit of the stem, while their nearly closed flowers separate them widely from the fringed gentians and the five-flowered gentian. In the Southern mountains the species of this group are called Samson's makeroot. See American *gentian.—Southern gentian, the soapwort-gentian, Gentiana Saponaria. See American *gentian.—Stiff gentian. Same as five-flowered *gentian.—Stiff gentian. Gentiana silloss, of the eastern United States, especially southward: a plant of the habit and property of the soapwort-gentian (see above), but with flowers more open, and greenish-white striped within.—White gentian, the laserwort or herb frankincense, Laserpitium latifolium. See Laserpitium Also same as horse-gentian (which see, under gentian). These are gentians only medicinally.—Yellow gentian. These are gentians conly medicinally.—Yellow gentian. The officinal species, Gentiana lutea. See gentian and yellow. The root possesses in a high degree the medicinal property of a bitter tonic. (b) The American columbo, Fraeera Carolinensis.

Gentianales (jen-shia-nā'lēz), n. pl. [NL.

Gentianales (jen-shia-nā'lēz), n. pl. [NL. (Lindley, 1833), Gentiana+-nles.] An order of dicotyledonous, chiefly sympetalous plants characterized by regular flowers, mostly 5-merous, the stamens borne on the base of the corolla and as many as its lobes, and 2 distinct OVARIOS. It embraces 7 families, of which the Gentianaces, Oleaces, Apocynaces, and Asclepiadaces are the most important.

gentianic (jen-shi-an'ik), a. Pertaining to or derived from gentianin. - Gentianic acid, an incorrect name for *gentianin.

gentianin (jen'shia-nin), n. The pale-yellow crystalline coloring-matter of the root of Gencrystalline coloring-matter of the root of Gentiana lutea. It is used as a tonic, melts at 267° c., and is dihydroxymethoxyxanthone, HO.C₆ earth, + E. botanic.] Same as geobotanical. H₃ $\stackrel{\circ}{C}_{\rm O}$ $\stackrel{\circ}{>}$ C₆H₂OH.OCH₃. Also called gentisin geobotanist (jē-ō-bot'a-nist), n. [geobotan(y)] and gentianic acid.

gentianose (jen'shia-nos), n. [gentian + -ose.] gentialness (left similarly), (1000), (100) (left (100)) (100) (left (100)) (100)

gentiobiase (jen'ti-ō-bi'ās), n. [gentiobi(ose) + -ase.] A ferment which inverts gentiobiose to the corresponding disaccharides.

gentiobiose (jen'ti-ō-bī'ōs), n. [genti(an) + (hex)obiose.] A hexobiose derived from dextrose.

gentiogenin (jen-ti-oj'e-nin), n. [genti(an) + -gen+-in².] An amorphous cleavage-product, $C_{14}H_{16}O_5$, of the glucoside gentiopicrin, obtained from the root of Gentiana lutea.

gentiol (jen'ti- \ddot{o} l), n. [genti(an) + -ol.] An amorphous compound, $C_{30}H_{45}(OH)_{3}$, obtained from the flowers of Gentiana verna. It melts at

gentisate (jen'ti-sāt), n. [gentis-ic+-ate¹.] A salt of gentisic acid. gentisein (jen-tis'ē-in), n. [gent(ian) + Gr. lσος, equal (†), + -e- + -in².] A straw-colored com-

pound, $H^{\bullet}C_6H_3 < {}^{\circ}C_0 > C_6H_2(\overset{1\cdot3}{OH})_2$, which crystallizes in needles and melts at 315° C. It is a dye and is also called 1, 3, 7, trihydroxyxanthone.

xanthone.

gentisic acid. Same as * gentianic acid.
gentisin (jen'ti-sin), n. Same as * gentianin.
gentleman's-cane (jen'tl-manz-kān), n. The
prince's-feather, Polygonum orientale.
Genu arcuatum.eversum.excurvatum, orextrorsum.
Same as * genu varum.—Genu introrsum or inversum.
Same as * genu varum.—Genu introrsum or inversum.
Same as * genu varum.—Genu introrsum or inversum.
Same as * genu varum.—Genu recurvatum, hyperextension of the knee, forming a projecting angle backward.—Genu vargum, knock-knee.—Genu varum, outward bending of the legs; bow legs.
genual, a. 2. Pertaining to or resembling a genu (in any sense).—Genual sulcus. See *sulcus.

genuin, a. A simplified spelling of genuine. genus, n.—Form genus, a genus or group consisting of form species.—Proximate genus, in logic, the next higher genus; the genus next above a given species.—Summum genus, same as highest genus; a genus that is not included in any other genus.

Genyatremus (jen-i-at'rē-mus), n. [NL., (Gr. γέννς, chin (see chin), + α- priv. + τρῆμα, hole.] A genus of fishes of the family Hæmulidæ, commonly known as the grunts. They are similar to fishes of the genus Anisotremus, but have a curved tail. G. luteus is found in the West Indian found in the West Indies.

Genyonemus (jen"i-ō-nē'mus), n. [NL., ⟨Gr. γένις, chin, + νήμα, thread.] A genus of small evanoid fishes known as kingfishes, found on the coast of California, where G. lineatus is valued as food.

Genyophrynidæ (jen'i-ō-frin'i-dē), n. pl. [NL.

Genyophryne, the type genus, +-idæ.] A family of tailless Amphibia which contains species with dilated sacral vertebræ and very small teeth on the front portion of the under jaw. The few species are found in the Australian region.

Genyornis (jen-i-ôr'nis), n. [NL., (Gr. γένυς, chin, +όρυς, bird.] A genus of large struthious birds, apparently related to the emu, known from remains in the Pleistocene deposits about Lake Callabonna, Australia. The type of the

genus is G. newtoni.

genyplasty (jen'i-plas-ti), n. [Gr. γέννς, chin, + πλαστός, formed, + -y³.] See * genioplasty.

geobiologic (jē'ō-bī-ō-loj'ik), a. Of or pertaining to geobiology.

A forest soil, such as we find in western North Carolina, is an expression, therefore, not only of the physico-geographic, geographic, and geophysic forces which have been brought to bear in its formation, but also of the geobiologic forces which have been at play.

Bot. Gazette, Oct., 1903, p. 256.

geobios (jē-ō-bī'os), n. [Gr. $\gamma\bar{\eta}$ ($\gamma\epsilon\omega$ -), earth, land, + $\beta io\epsilon$, life.] The animals and plants of the land, considered collectively and in contrast with the animals and plants of the

The term halibios seems to be suitable to designate the totality of the marine fauna and flora, as contrasted with limnobios, or the organic world of fresh water, and with geobios or the totality of the land-dwelling or terrestrial plant and animal world.

Haeckel (trans.), Planktonic Studies, p. 578.

+ -ist.] A student of geobotany.

The most thorough investigations have been given to ne chernozem soils by Russian geo-botanists. U. S. Dept. Agr., Bur. Plant Industry, Bulletin 3, p. 18.

geobotany (jō-ō-bot'a-ni), n. [Gr. $\gamma\bar{\eta}$ ($\gamma\epsilon\omega$), earth, + E. botany.] Geographical botany or phytogeography, including its ecological

The geology and geo-botany of Asia. Pop. Sci. Mo., May, 1904, p. 68.

Pop. Sci. Mo., May, 1904, p. 68.

geocarpy (jō'ō-kār-pi), n. [Gr. $\gamma\bar{\eta}$ (γεω-), earth, ground, + καρπός, fruit, +-y3.] The habit of certain plants of burying their fruit in the ground for protection. The peanut is the most familiar example. Jour. Roy. Micros. Soc., Aug., 1904, p. 427.

geocentric. I. α.—Geocentric system, the ancient theory of the solar system which placed the earth at its center.—Geocentric zenith. See * zenith.

II. n. An adherent of the theory that the earth is the center of the universe.

geocentricism (jē-ō-sen'tri-sizm), n. [geocentric + -ism.] The geocentric theory.

We have moreover, in approaching these questions to clear our minds entirely of geocentricism, theological and philosophical as well as physical, of our notions of this earth as the center of the universe and the grand scene of providential action.

Goldwin Smith, in The Forum, July, 1896, p. 608.

geochemical (jē-ō-kem'i-kal), a. [Gr. γη̄ (γεω-), earth, + E. chemical.] Presenting both geological and chemical relations. Jour. Soc.

chem. Industry, VII. 338. geochemism ($j\bar{e}$ - $j\bar{e}$ -kem'ism), n. [Gr. $\gamma\bar{\eta}$ ($\gamma\epsilon\omega$ -), earth, + chemism.] Chemical energy as the cause of changes in, and as determining the condition of, the materials of which the earth's crust is composed.

All of these processes are the work of gravity, heat, light, electricity and magnetism, and combined they produce a set of chemical changes which, as a mode of motion, we call chemism, which must be distinguished from affinity, for affinity means choice, while chemism means energy, and valency expresses numerical proportions. Heat produces expansion, gravity produces contraction in the materials of the rocky crust, and, conjoined, they produce chemism. This geochemism is the fundamental energy.

J. W. Powell, Truth and Error, p. 59.

geochemistry (jē-ō-kem'is-tri), n. [Gr. $\gamma\bar{\eta}$ ($\gamma\epsilon\omega$), earth, + E. chemistry.] The chemical study of the earth, that is, the science of its chemical composition and of the chemical causes and effects of terrestrial processes.

The problems of geophysics and geochemistry involve the applications of pure physics and pure chemistry from the minutest parts of the earth to the mass of the earth as a whole.

Rep. Carnegie Inst., 1902, p. 27.

geochrone (jē'ō-krōn), n. [Gr. $\gamma\bar{\eta}$ ($\gamma\epsilon\omega$ -), earth, + $\chi\rho\delta\nu\sigma$ c, time.] A name proposed for the standard time unit used in measuring geologic time and comparing different eras.

The time ratio adopted by Prof. James D. Dana for the Paleozoic, Mesozoic, and Cenozoic periods is, 12, 3, and 1, respectively. Prof. Henry S. Williams applies the term geochronology, giving the standard time unit used the

name geochrone. The geochrone used by him in obtaining a standard scale of geochronology is the period represented by the Eocene. His time scale gives 15 for the Paleozoic, 3 for the Mesozoic, and 1 for the Cenozoic, including the Quaternary and the Recent.

Smithsonian Rep., 1893, p. 381.

geochronology (jē'ō-krō-nol'ō-ji), n. Geologic chronology; the application of time measures to geologic succession. Smithsonian Rep., 1893, p. 331.

geochrony (jē-ok'rō-ni), n. [Gr. $\gamma\bar{\eta}$ ($\gamma\epsilon\omega$ -), earth, + $\chi\rho\delta\nu\sigma\varsigma$, time.] The chronological classifica-

+ χρόνος, time.] The chronological classification of the earth's history.

geocratic (jē-ō-krat'ik), a. [Gr. γη̄ (γεω-), land, κρατείν, predominate, + -ic.] Relating to times or conditions in which land predominates or continents enlarge.

Hydrocratic and geocratic movements alternated during Jurassic times, with a decided balance in favour of the coast-line towards the north.

Geog. Jour. (R. G. S.), XI. 133. the north.

geod. An abbreviation of geodesy. geodal (jē'ō-dal), a. Characteristic of or per-taining to a geode or formed by the same pro-cesses which give rise to geodes.

Geodesic geometry. See *geometry.

geodetic a.—Geodetic latitude. See *latitude.—
Geodetic leveling. See *leveling.
II. n. A geodetic line.
geodetician! (je'o-de-tish'ian), n. [geodetic + -ian.] One who is skilled in geodesy; a geode-

He estimates that to complete the undertaking the co-operation of five geodeticians for four complete years will be necessary. Geog. Jour. (R. G. S.), XVI. 356.

geodic (jē-od'ik), a. [geode + -ic.] Of, pertaining to, resembling, containing, or that has contained a geode: as, geodic cavities; geodic

"Man, like this star, is geodic." "Passing wonderful! I have been straining after the stars, how much there is in the stones! Geodic Androids!" S. Judd, Margaret, II. iii.

geodist (jē'ō-dist), n. [geode + -ist.] A student or investigator of geodes.

Fairburn's experiments... illustrate this tetrahedral collapse for short tubes; and... it is considered probable by some geodists. ble by some geodists. Geog. Jour. (R. G. S.), XIII. 239.

geodromican (jē-ō-drom'i-kan), a. and n. L. a. Of or belonging to the heteropterous series Geodromica.

H. n. One of the Geodromica.

geoduck (jē'ō-duk), n. Same as *goeduck.
geodynamic (jē'ō-dī-nam'ik), a. [Gr. γη̄ (γεω-),
earth, + E. dynamics.] 1. Relating to the dynamics of the earth, or the forces manifested in the formation and subsequent history of the earth.—2. Specifically, of the solid earth as distinguished from the ocean and atmosphere. Geodynamic observatory, an observatory estab-lished for the recording and investigation of the phenom-ena proper to the solid earth, specifically the phenomena of seismology and vulcanology.

Cavaliere de Rossi, of Rome, has established a "geo-dynamic" observatory in a cave 700 metres above the sea at Rocca di Papa, on the external slope of an extinct vol-cano. G. H. Darwin, The Tides, p. 127.

geodynamical (jē-ē-dī-nam'i-kal), a. Same as *aeodunamic.

geodynamics (jē-ō-dī-nam'iks), n. The study of the dynamics and physics of the processes and phenomena attending the gradual evolution of the earth and the changes that are still going on.

going on.

geo-ethnic (jē-ō-eth'nik), n. [geo(graphic) +
ethnic]. Of or pertaining to the geographical
relations of tribes and peoples.

geoform (jē-ō-fôrm), n. Same as *creoform.

Geoglossaceæ (jē'ō-glo-sā'sē-ē), n. pl. [NL.,
'Geoglossum + -aceæ.] A family of fleshy
ascomycetous fungi named from the genus
Geoglossum. The ascomata are club-shaped or capitate and bear asci opening by a termi-

nal pore. See Geoglossum.

geoglyphic (jē-ō-glif'ik), a. [Gr. γη̄ (γεω-), earth,
+ γλιψη̄, a carving, + -ic.] In geol., noting those
characters marked on the rocks from which may be read former conditions of the earth and

may be read former conditions of the earth and its life, as a fossil bird-track or rain-print. Dana, Manual of Geol., p. 95.

geognosist (jē-og'nō-sist), n. [geognos-y + -ist.] One versed in geognosy; a geognost.

Leopold von Buch, the first geognosist of the century, and hardly less famous than Humboldt.

Pop. Sci. Mo., May, 1904, p. 85.

geografer, geografic, geografy. Simplified spellings of geographer, geographic, geography. geogram ($j\bar{e}'\bar{\phi}$ -gram), n. [Gr. $\gamma\bar{n}$ ($\gamma\epsilon\omega$ -), earth, $+\gamma p\dot{a}\mu\mu a$, a writing.] In geol., a special

Geographic Geology. See *accology. Geographical biology. Same as *biogeography.—Ge graphical climatology, latitude, tongue, variation.—I see *actimatology, *klatitude, *tongue, *kariation.—I tarnational seesraphical mile. See *mile. See **climatology, *tlatitude, *tongue, *tvariation.—In-ternational geographical mile. See **mile. geographize, v. II. intrans. To study geog-

raphy; carry on more or less systematic observations and researches in geography, geography, n. 3. The main features of a locality as regards its geographical position and general character; the knowledge derived from geographical research. from geographical research.—Applied geography, geography considered in relation to commerce and trade; commercial geography.

The term "applied geography" has been employed to designate commercial geography, the fact being that every aspect of scientific geography may be applied to practical purposes, including the purposes of trade.

Energy. Brit., XXVIII.628.

Astronomical geography, that branch of geography which treats of the astronomical relations of the earth's surface, such as latitudes and longitudes, and seconsequent peculiarities of day and night, climates, and seasons in different regions.—Commercial geography, the geographical study of the production, distribution, and exchange of commodities.—Esthematical geography, these departments of geographical science which need on the maple, birch, and chestnut. The moth is consequent of the position of the earth in the solar system, its form, of the position of the earth in the solar system, its form, size, motions, etc., the determination of the position of the position of the earth by means of latitude and longitude, the charting of those positions, the delineation of surface features, etc.—Organic geography, the science which treats of the responses of organisms to their environment; biography.

Thus defined, geography has two chief divisions. Every.

Geometrical, a.—At a geometrical ratio, solution. See *ratio, **ratio.—Geometrical ratio, solution.

Thus defined, geography has two chief divisions. Everything about the earth or any inorganic part of it, considered as an element of the environment by which the organic inhabitants are conditioned, belongs under physical geography or physiography. Every item in which the organic inhabitants of the earth—plant, animal, or manshow a response to the elements of environment, belongs under organic geography. Geography proper involves a consideration of relations in which the things that belong under its two divisions are involved.

Amer. Geol., March, 1904, p. 168.

Plant geography. Same as phytogeography. geoid, n. 2. See geode. geoidal (jē'oid-al), a. [geoid +-al.] E

[geoid +-al.] Relating

geoidating to a gooid.
geoistherm (jē -ō - i' sō - therm), n. [Gr. $\gamma\bar{\eta}$ ($\gamma\epsilon\omega$), earth, + E. isotherm.] An imaginary surface passing through all points within the crust of the earth which have the same

the crust of the earth which have the same temperature.

geologic, a. 2. Interested in geology or given to geologizing: as, geologic tourists.

geologize, v. II. trans. To study or investigate geologically: as, to geologize a district.

geology, n. 1. It is usually subdivided into (a) Geognosy, or the description of the materials of the earth (sometimes called lithologic or petrographic geology; (b) dynamic geology; (c) structural, geotectonic, or architectonic geology; (f) physiographic geology; (p) paleontologic geology; (f) historical or stratigraphic geology; (g) cosmic geology. It is also customary to subdivide it according to its applications, as economic geology, or the treatment of its relations to the useful rocks and minerals and mining or quarrying; practical or applied geology, etc. d geology, etc.

2. The geological conditions or features of a place: as, the geology of a district.

Rollan geology, the study of geological phenomena due to the winds.—Anthropic geology, that branch of the science which is specially concerned with the effects produced by the presence of man on the earth.—Areal geology, that branch of the science under which the local formations in a particular area are described and discussed.

Under "Areal geology" will be discussed the stratigraphy, igneous rocks, and structure; and under "Economic geology" will be treated the character and occurrence of ore and present mining activity.

Contrib. to Econ. Geol., U. S. Geol. Surv., 1902, p. 32.

Contro. to Econ. Geol., U. S. Geol. Surv., 1902, p. 82.

Biotic or biologic geology, geology considered with reference to biologic phenomena; paleontology.— Diastrophic geology. See **dicastrophic.— Economic geology, that branch of geology which treats of the origin, occurrence, and applications of the useful ores and nonmetallic minerals and rocks.— Experimental geology, that method of geological investigation which seeks to reproduce natural phenomena by artificial or experimental processes.— Formational geology, that branch of geology under which is included the study of the successive geological formations: practically synonymous with stratigraphic geology.

graphic geology.

geomagnetic (jē'ō-mag-net'ik), a. [Gr. γη̄
(γεω-), the earth, + E. magnetic.] Of or pertaining to terrestrial magnetism. Nature,
April 21, 1904, p. 581.

geomagnetist (jē-ō-mag'ne-tist), n. A specialist in the magnetic phenomena of the earth.

The geomagnetist Paulins.
Sci. Amer. Sup., Sept. 19, 1903, 23176.

name suggested for those continuous sections of sedimentary strata which furnish a time-scale for the geologic past.

Further, the meteorologist had his chronometer whereas the geologist must construct his time-scale from the records on what might, for purposes of comparison, be referred to as the "geograms," or strips of the geological sediments.

Nature, March 16, 1905, p. 477.

Geographic oscology. See *acology.

Geographical biology. Same as *biogeography.—Geographical climatology, latitude, tongue, variation.—International geographical mile. See *mile.

geographical geographical mile. See *mile.
geographical geographical mile. See *mile.
geographical geographical mile. See *mile.
geographical geographical mile. See *mile.
geographical climatology, taintude, tongue, variation.—International geographical mile. See *mile.
geographical carry on more or less systematic observations and researches in geography.



geometricize (gē-ō-met'ri-sīz), v. i.; pret. and pp. geometricized, ppr. geometricizing. To apply the principles of geometry; become geometrical. H. C. Butler, Architecture and Other Arts, p. 31.
geometrid, n.—Green geometrid, any member of the geometrid subfamily Geometring, nearly all of whose species are bright green in color. Constock.

geometrideous (jē-om-e-trid'ē-us), a. Same as geometrid, a. geometrize, r. II. trans. To form geometrically or according to geometrical principles. geometroid (jē-om'e-troid), a. and n. I. a. Of or belonging to the superfamily Geometroidea

II. n. One of the *Geometroidea (which see).

Of or belonging to the superfamily Geometroidea.

II. n. One of the *Geometroidea* (which see).

Geometroidea* (je-om-e-troi'de-ë), n. pl. [NL., considered as a group of superfamily rank.

geometry, n. The oldest classification of geometry is (a), that in which it is divided according to the method of logical procedure, namely into synthetic and analytic, the method of geometrical analysis having been invented or taught by Plato. In modern times this classification intertwines with another, namely (b), that which is based on the mental instrument or equipment used, giving: (1) pure or synthetic geometry (2) rational; (3) descriptive; (4) projective; (5) algebraic, algorithmic, analytical, Cartesian, or coordinate; (6) differential, infinitesimal, natural, or intrinsic; (7) enumerative or denumerative.

Some of these are subdivided on the same principle, as: (1) (a) geometry of the ruler on straight-edge; (8) of the ruler and sect-carrier; (y) of the ruler and compasses; (c) of tinkages. Further divisions are: (c) By dimensional lit; (1) geometry on the straight or on the line; (2) two-dimensional geometry; (a) plane geometry; (b) plane; (c) plane geometry: (a) geometry of planes; (3) tri-dimensional geometry: (a) geometry of planes; (3) tri-dimensional geometry: (a) geometry of planes; (b) folding planes; (c) planes geometry: (a) geometry of the sphere; (2) straight or line; (3) plane; (4) point, straight, and plane; (5) straighteat or geodesic; (6) geometry of the sphere; (7) of other elements. (e) By subject-matter: (1) pure descriptive, pure projective, or pure positional geometry; (3) meric geometry; (4) geometry of the sphere; (7) of other elements. (e) By subject-matter: (1) pure descriptive, pure projective, or pure positional geometry; (3) meric geometry; (4) geometry of the sphere; (7) on n-Arquesian; (8) non-Pascalian, (9) By the kind of space or universe of the geometry in the divided on the part treated: (1) Euclidean geometry; (1) Euclidean or notable elliptic, or simple elliptic; (3) Killing's, si

infinitesimal geometry; applications of the differential and integral calculus to curves and surfaces. — Geodesic geometry, geometry in which for straight on the plane, straightest on the surface is substituted. — Geometry on a plane, obtained by interchanging point with plane. — Einematic geometry, geometry which treats of the properties of curves and surfaces regarded as functions of the spacial and angular velocities of lines which move in accordance with fixed laws.— Lemoine-Brocard geometry, the geometry of the triangle, inaugurated by Lemoine in 1873, and by Brocard in 1873.—Lobachevskian geometry, the geometry of a Lobachevskian space or universe.— Non-Euclidean geometry, a geometry in which Euclid's postulate with regard to parallel straight lines is not assumed. See *mos-Euclidean.— Rational geometry, geometry founded and developed without the use of irrational numbers, and without ratio: in it four magnitudes by definition form a proportion if the product of two equals the product of the other two.— Riemannian geometry, the geometry in which Euclid's tacit assumption that the straight line is infinite is denied.— Straight geometry, geometry developed by the use of a symbolic geometry, geometry developed by the use of a symbolic geometry, geometry developed by the use of a symbolic language or calculus of symbols. geometry, he product of the earth, + \(\text{upphi}\eta\), form.] Of or relating to the figure of the earth or to the study of land-forms.

I doubt if any careful geomorphic geologist familiar with all the phenomena involved would seriously consider an

I doubt if any careful geomorphic geologist familiar with all the phenomena involved would seriously consider an estimate that made it much more than one half at the most; so that it would apparently not be straining the evidence to take 40,000 years as a rude measure of the time since the beginning of the retreat [of the Wisconsin stage.

T. C. Chamberlin, in Jour. of Geol., Oct.—Nov., 1899, p. 686.

The climatologist who studies the physical conditions of the atmosphere for their own sake . . . the geomorphist who is satisfied with the study of land forms as a finality . . . these specialists may all be eminer in their own lines, but they fall short of being geographers.

Amer. Geol., March, 1904, p. 174.

geomorphogenic (je'ō-môr-fō-jen'ik), a. Of or pertaining to geomorphogeny or the study of the development of land forms.

geomorphogenist (jē'ō-môr-foj'e-nist), n. A specialist in the investigation of the development of earth-forms; a physiographer.

The survey reports have not, as a rule, been prepared by persons whose training and interests were primarily geographical, and very few of the geomorphogenists have carried their new science forward into a geographical relation; they have usually stopped with the physical aspects of the subject, and left the organic aspects with scanty consideration.

Amer. Geod., March, 1904, p. 152.

geomorphogeny (jē'ō-môr-foj'e-ni), π. [Gr. γπ, the earth, + μορφή, form, + -γενεια, < -γενής, -produced.] In geol. the study of the origin of the surface features of the earth.

The French geologist Élie de Beaumont, whose theory of geomorphogeny was stated at length in his 'Notice sur les systèmes de montagnes' (3 vols.: Paris, 1852). This famous theory was based on a correlation of the mountain chains by means of their orientation.

Geog. Jour. (R. G. S.), XIII. 235.

geomorphological (jē'ō-môr-fō-loj'i-kal), a. geomorphological (je⁻0-mor-fo-lo] 1-kal), a. Of or relating to geomorphology. See *geomorphology. Geog. Jour. (R. G. S.), IX. 666. geomorphology (je⁻0-mor-fol⁻0-ji), n. [Gr.)7, the earth, + E. morphology.] The morphology of the earth; the study of the form of the earth's surface features and of their origin.

The first volume of Suess' great work on Geomorphology was published in 1886, and at once took the leading place as the greatest contribution ever offered by geology to geography.

Geog. Jour. (R. G. S.), XI. 440.

geomorphy, n. 2. The science of land forms.

The survey reports of our various states and territories contain a great fund of geographical matter, and some of the members of these surveys have carried the physical geography of the lands so far forward as to develop it into a new science, to which a name, geomorphy or geomorphyogeny, has been given.

Science, Jan. 22, 1804, p. 123.

geonomic, n. · 2. Pertaining to the earth: contrasted with astronomical or pertaining to the heavenly bodies.

geonomical (jē-ō-nom'i-kal), a. Same as geonomic. Smithsonian Rep., 1903, p. 375. Geophagus (jē-of'a-gus), n. [NL., < Gr., i, earth, + φαγείν, eat.] A genus of cichlid fishes found in the rivers of Brazil.

geophilous, a. 2. In bot. (a) Terrestrial; growing or rooting in the ground. (b) In phyto-geog., growing on the ground or on decaying vegetable matter: applied by Pound and Clem-ents to a class of fungi. (c) Fruiting underground.

ground.

Geophysical laboratory, an institution devoted to the observation and study of the physical relations of the earth, especially its meteorology, tides, magnetism, gravitation, temperature, earthquakes, and volcanoes, geophysicist (jē-ō-fiz'i-sist), n. [grophysic-s+-ist.] A student of geophysics: one who

studies the relations between the features of the earth and the laws of physics.

Jour. Sci., Dec., 1903, p. 402.

geophysiognomy (jē'ō-fiz-i-og'nō-mi), n. The physical features of the face of the earth.
geophyte (jē'ō-fīt), n. 1. A plant which produces underground buds that do not develop there.

geopolar (jē-ō-pō'lšr), a. [Gr. yō, the earth, + E. polar.] Related to the pole of the earth: opposed to heliopolar, which refers to the pole of the sun's rotation.

geopolar (je-ō-thermal), a. and n. I. a. Geothermal (jē-ō-thermal), a. and n. I. a. Geothermal).

H. n. A line connecting places having the same temperature at a given depth below the earth's surface. of the sun's rotation.

In discussing the direction of the variation, two systems of coordinates are used: First, the 'geopolar,' given by the hour-angle and latitude of the point where the direction at any hour cuts the Earth's surface; and second, the 'heliopolar,' in terms of the angle with the Sun's direction (heliopolar distance), and the angle which the plane through the direction at any hour and the Sun makes with the equator. Science, Feb. 7, 1902, p. 223.

geopolitical ($j\bar{e}'\bar{e}$ - $p\bar{e}$ -lit'i-kal), a. [Gr. $\gamma\bar{\eta}$, earth, + E. political.] Relating to politics as affected by geographical relations.

affected by geographical relations.

The border-nations... the Hebrews, Phœnicians, Hellenes... Had Geography not aided them by geopolitical advantages of situation, they would a tonce have been swallowed up by the empires. Had they not developed Intellect, their geo-political situation could not have availed them very long.

Emil Reich, in Contemporary Rev., April, 1905, p. 505.

geopony (jē-op'o-ni), n. [Gr. γεωπονία, < γεωπόνος, a tiller of the earth: see geoponic.] Ag-

riculture; geoponics; farming.

georetic (je-ō-ret'ik), a. [Gr. $\gamma \bar{\eta}$, earth, + $\dot{\rho} \eta \tau (i \nu \eta)$, resin, + -ic.] Noting a colorless crystalline waxy scid, $C_{12}H_{22}O_4$, obtained from lignite from the neighborhood of Weissers (see Section Section). senfels in Saxony.

senfels in Saxony.

Georgian architecture. See *architecture.
georgical (jôr'ji-kal), a. Same as georgic.
georgino (jôr-jē'nō), n. [It.] A silver Genoese coin of the eighteenth century bearing the device of St. George on horseback.
georyssid (jē-ō-ris'id), n. and a. I. n. A member of the coleopterous family Georysside.

II. a. Of or belonging to the family George.

II. a. Of or belonging to the family Georys-

sidæ. Geoscolecidæ (jē-ō-skō-les'i-dē), $n.\ pl.$ [NL., \langle Geoscolex (-lec-) + -idæ.] A family of terricolous annelids, mainly tropical. There are eight sets in a segment; the clitellum is usually saddle-shaped and is often furnished with modified sets; the nephridia are paired with rarely more than one pair in a segment; the male pores are generally within the clitellum; and the spermathece are without diverticula. The typical genus is Geoscolex. (jē-ō-skō'leks), n. [NL., \langle Gr. $\gamma \bar{n}$, earth, $+ \sigma \kappa \omega \lambda \eta \bar{s}$, a worm.] The typical genus of the family Geoscolecidæ. Leuckart. geosote (jē'ō-sōt), n. The valeric acid ester of guaiacol, $C_6H_4\langle$ O.CH $_3\rangle$ an oily liquid used internally in tuberculosis. Buck, Med. Handing the spental substance of the sepals and opposite them, and a superior compound ovary. The order embraces 20 families, of which the most important are the Geraniaceæ, Oxalidaceæ, Linaceæ, Rutaceæ, Balsameaceæ, and Euphorbiaceæ.

Geraniaceæ, Oxalidaceæ, Linaceæ, Rutaceæ, Balsameaceæ, and Euphorbiaceæ.

Geraniaceæ, Oxalidaceæ, Linaceæ, Balsameaceæ, Oxalidaceæ, Linaceæ, Balsameaceæ, Coxalidaceæ, Linaceæ, Balsameaceæ, and Euphorbiaceæ.

Geraniaceæ, Oxalidaceæ, Linaceæ, Balsameaceæ, Coxalidaceæ, Linaceæ, Balsameaceæ, Oxalidaceæ, Linaceæ, Balsameaceæ, Coxalidaceæ, Linaceæ, Coxalidaceæ, Linaceæ, Coxalidaceæ, Linaceæ, Balsameaceæ, Coxalidaceæ, Linaceæ, Coxalidaceæ, Linaceæ, Coxalidaceæ, Linaceæ, Coxalidaceæ, Linaceæ, Coxalidaceæ, Linaceæ, Balsameaceæ, Coxalidaceæ, Linaceæ, Coxalidaceæ, Linaceæ

internally in tuberculosis. Buck, Med. Handbook, IV. 425.

geosphere ($j\tilde{e}'\tilde{o}$ -sfēr), n. [Gr. $\gamma\tilde{\eta}$, earth, + $\sigma\phiai\rho_a$, sphere.] 1. The atmosphere of the earth as distinguished from that of other planets.—2. One of the concentric, spheroidal shells of which the earth may be conceived to consist. Four are usually postulated, from without inward, the atmosphere, the hydrosphere, the lithosphere, and the centrosphere or barysphere. The sphere capable of supporting life and embracing portions of the outer three is called the biosphere.

When we regard our globe with the mind's eye, it appears to be formed of concentric spheres, very like, still very unlike, the successive costs of an onion. Within is situated the vast nucleus or centrosphere; surrounding this is what may be called the tektosphere [τηκτός, molten], a shell of materials in a state bordering on fusion, upon which rests and creeps the lithosphere. Then follow hydrosphere and atmosphere, with the included blosphere. To the interaction of these six geospheres through energy derived from internal and external sources, may be referred all the existing superficial phenomena of the planet.

Six John Murray, in Geog. Jour. (R. G. S.), XIV. 436.

geosynclinal, n. II. a. Having the characters of a geosyncline.
geosyncline (jē-ō-sin'klīn), n. [As geosynclinal].] In geol., a considerable tract in which the strata are bent into a great trough with many minor undulations on the flanks.

Dana, Manual of Geol., p. 106.

geotactic (jē-ō-tak'tik), a. [geotaxis (-tact-) +
-ic.] Of or pertaining to the locomotion of organisms or of cells in relation to the direc-

organisms or of cells in relation to the direction of the earth; exhibiting geotaxis. geotaxis ($j\bar{e}$ - \bar{e} -tak'sis), n. [NL., \langle Gr. $\gamma\bar{\eta}$, earth, $+\tau\delta\xi\iota_{i}$, disposition.] The orientation or locomotion of cells or of organisms in relation to the direction of the earth (ortogravity). For example, "cockroaches seem to be stimulated by gerangically and also obtained from certain euclipheral callyptus oils. It boils at $242-245^{\circ}$ C. geratic (ge-rat'ik), a. [Gr. $\gamma\bar{\eta}\rho a\zeta$ (later stem

gravity when this acts perpendicularly to their ventral surface, so that they tend to move off from a horizontal surface and do not come to rest until they are on a more or less nearly vertical one." C. B. Davenport, Exper. Morphol., p. 118.

Geothermic degree. See *degree. geothermometric (jē'ō-thèr-mō-met'rik), a. [Gr. γη, earth, + E. thermometric.] Pertaining to the measurement and distribution of earthtemperature

geotropically (jē-ō-trop'i-kal-i), adv. In a geotropic manner or direction.

geotropism, n.—Negative geotropism, growth away from the earth, the normal condition in stems. Compare heliotropism.—Positive geotropism, growth toward the center of the earth, the normal condition in roots. It is nearly the same as negative heliotropism. See helio-

Gephyroceras (jef-i-ros'e-ras), n. bridge, $+ \kappa \epsilon \rho a_{\rm c}$, horn.] A genus of ammonoid cephalopods or goniatites, with compressed whorls and but slightly progressed sutures: characteristic of the later Devonian faunas.

Gerablattina (ger'a-bla-tī'nā), n. [NL., ζ Gr. γῆρας, old age, + NL. Blattina, a genus of cockroaches.] A genus of Paleozoic cock-

geranial² (jē-rā'ni-al), n. [geranium + -al³.] A colorless, oily aldehyde, (CH₃)₂C:CH.CH₂. CH₂.C(CH₃):CH.CHO, one of the chief constituents of lemon-grass oil and of the oil of stituents of lemon-grass oil and of the oil of citrus fruits. It is formed by the oxidation of geraniol and is employed to adulterate rose-oil. It is used in the preparation of ionone, the artificial oil of violeta. Also called citral and 2,6-ottantely-2,6-octaderal-8.

Geraniales (jē-rā-ni-ā'lēz), n. pl. [NL. (Lindley, 1833), Geranium + -ales.] A large order

ley, 1833), (Geranium + -ales.] A large order of dicotyledonous, chiefly choripetalous, plants, characterized by flowers with distinct petals and sepals, the stamens usually as many as the sepals and opposite them, and a superior compound ovary. The order embraces 20 families, of which the most important are the Geraniaceæ, Oxalidaceæ, Linaceæ, Rutaceæ, Balsameaceæ, and Euphorbiaceæ.

mined composition contained in the rhizome of Geranium maculatum. Also geranin.

the direct coal-tar color. It dyes unmordanted

A curect coal-tar color. It dyes unmordanted cotton red in a salt bath.

geraniol (jē-rā'ni-ōl), n. [gerani-um + -ol.]

A colorless liquid, (CH₃)₂.C:CH.CH₂.CH₂C (CH₃):CH.CH₂OH, with an odor of roses. It is isomeric with borneol camphor, and is found in German and Turkish oil of roses, in geranium oils, and in various citronella and eucalyptus oils. It boils at 115-120°C. under 15 mm. pressure, is the alcohol of geranial, and is also called rhodinol and 2,6-dimethyl-2,6-octadienol-8.

geranium, n. 5. An impure magents which contains phosphene.—Geranium-oil. See *oil.—Ivyleaved geranium, Pelargonium peltatum, an old-fashioned window and conservatory plant with three-lobed ivy-like leaves, mostly pinkish or purplish flowers, and a decumbent or trailing habit of growth. It is much used for hanging-baskets and lawn-vases. The cultivated forms are mostly much varied by domestication and perhaps by hybridization.—Rock geranium, a plant of the genus Heuchera; alum-root. The species are rock-loving plants with geranium-like leaves and with an astringent root like that of Geranium maculatum. See alum-root and Heuchera, with cut.—Spotted geranium, the spotted crane's-bill, Geranium maculatum: the name refers, as does also the specific name, to the spotted or blotched mature leaves.—Wild geranium, any uncultivated species of Geranium or crane's-bill. In the eastern United States most often the spotted geranium, an maculatum. Very widely diffused and common is the rather weedy G. Carolinianum, Carolina crane's-bill, with inconspicuous whitish flowers. Another wild geranium is G. visconisrimum, ranging from Saskatchewan to California, wrongly suspected of poisoning stock.

geranyl-acetate (jer'a-nil-as"e-tāt), n. [gegeranium, n. 5. An impure magenta which con-

γηρατ-), age, + -ic.] Relating to old age; decadent

gerenuk (ge-re-nök'), n. [E. African.] The native name, adopted as a book-name, for Waller's gazelle, *Lithocranius walleri*, an excessively long-necked species found in East

Gergonne point of a triangle. See *triangle. Germ variation. See *variation. See *triangle. German chest, furnace. See *chest!, *furnace.—German horisontal plane. Protestant, seeame-oil, standard candle. See *plane!, *Protestant, etc.

standard candle. See *plane1, *Protestant, etc.
germander, n.— American germander, Teuerium
Canadense. See Teuerium (with cut).— Garlic germander, the water-germander, Teuerium.— Garlic gerchickweed, speedwell. See *teuerium.— Germander
chickweed, speedwell. See *teuerium.— Germander
chickweed, speedwell.
Madeira germander, Teuerium betonicum, native in
Madeira germander. Same as poly.— Tree-germander,
Poly germander. Same as poly.— Tree-germander,
Teuerium fruticans. See tree-permander and Teuerium.
— Wall germander, Teuerium Chamædrys. See germander and Teuerium.— Wild germander. (b) The
wall germander. (c) Same as wood *germander.— Wood
germander, Teuerium Scorodonia, also known as woodsage (which see, under sage?). See also Teuerium.
Germania! (jer-mä'ni-ä), n. [L.] Germany
personified.

personified.

germania² (her-mä-nē'ā), n. [Sp. germania, hermania, lit. 'fraternity,' (germano, hermano, brother: see german'.] Gipsy-language; thieves' cant; jargon; gibberish.

germanium, n. The discovery of this chemical element in 1885 constituted the third verification of Mendelejeff's prediction that elements, unknown when his periodic law was pointed out, would later be discovered having approximately certain atomic weights and certain properties which he indicated. Germanium has been found in argyrodite from Saxony and also in minerals from Bolivia.

Germanize, v. II. intrans. To become German in habits, feelings, sympathies, tastes, etc.

Germanomania (jer'ma-nō-mā'ni-ä), n. [L. Germanus, German, + Gr. μανία, madness.] A mania or marked predilection for things German; a pronounced fondness for Germans and German ways

Germanomaniac (jer'ma-nō-ma'ni-ak), n. One who carries to excess his fondness for

German things and ways.

Germanophilist (jer-ma-nof'il-ist), n. [L. Germanus, German, + Gr. φίλος, loving, + -ist.]

One, not a German, who is friendly to Germany and the Germans, their institutions, aims, ways, etc.

Whether you believe in Diez as an oracle, as some Germanophilists do, or doubt him, . . . everyone dealing with Romance etymologies, must at least see what he says.

The Reader, June 11, 1864, p. 744.

Germanophobe (jer'ma-nō-fōb), n. [L. Germanus, German, + Gr. -φόβος, 〈 φοβεῖν, fear.] One who fears, distrusts, or dislikes Germany

One who fears, user as, and the Germans.

"About this time," as the old almanacs used to say, "look out for storms." These will be raised by the extreme Germanophobes of England over the news given in "The Standard" of London on Monday and reported by our London correspondent in his cable dispatches of the same day.

"Y Tribune, April 15, 1908.

Germanophobia (jer'ma-nō-fō'bi-8), n. [NL., ⟨ L. Germanus, German, + Gr. -φοβία, ⟨ φοβείν, fear.] Morbid dread or distrust of Germany and her policy; unreasonable dislike of German ways or things.

Germanophobic (jer'ma-nō-fō'bik), a. Of, pertaining to, or characteristic of Germanophobists or Germanophobia.

Germanophobist (jer'ma-no-fo'bist), n. One who hates or distrusts Germany.

germantown (jer'man-toun), n. [Germantoun, a suburb of Philadelphia.] A carryall with a standing top, first built at Germantown, Pennsylvania, in 1816: the first vehicle of the

germ-ball (jerm'bâl), n. In trematodes, as a larval Distomum, one of the more or less spherical masses of cells of different sizes out of which a redia is formed, the latter in its turn containing a new generation of germballs. See cercaria and redia.

palls. See cercaria and redia.
germ-band (jerm'band), n. See *band².
germ-case (jerm'kās), n. A case or sac inclosing germs or reproductive cells.
germ-cell, n. 3. In biol., a reproductive cell;
an ovum or spermatozoön: opposed to body
cell, or somatic cell.
germigena (jab'm; jān) n. [7]

germigene (jer'mi-jen), n. [L. germen, a germ, + Gr. -yevn, -producing.] A germarium, especially of cestode and trematode worms. Syd. Soc. Lex.

germigenous (jer-mij'e-nus), a. [L. germen, germ, + Gr. -γενης, -producing, + -ous.] Producing germs: as, a germigenous gland.

germin, v. See germine, v. germinability (jer'mi-na-bil'i-ti), n. Capacity of germinating; viability.

The experiments were too limited in number to warrant any conclusion concerning the difference, if any, in the germinability of the heavy and light seed, either as to the time the sprouts appeared or the number produced.

1 Learbook, U. S. Dept. Agr., 1896, p. 322.

germinable (jer'mi-na-bl), a. Capable of germinating or proliferating; viable.

It being taken for granted that the selection shall be made only from sound, pure, and germinable stock.

Yearbook, U. S. Dept. Agr., 1896, p. 306.

nade only from sound, pure, and germinable stock.

Yearbook, U. S. Dept. Agr., 1886, p. 306.

Germinal area, a part of a germ-cell supposed to be set apart, before development begins, for the formation of a specific part of the future organism. See *germinal localization.— Germinal cell. See *cell.— Germinal continuity.

(a) The established fact that since a germ-cell arises by a process of division which multiplies but does not interrupt the continuity of the preëxisting cell, and since the new organism arises in the same way, there is not and has not been any break in the continuity of the organic world. (b) The doctrine that the fertilized egg, when it begins its development, soon divides into a somatic portion (destined to produce germ-cells) and a germinal portion which gives rise to cells, some of which, sooner or later, give rise to the sexual cells in the body of the organism which arises from the egg, so that inheritance is always from germ-cell to germ-cell, without the intervention of somatic cells. See *somatic cell, *germ-cell. (c) The doctrine that the line of connection between the fertilized egg and the germ-cells of the organism that is produced from the egg is not through the continuity of cells, but through continuity of the hereditary substance or germ-plasm which is transmitted from the egg along certain lines of somatic cells are, as such, out of line of descent to future generations, and the germ-plasm which some of them are supposed to contain and transmit is of the new organism are to be formed. According to this opinion the somatic cells are, as such, out of line of descent to future generations, and the germ-plasm which some of them are supposed to contain and transmit is of the nature of a foreign body. See substance of *heredity, *kgerm-plasm.—Germinal groove. See *groove.—Germinal layer. Same as germ-layer; one of the three layers, eccoderm, mesoderm, or entoderm, from which the embryo develops.—Germinal localization, the supposed localization in an egg, either after or before fer

On one view it is supposed that the germ-cell has an architectural organization predetermined before development begins, and that development is in part a "histogenetic sundering" of the pre-existing germinal localization.

Encyc. Brit., XXXII. 212.

Germinal matter, actively living matter. Same as protoplasm. Beale, 1801.—Germinal path, the series of cells which intervenes between the fertilized egg and the germ-cells of the organism that arises from the egg. See *germinal continuity.—Germinal selection. See *se-

germinater (jer'mi-nā-ter), n. That which causes or induces germination; specifically, an appliance for testing the vitality of seeds. See *germinating-chamber.

germinating-chamber (jer'mi-nā-ting-chām'-ber), n. A box devised to furnish, artificially, conditions of temperature, moisture, and light which are favorable to the germination of seeds samples. A standard germinating-chamber, adopted by the American experiment stations and the United States Department of Agriculture is made with double copper walls forming a water-jacket, a side door, trays for the seeds, etc.

germiparity (jer-mi-par'i-ti), n. [germipar-ous + -ity.] Reproduction by means of germs or germ-cells.

germ-cells.

germiparous (jer-mip'a-rus), a. [Irreg. < L.
germ(en), a germ, + parere, bring forth, bear.
The formation would prop. mean 'producing
germs.'] 1. Bearing or producing germs.—2.
Reproducing by means of germ-cells or germs.
germ-mass (jerm'mas), n. A mass or aggregation of cells which will develop into the
whole or some portion of the embryo.

Germo (jer'mō), n. [NL., < F. germon, a popular name of the dolphin and the albacore.] A
genus of scombroid fishes, including the longfinned albacore, Germo alalunga, widely distributed in the open seas in warm regions, a
large fish with remarkably long ribbon-shaped large fish with remarkably long ribbon-shaped pectoral fin.

germogen (jer'mō-jen), n. [L. germ(en), germ, + Gr. -yevŋc, producing.] A syncytium or nucleated mass of protoplasm from which the reproductive or germ-cells arise. The germogen is clearly seen in the ovaries of insects.

germ-plasm (jerm'plazm), n. Same as germgerm-plasm (Jerm plazm), n. Same as germ-plasma.—Accessory germ-plasm, the germ-plasm to which, according to Weismann, the formation of new organisms by budding is due. In order to account for the origin from a bud (which at first is part of the body of the organism which produces it) of a new organism which may come, in time, to exhibit the characteristics of the species, to produce germ-cells, and to propagate its kind, Weismann propounds a supplementary hypothesis according to which somatic cells that are predestined to produce new beings from buds receive germ-plasm from the egg in addition to their proper idioplasm. Since begonias and

sea-anemones and many other plants and animals may produce new and perfect representatives of their species from that this substiliary hypothesis is, in effect, the shandous ment by Weismann of the whole doctrine of germ-plasm (see below), which is based upon the opinion that germ-cells and body-cells are fundamentally and completely different.—Blastogenic germ-plasm, the germ-plasm of germ-plasm, the theory of Weismann concerning the intituates structure of germ-plasm (or ancestral dioplasm, or the substance of inheritance), according to which it is regarded as made up of innumerable biophores, each of which is the bearer of the herotitary qualities of an organism and are identified by Weismann with the chromatin granules or each of which is the bearer of the herotitary qualities of an organism and are identified with the chromasomes or robar of robars of chromatin. The germ-plasm of an organism and are identified with the chromasomes or robar of robars of chromatin. The germ-plasm of an organism and so it and to the cells that it is destined to produce during the development is held to be accompanied by, and to consist in, the disintegration of an id by differential cell division, until finally only one determinant remains to give to the cell its inherited characteristics. While development is going on, the series of cells which are to give to the cell its inherited characteristics. While development is going on, the series of cells which are to give to the cell its inherited characteristics. While development is going on, the series of cells which are to give to the cell its inherited characteristics. While development is going on, the series of cells which are to give to the cell its inherited characteristics. While development is going on, the series of cells which are to give to the cell its inherited characteristics. While development is going on, the series of cells which are to give to the cell its inherited characteristics. While development is going on, the series of cells which are to give to the pl

But, from the standpoint of casual morphology, it must be asked what determines the arrangement of the different be asked what determines the same germ-regions in the ovum.

J. Loeb, Biol. Lectures, 1894, p. 49.

germ-sac (jerm'sak), n. Same as *germ-case. germ-spot (jerm'spot), n. The nucleolus of the germinal vesicle, or nucleus of the unfertilized

egg; the germinal spot.
germ-stage (jerm'stāj), n. A stage in the early
development of an organism; the state of be-

ing a germ.
germ-tract (jerm'trakt), n. The series of cells
which constitute the direct line of descent or cell-lineage from the original egg through the developing germ-cells of the embryo to the

developing germ-cells of the embryo to the mature germ-cell that will give rise to another organism. Weismann.

germ-yolk (jerm'yōk), n. In embryol., the portion of the yolk which is assimilated by the cells that go to form the *germ-mass (which see): opposed to the food-yolk, which is absorbed by the older embryo or young animal. Owen, 1855.

Owen, 1855.
geromarasmus (ger'ō-ma-raz'mus), n. [NL., ⟨ Gr. γῆρας, old age, + μαρασμός, wasting.]
Atrophy of all the tissues due to old age.
geromorphism (ger-ō-môr'fizm), n. [Gr. γῆρας, old age, + μορφή, form, + -ism.] Presence in a young or middle-aged person of the characteristics of old age; premature senility.
Geronomite (je-ron'ō-mīt), n. [Sp. It. geronomita (ML. Hieronymita), ⟨ Geronomo, ⟨ LL. Hieronymus, Jerome.] A member of the monastic community which took St. Jerome as their patron saint. as their patron saint.
gerontarchical (ger-on-tär'ki-kal), a. [*geron-

gerontarchical (ger-on-tār'ki-kal). a. [*geron-tarchy (⟨ Gr. γέρον (γεροντ-), an old man, + ἀρχή, rule) + -ical.] Of or pertaining to government by old men; establishing or setting up government by old men. See gerontocracy. gerontastic (ger-on-tas'tik), a. [gerontasty + -ic.] In paleon., having the properties of or belonging to senile age in the development of sealers.

of a colony.

gerontasty (ger-on-tas'ti), n. [Gr. γέρων (γερωντ-), an old man, + ἄστν, a city.] In paleon., a senile colony (as of corals or graptopaico. lites)

gerontatrophy (ger - on -tat' $r\bar{o}$ - fi), n. [Gr. $\gamma \epsilon \rho \omega \nu (\gamma \epsilon \rho \omega r^{-})$, an old man, $+ a \tau \rho o \phi (a, a trophy.]$ Same as $\star geromarasmus$.

gest, n. and v. A simplified spelling of guest. gestate (jes'tāt), v. t.; pret. and pp. gestated, ppr. gestating. [L. gestare (pp. gestatus): see gestation.] To carry in the womb during the natural period of fetal development; hence, figuratively, to form and gradually mature (some project) in the mind, to be brought forth in dua time. in due time.

gestation, n.—Abdominal gestation. See *abdominal.—Ectopic gestation. Same as extra-uterias pregnancy (which see, under pregnancy).—Mural gestation or pregnancy, a condition in which the ovum has been arrested and its development is taking place in the part of the Fallopian tube which passes through the wall of the uterus.—Tubal gestation. Same as tubal pregnancy.

gestative (jes'tā-tiv), a. [NL. *gestatīrus, < L. gestare, gestate.] Of or pertaining to gestation: as, the gestative process.
gesticulant (jes-tik'ū-lant), a. [L. gesticulans, ppr. of gesticulari, gesticulate.] Gesticulating. Ruskin.

lating. Ruskin.
gesticulative (jes-tik'ū-lā-tiv), a. [gesticulate+-ive.] Characterized by or accompanied with gesticulations.

Diodorus Siculus asys that they [the Gauls] . . . drank with such violent eagerness as either to stupefy themselves to aleep or enrage themselves to madness. He also calls them "extravagantly avaricious" and testifies to their disorderly and gesticulative fits of rage.

Farrar, St. Paul, I. 474, note.

gesundheit (ge-sönt'hit), n. [G., < gesund, sound in health, +-heit, E.-hood.] Health.—Zur gesundheit, 'to your health,' a good wish addressed by Germans to one who has just sneezed. get1, v. I. trans.—To get a pair of spectacles, in cricket, to fall to score in both innings of a match.—To get it, to 'catch it'; come in for: as, he got it when he was caught. [Colloq.]

II intrans.—To get a bout. (a) To boom to

was caught. [Colloq.]

II. intrans. To get about. (a) To become known; leak out. (b) To be about again as after an illness or period of confinement to the house.—To get away with, to succeed in carrying off; make away with.—To get back, to return.—To get clear, to regain one i reedom; become free from entanglements; be absolved.—To get forward, to make progress; advance.—To get loose, to be disappointed; fall. [Slang.]—To get loose, to become disentangled; succeed in freeing one self.—To get on to, to become aware of; 'catch on'; understand. [Slang.]—To get out. (c) In racing, to escape loss by backing the horse against which one had already bet.—To get up. (d) In cricket, of the ball or the bowler, to rise off the pitch higher than usual; to bump. get1, n. 3. In coal-mining, the output of a mine

get1, n. 3. In coal-mining, the output of a mine

get¹, n. 3. In coal-mining, the output of a mine during a stated season or period.—4. Gain; wages; specifically, a blacksmith's wages under the Crowley system. [Prov.] get⁴ (get), n. [Aram. get.] A bill of divorce among the Jews. Like the ketuba, or marriage contract, this document is drawn up in the Aramaic language, uniformly worded and carefully written by a proper scribe. The orthodox form must contain twelve full and equal lines (neither more nor less) to agree with the nu-

merical value, in Hebrew of the letters G.T. After certain preliminary ceremonies and questionings by the rabbi, particularly as to whether both parties agree to the divorce, the husband hands the get to his wife in the presence of ten witnesses. In the get is contained the date, the names and surnames of husband and wife and of their fathers, and also the name of the city, and its location (whether near river or sea). After the first lines containing the date, it runs: ... "I, N, son of N, of the city of N, situated on the river N, set thee free, my wife N, daughter of N, of the city of N, et cetera. Thou artset free and art at liberty to marry any man whom thou mayst choose. This document from me is a letter of divorcement and liberty according to the law of Moses and Israel."

[Set a (gā'tă), n. [Jan 1] Wooden classes.]

[Set a Monotropa.

[See Monotropa.

[Sea Monotropa.

[Sea

geta (gā'tä), n. [Jap.] Wooden clogs worn out of doors by the Japanese.

getatability (get-at'a bil'i-ti), n. The quality of being getatable or attainable; accessibility. [Collog.

getatable (get-at'a-bl), a. Accessible; that may be reached or attained; attainable. [Colloq.]

gey, a. See gay¹, 7.
geyser, n. 2. A gas-burning apparatus attached to a bath for the purpose of heating water for the bath.

The victim in this case, a young man, was asphyxiated in his bath by the CO-containing fumes escaping from a badly constructed and unventilated "geyser."

Nature, June 2, 1904, p. 119.

geyserine (gī'ser-in), a. [geyser + -inel.] Of or pertaining to geysers; originating through the agency of heated waters, as geyserite. Smithsonian Rep., 1899, p. 359.
Geyserite terrace. See * terracel.
g. gr. An abbreviation of great gross.

ghaffir (ghä-fēr'), n. [Ar. ghafir or hafir.] A native Egyptian policeman. [Anglo-Egyptian.]

gharial, n. See gharrial. ghazi (gä'zē'), n. [Ar. ghāzī.] Among Mo-hammedans, a warrior, especially one who has been victorious over infidels; a popular 'hero.'

ghee, n. 2. The solid fat obtained from the seeds of Madhuca butyracea, a tree found in northern India. It is used as a food, and also for an ointment, and in making soap and

gherkin, n.—Bur gherkin, the small, oval, spiny fruit of Cucumis Anguria, an annual cucurbitaceous vine distributed from the southern United States to the West Indies and Central and South America. It is used as a substitute for the common cucumber, especially in pickles. Called also West Indian gherkin, Jamaica cucumber, and gooseberry-gourd.—West Indian gherkin. Same as bur stabergin.

ghoom (göm), v. i. To search for big game by wandering alone after dark in a haunt of the animal. [India.]

Then Capt. G. tells about "ghooming" for bears. "Ghooming" (expressive word!) is, it appears, wandering around alone in the dark, and must be a queerish sport. However, after a night spent in this fashion, (and a bear slain,) you read how the Captain trailed back to his camp and fell asleep.

N. Y. Times, Sat. Rev., Aug. 12, 1905, p. 527.

ghost, n. 9. One who does literary, legal, or artistic work for another, who gets all the credit; one who 'devils' for another.—10. A false line in a diffraction-spectrum caused by certain periodic irregularities in the ruling of the grating which produces the spectrum. Ghosts usually occur in pairs accompanying a conspicuous line on each side of ft and near it. See grating.

11. A red blood-corpuscle from which the coloring-matter or hemoglobin has estable to match the coloring-matter or hemoglobin has estable to match the coloring produces the spectrum. red coloring-matter or hemoglobin has caped.

Whether this increase of permeability persists when the corpuscles have been reduced to ghosts by the escape of the hæmoglobin I am unable to say.

**Jour. Exper. Med., March 17, 1902, p. 267.

Ghost ophthalmoscope. See *ophthalmoscope. ghost-candle (gost'kan'dl), n. A candle which is kept burning in a death-chamber for the

is kept burning in a death-chamber for the purpose of frightening away ghosts.

ghost-dance (gōst'dans), n. A ceremonial of a number of North American tribes, of recent origin, and developed from the Messianic doctrines of Indian prophets who prophesied the return of the dead and the extinction of the trines of Indian prophets who prophesied the return of the dead and the extinction of the whites. These religious ideas and the related rites originated in Utah and spread as far east as the Mississippi river. They were most potent about the year 1890.

ghost-demon (gōst'dē'mon), n. In folk-lore, a ghost that has become a demon.

We may trace up from the psychology of the lower races the familiar ancient and modern European tales of baleful ghost-demons.

E. B. Tylor, Primitive Culture, II. 113.

ghost-flower (gost'flou'er), n. The Indian-pipe: so called with reference to the white-

ghosty moon.
ghoulishly (gö'lish-li), adv. In a ghoulish manner; with ghoulish eagerness.
glallolino (jäl-lō-lē'nō), n. [It., later giallorino, < giallo, yellow.] A yellow pigment the nature of which is doubtful; perhaps a light yellow ocher or possibly a sulphid of antimony.
Naples yellow, which is assumed by some to be the same as giallolino, is a mixture of white lead and chrome yellow.

giant, n. 4. In gold-mining, a large nozle used hydraulic work. See cut under hydraulic.

— Walting giant, a whirling column of sand gliding along over the ground; a sand-whirl.

giantism, n. 2. Abnormal growth or develop-

giantism, n. ment, especially as regards height.

Lancaster shows how many organisms slide down the phyletic scale and react to an ever less complex environment. . . . In giantism the human skeleton may revert to a state that suggests that of the gorilla.

G. S. Hall, Adolescence, I. 337.

giantize (ji'an-tīz), v. i. and t.; pret. and pp. giantized, ppr. giantizing. [giant + -ize.] To play the giant; make as big as a giant. glb¹, n. 4. (b) The wedge or adjusting-shoe by which wear is taken up at a sliding contact, such as a cross-head moving on guides.—6. A prism.—7. The hooked mandible of the male salmon or trout which is formed during the

sandon or trott which is formed during the breeding-season.

gibbed (jibd), a. [$gib^1 + -ed^2$.] In mech., provided with gibs; having lips, or hooks, which hold a piece in place, while permitting

it to slide. The gibs are usually so arranged as to provide for taking up wear in the bearings.

gibber⁴ (gib'er), n. [Native Australian.] A big stone or boulder; an overhanging rock.

big stone or boulder; an overhanging rock.

[Australia.]

glbber⁵ (jib'er), n. A balky horse; a jibber.

Gibbera (jib'e-ra), n. [NL. (Fries, 1825), <

L. gibber, humpbacked.] A genus of pyrenomycetous fungi of the family Cucurbitariaceæ, having black perithecia seated upon a stroma and beset with stiff bristles. The spores are brown and uniseptate. G. Vaccinii is parasitic upon twigs of the cowberry, Vaccinium Vitis-Idea.

Gibbera (jib-e-rel'a), n. [NL. (Saccardo 1877), < Gibbera + dim. -ella.] A genus of pyrenomycetous fungi of the family Hypocreaceæ, having somewhat dark-colored fleshy perithecia seated either on a stroma or on the surface of the host. The spores are hyaline

sid-loops for the reins when using it as a curb.

gig-flock (gig'flok), n. The short fibers which are torn from the fabric during the process of gigging, or napping.

gigglement (gig'l-ment), n. [giggle + -ment.]

Giggling.

Giglisaw. See *saw.

Giglisto (jēl-yiš'tō), n. [It., < giglio, < L. lilium, | 1. A silver coin of Sicily, of the | Knights of St. John of Jerusalem at Rhodes, | 2. A silver coin of Sicily | 3. A silve

surface of the host. The spores are hyaline or yellowish and 2- or more-celled. G. pulicaris is common on branches of various trees.

Gibbonsia (gi-bon'si-ä), n. [NL., named after Dr. Wm. P. Gibbons, a California naturalist.]
A genus of small blennies found among the seaweed-covered rocks along the coast of California California has been small blennies.

ifornia. G. elegans is the common species.

Gibb's vector method. See *vector.

gib-plate (jib'plat), n. A plate or strap which holds in place the piece to which it is fastened and yet leaves it free to move in a prescribed

gift, n.—Indian gift, a gift that may be reclaimed; a gift 'with a string.'—Onerous gift, in law, a gift conditioned upon the performance of something by the donee. gig1, n. 3. (e) In machine-shop practice, a portable appliance for holding a piece of metal upon a machine and presenting it, successively, in two or more positions, to the cutting-tools: also used to assist in guiding the tools to the work. It is made in many forms and is used work. It is made in many forms and is used upon a great variety of machines. It is com-monly employed in making standard parts of machines, tools, or motors. - 5. In policy, a

megaloblastic type.

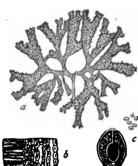
gigantocyte (jī-gan' tō-sīt), n. [Gr. γίγας (γίγαν-), giant, + κύτος, a hollow (a cell).]

A non-nucleated red blood-corpuscle of large

varia.

Gigartina (jig-är-tī'nä), n. [NL. (Stackhouse, 1809), ζ Gr. γίγαρ-τον, a grapeτον, a grape-stone.] A red seaweed, related to Chondrus or Irish MOSS. It occurs commonly on both the Atlantic and Pacific coasts and is abundant in the temperate and colder waters of Europe. It is used with other algæ for the manufacture of agaragar.

gig - back (gig' bak), n. A quick-return motion; specifically, a mechanism for re-turning a saw-



a, plant, one third natural size; θ , cross-section of a small portion of fertile frond, enlarged; c, vertical section of a tubercle and spores from the same, highly magnified.

mill-carriage after the cut has been made, the return travel being at a higher speed than the cutting.

gig-bit (gig'bit), n. A straight cheek-bit with rein-rings at the ends of the mouthpiece and side-loops for the reins when using it as a curb.

and of the kings of Cyprus of the Lusiguan line. It is named from the terminal embellishment of a cross on the reverse.—2. A Tuscan gold coin, the sequin, also called the ruspo.

gil, n. and v. A simplified spelling of gill. gil, n. and v. A simplified spelling of gill.

Gila (hē'lā), n. [NL., < Gila (river).] A genus of cyprinoid fishes or chubs, found in the Gila river in Arizona, known as hardtails. The fiesh is very dry and flat in flavor; the bones of the tail are long and slender, with a large caudal fin. G. elegans is the common species.—Gila trout, a name sometimes applied to Gila elegans, a cyprinoid fish found in the Gila river: unlike and unrelated to the trout.

gilbert (gil'bert), n. [Named for William Gilbert (1540-1603).] A proposed unit of magnetomotive force having the value 10 = .7958 ampere-turn.

ampere-turn.

gilbertage (gil'ber-tāj), n. A name proposed

gilbertage (gil'ber-tāj), n. A name proposed for the magnetomotive force, in gilberts, of a magnetic circuit: suggested by the term voltage for electromotive force. [Rare.] Gilbertia (gil-ber'ti-ä), n. A genus of serranoid fishes of the South Pacific Ocean. Gilbertina (gil-ber-ti'nä), n. [NL., named from Dr. Charles H. Gilbert.] A genus of small soft-bodied sculpins, extremely degenerate in structure, found in the deep waters of the channels of southern Alaska. G. sigolutes is the known species.

of the channels of southern Alaska. G. supulutes is the known species.

gil-cup, n. See *gill-cup.
gild¹, v. t. 7. To electroplate by depositing a layer of gold from an electric bath.—8. To eat the alloy out of (a low-grade gold) by means of an acid, leaving the fine gold on the surface.

groups of plants which depend for their existence on other plants. The gilds (G. genomenschaften), according to Schimper, are four in number: gild2, n.

lianes, epiphytes, saprophytes, and parasites. See epi-phyte, 1, *liana, parasite, 2 (c), and saprophyte. (b) A group of species which, owing to their like adaptations under fit conditions, invade a new region together and in mass. Pound and Clements.

gilding, n.—Chemical gilding, gilding by immersion in a solution of a chemical compound of gold, without using an electric current.

gilding-metal (gil'ding-met'al), n. Rolled sheet-brass from which cartridge-shells are

gil-guy, n.— To make a gil-guy, to perform an unseamanlike piece of work.

Gilia, n. 2. [l. c.] Any plant of the genus Gilia.

For species known by For species known by other names see *bird'soye, 1 (d), *skunkweed, and standing - cypress.

—Bluegilia, the Californian Gitia Chamissonis and the related G. capitata and G. achillexfolia. G. Chamissonis forms masses of bright deep blue in the fields near San Francisco; G. capitata (from which the former is not always distinguished) is a similar, more delicate plant known in cultivation, as is also G. achillexfolia, a species with the leaves dissected like milifoli. All three have the flowers in heads, those of the last-named larger and less compact.— Fringed gilla. See *ground-pink.—Scarlet gilla, Gilia aggregata, a species diffused from Nebraka to the Sierra Newada of California and south to Texas and Mexico. It is a viscid plant, a biennial with stems 2 to 4 feet high, the leaves pinnately divided, the flowers in small clusters, standing out horizontally, other names see *hird's-



leaves pinnately divided, the flowers in small clusters, standing out horizontally, the delicate corolla tubular with spreading border, 1 to 14 inches long, predominantly function as which seven a same as which seven (d.) gilingan (gē-ling'gān), n. [Tagalog gilingan (gilinggan), < giling, grind in a mill.] In the Philippine Islands, a hand-mill for husking rice.

The grain is separated from the straw by thrashing, or by use of wind whenever possible, and is finally separated from the husk by pounding two or three times in a wooden mortar, called a "lusong," or by making use of a sort of handmill, called guilingan.

Gaz. Philippine Is., 1902, p. 71.

gill1, n.—Extrapulmonary gill, in some snails, as Ancylus, a gill-like organ situated within the pulmonary sac and thought to be used for aqueous respiration.—Pericardial gill, in nudbranch molluaks, one of the folds on the dorsal wall of the pedicardium.—Rectal gills, a remarkable arrangement of tracheal gills in the rectum of the nymph of the dragon-fly. The rectum is lined with six double longitudinal ridges of either very delicate papille or lamelle, both papille and lamelle being provided with very numerous tracheal branches.—Tracheal gills. They are tubular or leaf-like expansions of the body integument, richly supplied with tracheal branches and with a very delicate integument through which the oxygenation of the blood or tracheal air is effected. These gills are common among the aquatic larve of certain groups of insects.

gill4, n. 3. An English penny or quarter bit.

gill4, n. 3. An English penny or quarter out. [British Guiana.]
gill6 (gil), n. [Compare gillie.] A fellow or 'cove': as, a queer gill. [Slang.]
gill-ale (jil'āl), n. [Compare gill5 and alehoof.] The ground-ivy, Glecoma hederacea.
gill-basket (gil'bās'ket), n. A basket-like framework of cartilage which surrounds the branchial region in the cyclostomes or lamprevs.

preys.
gill-books (gil'buks), n. pl. The lamellate
branchise of the king-crab. They are borne on
appendages two to six of the abdomen and are protected
by the enlarged first pair, which are united in the middle The lamellate

gill-cup (gil' kup), n. A buttercup: usually in the plural. Also gil-cup, gilt-cup, and gilty-A buttercup: usually

Gillellus (gi-lel'us), n. [NL., named from T. N. Gill, an American ichthyologist.] A genus of small fishes of the family Dactyloscopidæ, found among the reefs of Florida.

pidæ, found among the reefs of Florida.
gillenin (gi-lē/nin), n. [Gillen + -in².] A
substance said to be the active principle of
American ipecae, Porteranthus trifoliatus (Gillenia trifoliatus of Monch), and other species
of Porteranthus. It is emetic.

chor around when it is hanging from the cat-head or
hawse-pipe.
gimlet-bit (gim'let-bit), n. An auger-bit in
which the cutting edges are drawn into the
wood to be bored by a gimlet-point which
pierces in advance of the paring-edges.

Whittleseya, carry it back to the Paleozoic and connect in
with the Cordaitaceæ.

Whittleseya, carry it back to the Paleozoic and connect in
with the Cordaitaceæ.

Ginkgoaceous (ging-gō-ā'shins), a. Belonging to the plant family Ginkgoaceæ.

Ginkgoales (ging-gō-ā' lēz), n. pl. [Nlpierces in advance of the paring-edges.]

An order

gill-filter (gil'fil'ter), n. In ichth., one of the slender appendages attached to the inner sides of the gill-arches and serving to separate called from the twisted, fluted structure of the slender appendages attached to the inner sides of the gill-arches and serving to separate food from the water and to keep various small substances from the gills. Nature, Nov. 19, 1903, p. 64.

gill-fissure (gil'fish' ūr), n. Same as gillonenina.

opening.

gill-footed (gil'ftit'ed), a. Branchiopodous.

gill-fringe (gil'ftinj), n. The branchial fabric or cord to stiffen it.

membrane or gill-filaments of fishes, on the outside of the gill-arches, and covered by the been damaged or cut by the saw-gin. sneet-brass flow drawn.

gildo (gil'dō), n. [ML. (also congildo), < AS.
gegylda, < gyld, a gild.] In Anglo-Saxon law,
a member of a gild.
gilfish (gil'fish), n. The male salmon during
the breeding-season.

gill-fringe (gil ring), n.
membrane or gill-filaments of fishes, on the
outside of the gill-arches, and covered by the
operculum.
gill-head (gil'hed), n. A machine for preparing flax for spinning. The stricks are combed
out into alivers, which are then combined and combed
into rovings.

into rovinga
gillingite (gil'ing-īt), n. [Gillinge (see def.)
+ ite².] À hydrous ferric silicate, occuring in black masses with earthy fracture, from
the Gillinge mine, Södermanland, Sweden.

gilling-thread (gil'ing-thred), n. A two or more ply twisted linen or cotton thread, used for making gilling nets.
gill-intestine (gil'in-tes'tin), n. The anterior,

respiratory portion of the alimentary tract in primitive vertebrates, as opposed to the stomach intesting or district in the stomach interest in the storage of the sto ach-intestine, or digestive region. Haeckel.

gill-lamella (gil'lā-mel'ā), n. A flat, plate-shaped respiratory organ, as distinguished shaped respiratory organ, as distinguished from a gill-flament; a gill-leaf or gill-leaflet. gill-leaf (gil'lef), n. Same as *gill-lamella. gill-leaflet (gil'lef'let), n. Same as *gill-lamella.

metta.

The ctenidium is made up of two rows of gill-plates or gill-teafets, attached to a ctenidial axis. Philos. Trans. Roy. Soc. (London), 1908, ser. B, p. 189.

gill-pore (gil'por), n. In Balanoglossus, a minute opening which places the cavity of a gill-pouch in communication with the exterior.

This [gill-pouch] in its turn opens to the exterior by a minute gill-pore.

Encyc. Brit., XXVI. 85.

In Balanoglossus, gill-pouch (gil'pouch), n. one of a series of pouch-like cavities arranged in two longitudinal rows posterior to the col-lar, each communicating with the alimentary canal through a gill-slit and with the exterior through a gill-pore.

In most species of Balanoglossus each gill-alit may be said to open into its own atrial chamber or gill-pouch.

Encyc. Brit., XXVI. 85.

gill-run (gil'run), n. Same as gill⁵, 2. gill-sheet (gil'shet), n. The layer or sheet formed by the slivers of flax in a gilling-machine.

gill-spreader (gil'spred'er), n. Same as gill-

ing-machine.

gill-teeth (gil'tēth), n. The spikes or teeth
which project from the fallers in a gilling-ma-

gill-tuft (gil'tuft), n. ments or of arborescent branchiæ, as in certain annelids.

tain annelids.

gillyflower, n.—Dame's-gillyflower. Same as dame'sviolet.—Mock gillyflower, the scapwort or bouncingbet, Saponaria officinalis.—Night-scented gillyflower,
Same as dame's-violet.—Turkey gillyflower, the African
margold, Tagetes erecta. See marigold, 1.

gilly-gaupus (gil'i-ga'pus), n. A tall, awkward, foolish person. [Scotch.]

gilsonite (gil'son-it), n. [From S. H. Gilson
of Salt Lake City.] A very pure form of asphaltum obtained in considerable quantity in
the Uinta valley. near Fort Duchesne. Utah.

phaltum obtained in considerable quantity in the Uinta valley, near Fort Duchesne, Utah. gllt, n. and v. A simplified spelling of quilt. gllt¹, n. 3. In archery, the innermost circle of the target; the gold. gllt-cup (gllt'kup), n. Same as *gill-cup. gllty, a. A simplified spelling of quilty. gimbal-joint (gim'bal-joint), n. A method of suspension which permits of motion about two axes in the same plane, at right angles to each other; a gimbal. other; a gimbal.

gimbal-ring (gim'bal-ring), n. A rynd; the piece on which the upper millstone rests and in the center of which is the cockeye, which

rests on the spindle.

gimel (gim'el), n. [Heb. gimel: see gamma.]

The third letter of the Hebrew alphabet (1), corresponding to the English g in go. Its numerical value is 3.

gimlet, v. t.—To gimlet the anchor, to turn the chor around when it is hanging from the cat-head

stem.

 $gimp^1, n.$ cimp¹, n. 3. In angling, a line in which fine wire is woven, or which is bound or wound with wire to increase its strength.—Gimp lace. See #lace

gin-cut (jin'kut), a. Noting cotton that has been damaged or cut by the saw-gin. ginfuku (gin-fö'kö), n. [Jap., \langle gin, silver, + fuku, belly.] One of the gymnodont fishes of Japan, Spheroides sceleratus. ginger! I. n.—Amada ginger. Same as manginger (which see, under ginger!).—Broad-leaved ginger, Zinziber Zerumbet. See *auxpuhi, 1.—Chines ginger, the rhisomes of Languas zingiberina (Alpiais zingiberina of Baker), which when boiled and preserved in syrup, or candied, form a well-known sweetmest.—Exyptian ginger, Caladium Colocaria. See tarol.—Native ginger, in Queensland, Languas cærulea (Hilenia cærulea of Robert Brown), so named because the whole plant, as well as the rhizome, has the scent and pungency of ginger.—Wild ginger. (b) Any America species of Asarum. (c) in the West Indies, any one of several species belonging to the genera Costus and Alpinia (Renealmás of many authors).

II. a.—Ginger brandy, a cordial made of brandy

II. a.—Ginger brandy, a cordial made of brandy strongly impregnated with ginger.

ginger¹ (jin'jer), v. t. [ginger, n.] To put some 'ginger' into (a person); shake up; re-

gingerbread, n. II. a. Having a fanciful shape, such as is often given to gingerbread; showy but unsubstantial or inartistic: (see gingerbread-work); as, gingerbread fittings on a vacht.

ginger-grass, n.—Oil of ginger-grass. See **oil.
ginger-leaf (jin'jer-lef), n. Same as turkey mullen

*mullen.

gingerline (jin'jer-līn), a. and n. [Also gingelline, gingeline, *gingioline; altered (by assimilation to ginger), from It. ginggiolino, of same meaning, another use of giuggiolino, an East Indian plant, gingili, < Hindi and Marathi jinjāli, Ar. juljūlan, Sp. aljonjoli, etc.: see gingli and *aljonjoli.] 1. a. Of a reddish-yellow color; ginger-colored. [Seventeenth century.]

II. n. The color itself; also a cloth of this color. It was among the stuffs supplied to the North American Indians "for breeches and jackets" by the traders. A. M. Earle, Costume of Colonial Times, p. 114.

gingerol (jin' jer-ōl), n. [ginger + -ol.] A

gingerol (jin' jèr-ōl), n. [ginger + -ol.] A colorless liquid, C₅H₈O(1), with the characteristic pungent taste of Zinziber Zingiber, from the root of which it is extracted.

ginger-plant (jin 'jer-plant), n. The tansy,

Tanacetum vulgare.
ginger-roll (jin 'jer-rol), n. A whalemen's
term for the folds under the throat and belly of the humpback, finback, and sulphur-bottom whales.

ginger-root (jin'jer-rot), n. The coltsfoot, Tussilago Farfara.

gingery (jin'jer-i), a. Ginger-like in properties or appearance: hence, hot; pungent in taste; spicy

spirey.

gingivolabial (jin-jī-vō-lā'bi-al), a. [L. gin-giva, gum, + labium, lip, + -al.] Relating to both gums and lips. Buck, Med. Handbook, VI. 124.

gingkoic (ging-kō'ik), a. [gingko + -ic.] Derived from gingko. Gingkoic acid, a colories, crytalline compound, C₂₄H₄₈O₂, melting at 35° C. It occurs in the fruit of Ginkyo biloba.

gingko-nut (ging'kō-nut), n. A nut or fruit

gingko-nut (ging ko-nut), n. A nut or nut of the gingko-tree, Ginkgo biloba.

ginglymoarthrodia (jing'- or ging'li-mō-ār-thrō'di-ā), n.; pl. ginglymoarthrodiæ (-ē).

[NL., \(\) ginglymus + arthrodia.] An articulation which has both a sliding and a hinge motion.

Ginkgoaceæ (ging-gō-ā'sē-ē), n. pl. [NL. (Engler, 1897), < Ginkgo + -aceæ.] A family (Engler, 1897), (Ginkgo + -aceæ.] A family of gymnospermous plants constituting the order Ginkgoales and typified by the genus Ginkgo: the maidenhair-tree family. It is very anomalous and archaic in most of its characters and is remarkable in having reproduction effected through the medium of motile spermatoxoids, as in the Cycadocæ. Ginkgo is the only living genus, but a number of extinct genera, as Jeanpaulia, Czekanowskia, Rhipidopsia, and Whittleseya, carry it back to the Paleozoic and connectit with the Cordailaceæ.

of gymnospermous plants containing the family *Ginkgoaceæ only (which see). See also Ginkgo, Jeanpaulia, Whittleseya, and *Cordaitales.

gin-mill² (jin'mil), n. A cotton-gin.
ginner² (jin'er), n. One who gins cotton or
clears it from the seed.

The crop, according to the ginners, is 9,996,300 bales, and, according to the canvassing agents, 9,954,106 bales, of an average gross weight of 500 pounds.

N. Y. Tribune, Jan. 6, 1908.

ginnery (jin'e-ri), n. [gin3 + -ery.] An establishment for the ginning of cotton.

The location of the steam-plant for both ginnery and oil-mill at the latter place removes a potent source of danger from the ginnery.

L. L. Lamborn, Cottonseed Products, p. 31.

ginny-carriage, n. 2. A low two-wheeled basket-phaeton, hung on coil-springs. gin-pole (jin'pōl), n. A pole, secured by guyropes, to the top of which tackle for lifting heavy weights is fastened. gin-pulley (jin'pūl'i), n. The sheave or wheel of a gin-block; also, the block itself. gin-race (jin'rās), n. The circular track made by a gin-horse. gin-roller (jin'rō'ler), n. One of the rollers between which cotton is drawn when it is ginned. ginned.

gin-saw (jin'så), n. One of a set of circular saws used in a cotton-gin.

saws used in a cotton-gin.

ginseng, n. Several plants not botanically related to the
ginseng have been so named as possessing similar medical properties, as, in Georgia, the sunflower-like composite
Tetragonotheca helianthoides.—American ginseng,
Panax quinquefolius (see ginseng), native in the wooded
country from Maine through Canada to Minnesota, lowa,
and Missouri, and southward, but in the South Atlantic
and Gulf states only in the mountains. In many parts of
this area it is nearly extinct. The root has long been exported (mostly to China) from Canada and the United
States, the export from the latter from 1858 to 1896 exceeding a total value of \$20,000,000, the amount decreasing,
but the price rising during the period. In recent times it



American Ginseng (Pa One fourth natural size.

has been successfully cultivated in the United States. It requires partial shade, which may be afforded either by trees or by lath sheds. The seeds will not germinate till the second season, and not at all if they once become dry. The roots most in demand are large and heavy, with the fewest possible branches except when, by forking, the human form is imitated. According to Korean authority the American ginseng is inert as compared with the Chinese. In China it is graded below the Korean, apparently about with the 'native.' It is little esteemed in medicine in America. Blue ginseng, the blue cohosh, Caulophyllum thalictroides.—Horse-ginseng, the horse-gencian, Triosteum perfoliatum.—Japanese ginseng, that produced in Japan: graded lowest in China, and regarded as comparatively inert. It is said to be frequently adultarated with the root of Campanula glauca, etc.—Korean ginseng, that produced in Korea, chiefly under cultivation: it is graded next to the Manchurian and is similar in its properties. The cultivated root is said to be smaller than the san-sam or wild ginseng.—Native ginseng, in China, a third grade grown near the borders of Korea, said to be used mainly to adulterate the Korean ginseng.—White ginseng. Same as bius *ginseng</code>, referring probably to the color of the root.

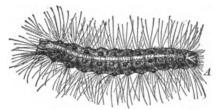
Giotherse (iot-tess'), a. [Giotto di Bondone (1276—

Giottese (jot-tēs'), a. [Giotto di Bondone (1276-1337).] Of or pertaining to Giotto, or resembling his work.

Giottese frescoes of the Franciscan legends.

N. and Q., 10th ser., I. 220.





Gipsy-moth (*Porthetria dispar*).

emale moth. Slightly reduced. (After Ratzeburg.) A, larva; B, fe

experimenting with this insect at Medford, Mass., in 1869, accidentally allowed it to escape, and it has become thoroughly established in the country around Boston, where it has done much damage.

gipsy-rose (jip'si-rōz), n. Same as Egyptian rose (which see under rose1).

gipsy-weed (jip'si-wēd), n. 1. Same as bugleweed.—2. The speedwell, Veronica officinalis.

gipsy-weed the speedwell, Veronica officinalis.

giraffe, n. 5. Same as *giraffe-fever. Buck, Med. Handbook, III. 400.

Giraffe camel, giraffe-necked camel. See

giraffe-fever (ji-raf'fe'ver), n. Same as dengue. giraffesque (ji-raf-esk'), a. [giraffe + -esque.] Giraffe-like in coloration or height.

Protective coloration in large animals is illustrated by the Somali giraffe (well shown by one of Lord Delamere's photographs of a giraffesque thicket). Nature, April 14, 1904, p. 555.

giraffine (ji-raf'in), a. and n. I. a. Resembling a giraffe; giraffe-like.

Professor Ray Lankester has diagnosed it [the Okapi] as a giraffine animal.

Pop. Sci. Mo., March, 1902, p. 429.

II. n. A giraffe-like animal. [Rare.] It [the Okapi] is a giraffine, horned in the male.

Rep. Brit. Ass'n Advancement of Sci., 1902, p. 625.

gird¹, n. 2. Twist, used for binding together the fibers of yarn in the process of spinning. C. Vickerman, Woollen Spinning, p. 296.

C. Vickerman, Woollen Spinning, p. 296.
girder¹, n.— Equivalent girder, in naval arch., a hypothetical girder whose fianges are equal to the decks and bottom of a ship and whose web is equal to the sides and other vertical parts: used in calculating the longitudinal strength of a vessel. White, Manual of Naval Arch., p. 348.— Half-lattice girder. See *klattice-girder.— Open-web girder, a built girder in which the web is composed of a framework like a truss with struts and ties. See web, 5 (d).— Sandwich girder, a girder built up with an iron web-plate between wooden beams, the whole being bolted together.— Skeleton girder, a latticed girder; a girder having an open, braced, or latticed web.—Z-girder, a girder of which the cross-section resembles the capital letter Z; either a single rolled section having a web and one flange on each side, or a built-up section made of a web-plate and an angle on one side at the bottom girderage (gèr'dèr-āj), n. [girder + -age.] A

girderage (ger'der-āj), n. [girder + -age.] A group or system of girders; girders collectively; the total number of girders used.

girder-beam (gér'dér-bēm), n. Same as girderl, 2. Also called girth-beam.
girder-rail (gér'dèr-rāl), n. A
railway-rail having a deep web,
flat base, and wide and shallow
top, adapted to wheels with small
flanges. It is used in electric railreads flanges. It is used in electric railroads where the rails must be laid in a paved street or asphalted or macadamized road. girdle¹, n. 10. A ring made round the trunk of a tree by the removal

of the bark either purposely or accidentally.—11. In earthworms, the cingulum or clitellum.—Neptune's girdle, in med., a form of wetpack applied to the upper part of the abdomen.—Pin and girdle. See **pin1.

girdle-pain (ger'dl'pain), n. A painful girdle-sensation.

sensation.

N. and Q., 10th ser., L 220

gipsy-combs (jip'si-kōmz), n. The wild teazel,
Dipsacus sylvestris.
gipsy-flower (jip'si-flou'er), n. The hound'stongue, Cynoglossum officinale.
gipsy-moth, n. Its larva is very destructive to the
foliage of orchard, shade, and forest trees. A naturalist,

Sirisle.

girdle-sensation.

gipsy woman.

girdle-sensation.

gipsy woman.

gitano (hē-tā'nō), n. [Sp., fem. of gipsy woman.

gipsy woman.

E. Gipsy.] In Spain, a Gipsy (man).

girdle-worm (gèr'dl-werm), n. Same as *cran
berry-girdler.

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girdle-worm (gèr'dl-werm), n. Same as *cran
cockle, Lychnis(Agrostemma) Githago.

L. gyrus, gyre, + -clla.] A genus of perch-like fishes of the family Kyphosidæ, found on both shores of the Pacific. The species are herbivorous, feeding on plants by means of their movable incisors. G. nigricans is the greenfish of the coast of California. Chrellinæ (jir-e-li'nē), n. pl. [NL., < Girella + -inæ.] A subfamily of fishes typified by the genus Girella.

girl, n.—One's best girl, one's sweetheart. [Colloq., U.S.]—Hired girl, a domestic maid-servant.—Second girl, a domestic servant whose duties are chiefly housework and waiting at table, the cook being considered 'first girl.' [Colloq., U.S.]—Bummer girl, one of the young ladies who congregate at the summer resorts. [Colloq., U.S.]—

U. S.]
girling (ger'ling), n. Same as gilling2.
girn2 (gern), n. [A metathesis of grin2.] A
trap or snare for catching animals, birds, etc.:
also used figuratively. [Scotch.]
girn2 (gern), v. t. [girn2, n.] To entrap or
ensnare by, or as if by, a girn. [Scotch.]
giro (jē'rō), n. [It., < L. gyrus: see gyre.] A
round; a turn; a short tour.

Our days here are passed quite deliciously. We see a

Our days here are passed quite deliciously. We see a few beautiful pictures or other objects of interest, . . . and afterwards we have a giro in our gondola, enjoying the air and the sight of marvellous Venice.

George Bliot, in Cross, Life of George Eliot, III. 329.

girofie (zhē-rō'fi), n. [F.: see gillyflower.] The French for clove⁴.— Essence of girofie, oil of cloves. girofiée (zhē-rō-flā'), n. [F. girofiée, gillyflower.]

1. The clove-pink, a species of Dianthus.

Out of the rich red soil underneath the trees are springing violets and narcissus and girofts.

The Outlook, Sept. 2, 1899, p. 65.

2. A basic coal-tar color of the azonium-chlorid type. It dyes tannin-mordanted cotton a reddish violet. Also called methylene-violet and fuchsia.

girouette (jir-ö-et'), n. [F. girouette, earlier gyrouette, gyrouett, prob. < It. giro (< L. gyrus), a turning, + -ouette as in pirouette, a top.] A weathercock; hence, one who is given to frequent change, as in opinions, purpose, etc.; an inconstant reserves.

an inconstant person.

girt¹ (gert), n. A beam; a small girder; a
crosspiece in a frame. [Colloq.]

girt² (gert), v. t. [girt², n.] 1. To measure
or have a girth of: as, the tree girts eight feet.

— 2. To measure by a girding-line.

girth, n.— Combination girth, a harness girth fitted with loops and buckles at each end: a substitute for the two girths.— Fits william girth, a riding-saddle girth composed of one broad piece of web, with two buckles at each end.

posed of one broad piece of web, with two buckles are each end.

girth, v. t. 2. To encircle or surround with a measuring-line, as in measuring moldings, etc.

girth-beam (gérth'bēm), n. A girder.

girth-stretcher (gérth'strech'ér), n. A device for stretching saddle-girths.

girth-web (gérth'web), n. The strong webbing of which girths are made.

girt-line, n. 2. A boundary or bounding line.

Hammock girt-lines (naut.), lines on which scrubbed hammocks are stopped up to dry.

girt-wheel (gért'hwēl), n. The narrow drum under a hand-press which winds and unwinds the leather bands which move alternately in and out the bed of the press which upholds and out the bed of the press which upholds

and out the bed of the press which upholds the form of type.

gisement¹ (jiz'ment), n. Same as *gistment or agistage (which see).

gisement² (zhēz-mon'), n. [F., < giser, lie.]

risement² (zhēz-mon'), n. [F., $\langle giser$, lie.] The way in which a thing lies; position; bearing.

gisernet, n. See guisarme.

Gisortia (ji-sôr'ti-š), n. [NL., < (†) F. Gisors, a town in France.] A genus of platypodous gastropods from the Eocene Tertiary rocks, belonging to the family Ovulidæ and characterized by large, thick shells with short convolute spine.

volute spire.

volute spire.

Gissocrinus (ji-sok'ri-nus), n. [NL., < Gr. yeiozov, yeiozov, eaves, cornice, + kpivov, lily (see crinoid).] A Paleozoic genus of fistulate crinoids belonging to the family Cyathocrinidæ. They have a short calyx with a long, laterally folded ventral sac and regularly bifurcating

gist³ \mathfrak{st}^3 (jist), v. t. An aphetic form of agist which see).

gistment (gist'ment), n. An aphetic form of agistment.

gitana (hē-tā'nā), n. [Sp., fem. of gitano.] A Gipsy woman.

These seeds contain a poisonous sapotoxine-like substance, and are regarded in Europe as the cause of the chronic poisoning or disease of man and animals which is known as githagram.

Yearbook U. S. Dept. Agr., 1900, p. 307.

Citocrangon (git-ō-kran'gon), n. [NL., ⟨Gr. γείτων, a neighbor, + κραγγών, a shrimp or prawn.] A problematical fossil described as a genus of decapod crustaceans from the Upper Devonian rocks of Thuringia.

agenus of decapod crustaceans from the Upper Devonian rocks of Thuringia.

Giton (gī'ton), n. [NL., ⟨ Gr. γείτων, a neighbor, neighboring; prob. (like γείος, adj., indigenous) ⟨γ̄η, earth, land.] A genus of freshwater eel-like fishes found in the waters of Brazil. They belong to the family Gymnotidæ.

giulio (jö'lyō), n. [It., ⟨ L. Julius.] A papal silver coin, one tenth of a scudo: apparently so called from Pope Julius II.

giustina (jös-tē'nā), n. [It., ⟨ L. Justina.] A Venetian silver coin of the value of 11 lire.

—Giustina maggiore, a Venetian silver coin equal to 160 soldi: first struck in 1571, and named from St. Glustina, on whose name-day (Oct. 7) the battle of Lepantows fought in that year.—Giustina minore, a Venetian silver coin also imitated by Cesare d'Este, Duke of Modena (1597-1628).

giv, n. and v. A simplified spelling of give.

give¹, v. I. trans.—Give way together! (naut.), an order for all the earsmen in a boat to pull in unison.—To give it hot, to chastise severely. [Slang.]—To give time, to extend the time, as for the paymentor a debt or the fulliment of a contract.—To give umbrage, to offend.

II intrans.—To give and take to be as ready to fine the servery to the fulliment of a contract.—To give and take to be as ready to the servery.

offend.

II. intrans.—To give and take, to be as ready to give as to receive; even up by fair exchange, as of courtesies, hard knocks, etc.; give tit for tat.—To give best, to give in; give up the contest; acknowledge superiority. (Australia.)

give-ale (giv'āl), n. [give (AS. gifu), gift, + ale.] A memorial festival formerly observed appually in some parts of Kent. England, the

annually in some parts of Kent, England, the cost being defrayed from funds which had been bequeathed for the purpose.

The giveales... were the legacies of individuals, and ... entirely gratuitous; though some of them might be in addition to a common giveale before established in the parish ... "I will that my heires shall have five yards of land lying in Longfield, and five yards in Pettefield, upon condition that they make a yearly geneal on Trinity Sunday of 5 bushels of wheat, and 1 seame of barley..."

Archæologia, XII. 18, 14.

give-and-take (giv'and-tak'), n. and a. I. n. The practice of giving and taking on equal or fair terms; a mutual making of concessions or allowances; exchange, as of ideas, civilities, repartee, jests, banter, etc.; a giving of titfor-tat.

II. a. Characterized by a spirit of giving and taking on fair terms, as in evening up advantages and disadvantages; marked by mutual concession: as, a give-and-take policy.

— Give-and-take plate, in horse-racing, a prize for a race in which the horses carry weight according to their height, those above a certain standard carrying more than those below that standard.

than those below that standard.

give-away (giv'a-wā'), n. 1. An inadvertent or unconscious betrayal of one's self or one's secrets. [Slang, U.S.]—2. A game of drafts or checkers in which the players endeavor to give away their men, the moves being such as to force the adversary to take them; the losing game of checkers.

Givetian (ji-vē'shian), a. In geol., noting a subdivision of the Devonian system in Belgium and the north of France, named from Givet. It constitutes the upper part of the Middle Devonian, and is equivalent to the Stringocephalus limestone of the Eifel, and the Torquay and Plymouth limestones of Devonshire.

gizzard-fish (giz'ärd-fisn), n. A whitefish, Coregonus clupeiformis, found in the Great Lakes.

Lakes.

G. L. An abbreviation of Grand Lodge.

glabellad (glā-bel'ad), aav. [glabella + -aā³.]

Toward the glabella.

glabello-inial (glā-bel'ō-in'i-al), a. In anthrop., pertaining to both the glabella and the inion: as, the glabello-inial length, the distance between the glabella and the inion.

glabello-occipital (glā-bel'ō-ok-sip'i-tal), a. In anthrop., pertaining to both the glabella and the occiput; as, the glabello-occipital length, the maximum length of the head measured from the glabella to the occiput.

length, the maximum length of the head measured from the glabella to the occiput. glabreity (glā-brē'i-ti), n. See glabrity. glabrescent (glā-bres'ent), a. [glabr-ous + -escent.] In bot., becoming glabrous, as organs that are hairy in the bud or young state and glabrous with age. glacial, a. 3. Of or relating to a glacier or an ice-sheet.—4. In chem., assuming the solid state as a result of concentration: used chiefly of contain acids (as eactic supplying and

of certain acids (as acetic, sulphuric, and Great Ice Age, p. 32. phosphoric acids) which are commonly seen as glacier-ice (glā'shier-īs), n. The ice of a gla-

liquids but solidify at low temperatures when concentrated by removal of water. In the case of phosphoric acid, water is not only removed by evaporation but is also evolved by the chemical decomposition of orthophosphoric acid, which is thus converted into metaphosphoric acid, the epithet glacial theory, an attempt by the known changes in the eccentricity of the earth's orbit. The maxima occur once in 100,000 to 200,000 years. At such periods there is an increased difference in the relative lengths of winter and summer. At the extreme the winters are 33 days longer than the summers and the sun's distance from the earth is 90,300,000 miles. It is argued that the extreme cold of such long winters might not be neutralized by the summer temperatures sufficiently to melt away the accumulated snow and ice.—Glacial boundary, the line which separates the intraglacial from the extraglacial field.—Glacial climate, deposit, erosion. See *cirsaate, etc.—Glacial humory, in ged., the theory which accounts of the distribution dirits and erratic boulders and for the scoring of the underlying rock-surface by the former extension of glacier.—Glacial humory which accounts of the distribution of dirits and erratic boulders and for the scoring of the underlying rock-surface by the former extension of glacier.—Glacial meal, rock-flour ground by the grinding action of a glacier or coming from its bed, washed out by a glacier.—Glacial planing, the reduction of a rock surface by glacial erosion.—Glacial scratches, lines scoring, the scratching and grooving of a rock-surface by sand and gravel which are dragged over it by a glacier. See *trivial. 2. Glacial theron.—Glacial theory. See *tlacial hypothesis.]

Sandal aresion.—Glacial theory. See

glacialism (glā'shial-izm), n. [glacial + -ism.]
The scientific theory of the occurrence and action of glaciers

glacialized (glā'shial-izd), a. Having been affected by glaciers.
glaciate, r. t. 4. To act upon by a glacier.
glacic (glā'sik), a. [L. glacies, ice, + -ic.] Same as glacial.

glacier, n. 2. A vessel for holding ice and cooling wine.—Alpine glacier, a glacier of the type now characteristic of the Alps; a glacier which is fed by snow and nevé gathered in an amphitheater and moving down a valley; a valley glacier.—Cliff glacier, a glacier which occupies a relatively small depression in the side of a mountain or in the escarpment of a plateau, and rarely descends much below the snow-line. Chamberlin and Salisbury, Geol., I. 22.—Continental glacier, a sheet of ice which covers a large part of a continent, such as that which now covers. Greenland, or that which covered northeastern North America in the glacial period; an ice-sheet.—Dead glacier, a stagnant glacier; a fossil glacier. J. Geikie, The Great Ice Age, p. 706.—Fossil glacier, in geol., a term which has been applied by Toll and other Russian geologists to the remains of the Pleistocene ice-sheet on the coastal plains of northern Siberia. These ice-beds lie under a thin layer of soil which bears a vegetation, rest upon a ground mortaine, and may be interbedded with frozen clays. From the frozen soil above this old ice carcasses of the mammoth and the hairy rhinoceros have been obtained, retaining flesh, skin, and hair. Also called stone-ice, rock-ice, and dead-ice.—Hanging glacier, a glacier of small size on so steep a slope that the lee breaks off and falls from its lower end. Geikie, Text-book of Gol., p. 540.—Laurentide glacier, a glacier or ginating in the Laurentian highland of Canada.—Malaspina glacier, a pledmont glacier, ap pledmont glacier, ap glacier, ap glacier, ap pledmont st. Elias, is of this type.—Plateau glacier, a glacier or lee-sheet which covers a plateau, is fed by the snowfall on its own surface (not from higher neve reservoirs), and is usually bordered or fringed by one or more descending valley flow an higher glacier. Also called regenerated decement deplacier.—Tidal glacier, a glacier formed by regelation of the snow and ice of avalanches. Dana, Manual of Geol., p. 242.—Regenerated glacier. Same as recement glacier, n. 2. A vessel for holding ice and

ing of the ice may set free vast and destructive floods. Nature, Sept. 29, 1904, p. 541. glacier-face (glā'shier-fās), n. The ice-cliff at the front or lower end of a tide-water gla-

Nothing but glacier-face lined the coast, and the ice flowed down in curving lines as far as the eye could reach.

Geog. Jour. (R. G. S.), XI. 122.

glacier-grain (glā'sbier-grān), n. 1. The granular texture of glacier-ice.—2. One of granular texture of glacier-ice.—2. One of the grains of ice in a glacier. J. Geikie, The

glaciofluvial (glā-shiō-flč'vi-al), a. [L. glaca ice, + fluvius, river: see fluvial.] Of or relating to processes or deposits which involve the action of glacial streams or of streams heading glaciers. Amer. Geol., May, 1903, p. 25. glaciofuviatile (glā-shiō-flò'vi-a-til), a. Same s *glaciofluvial

as *glacionuviui. glaciomarine (glā-shiō-ma-rēn'), a. [L. glacis. ice + marinus. of the sea.] Of or relating ice, + marinus, of the sea.] Of or relating to processes or deposits which involve the joint action of glaciers and the sea, or the action of glaciers in the sea.

glaciometer (gla-shi-om'e-ter), n. [L. glacies, ice, + Gr. μέτρον, meter.] Any device or object which serves to measure the movement of glacier.

glade¹, n.—Codar glades. See ★cedar brakes.

gladiolar (glā-di'ō-lār), a. [gladiolus + -ar3] Relating to the gladiolus, or the portion of the breast-bone lying between the manubrium and the xiphoid cartilage. [Rare.] gladkaite (glad'ka-īt), n. An eruptive rock

gladkaite (glad'ka-īt), n. An eruptive rock forming dikes in the Gladkaia-Sopka ridge of dunite at the head-waters of the Travianta river, in the northern Urals. It consists of placicales (oligoclase-albite) in largest amount, together with biotite, muscovite, hornblende, epidote, magnetite. and pearte. Dupare and Pearce, cited in Nature, June 2, 1906, p. 192.

Gladstonianism (glad-stō'ni-an-izm), n. The policy or policies of W. E. Gladstone (1809-98). a Liberal statesman of Great Britain.

a laberal statesman of Great Britain.

gladsum, a. A simplified spelling of gladsome.
glady (glā'di), a. [glade + -y1.] Having glades;
abounding in glades.
glairigenous (glār-ij'e-nus), a. [glair + i +
-genous.] Giving rise to glairin or mucus.
glam², n. 2. A clamp used in the old method
of castrating horses. of castrating horses.

glamourous (glam'o-rus), a. Full of glamour or alluring charm.
glance, n. 6. In railroading, an incline or shoot made of timber, erected on a mountainside and designed to cause snow which slides down the mountain to glance or turn side from the track. [Northwestern U. S.]—7. In cricket, a stroke by which, instead of being hit, the ball is allowed to strike the bat and to be deflected from it, usually to the leg side: 1 glide.—Northern glance. A sailors' name for the aurora borealis.

yery highly; burnish; planish.—5. In crickt to allow (the ball) to meet the bat and to be deflected from it, usually to the leg side. glance, v. t.

glance-cobalt (glans'kō'bâlt), n. Same as cobalt-glance or cobaltite.

glance-fish (glans'fish), n. A common name of Lampris luna, a cosmopolitan fish found in open waters of the Atlantic and Pacific; the opah.

glance-pitch (glans' pich), n. A lustrous bituminous mineral allied to asphaltum and bitumen.

bitumen.
glancer (glan'ser), n. Same as *fender-skid.
glance-stroke (glans' strök), n. In cricket, s
stroke by which the ball is turned in its
course, usually to the leg side, by playing it
with the surface of the bat held slantwise.
See *glance, n., 7.

gland, n., 4. (c) The sliding member of an engine stuffing-box, by which the packing is compressed against the rod by endwise pressure from the bolts or nut.—5. In founding: (a) A clamp; a hooked bar used for clamping to-gether the parts of a molder's flask. (b) A plate through which the ends of a bindingclamp; a hooked bar used for clamping together the parts of a molder's flask. (b) A plate through which the ends of a binding-band or clevis pass; a clip.—Accessory glands of the vasa deferentia, in entom., certain glands, differing greatly in shape and number with the different orders of insects, whose secretions mix with the semen or form syermatophores. In many insects there is only a single pair; in others there are many; in some they are branched.—Adhesive glands, in entom, certain glands, occurring in bees and ants, connected with the poison-glands and corresponding to the tubular glands of the Orthoptera which secrete the glue with which the eggs are fastened together.—Adrenal gland. Same as adrenal, n.—Albumin glands, glandular developments in the ventral body-wall in the generative segments of some earthworms. They probably secrete the albuminous matter found in the cocoon. Also called capsulogenous glands.—Alkaline glands, in entom, those glands which in the aculeate Hymenoptera, as the bees, secrete a feebly alkaline substance which, with the acid product of other glands, makes the poison of the sting.—Alluring glands, in entom, seen-t-glands, occurring in the males of certain insects, the odor from which is supposed to attract or excite the females. They are more abundant in the Lepidoptera, but have also been found in certain Trichoptera and Orthoptera. The androconia may be alluring, and alluring glands may occur in various parts of the abdomen or in the front or hind legs. In the Lepidoptera they are usually connected with tufts or pencils of hair, concealed or unconcealed, which serve to distribute the odor.—Anal glands. (a) and (b). See anal. (c) In entom., paired or single glands situated near the rectum and usually connected with it. The secretion of these glands is frequently fetid in odor, and they then function as repugnatorial organs.—Antennal gland, the gland upon the basel joint of the second antenna in most Crustaca. It seems to be wanting only in the Leopoda.—Antennary gland, in Arthr

situated near the base of the tail; in mammals, same as perineal *plands. (a) The lymphatic glands in the neck. (b) In Uncinaria, a pair of pearshaped bodies of unknown function, which lie one on each side of the pharynx and probably open externally near the mouth.

- Conglobate gland. (b) — Conglobate gland. (b)
In entom., a gland, the
function of which is not



Onglobate gland. (b)
In entom, a gland, the function of which is not known, connected with the male genitalia of the cockroach and opening separately from the ejaculatory duct.—Corrosive glands, in entom, certain anal glands possessed by the adults of some beetles, particularly certain Carabidæ, from the byssus to a foreign object. The tain Carabidæ, from the byssus to a foreign object. The tain Carabidæ, from the cavities of the byssus are formed in which a corrosive fluid is expelled as a means of defense. Brachinus, Ajonnum, Pherosophus, Galerita, Helluo, Paussus, Ozena, Cerapterus, Staphylinus, Stenus, Ocypus, Lacon, and other genera possess these glands, and Mormolyce phyllodes, a species of Java, is said to secrete a fluid so corrosive that it paralyzes the fingers for twenty-four hours.—Coxal glands, (a) in Peripatus, a series of plans of glands lying in the lateral compartments of the body-cavity, their ducts opening on the lower surfaces of the legs. They vary in the two sexes and in different species. (b) Eversible repugnatorial glands situated in the coxa of certain of the lower insects, as the Symphyla and Synaptera. See defensive splands, certain eversible glands often found among the Insects, which are also called repugnatorial glands. They are situated in msny different parts of the body and are usually simple evaginable hypodermic pouches which when everted give forth a disagreeable odor which is supposed to be protective. See repugnatorial pores, under repugnatorial, a paired glands, the skin-glands of insects. The function of some of them is unknown; others secrete hairs, spines, wax, honey-dew, or other substances.—Eversible glands, seed efensive glands.—Petid glands, certain glands, occurring in several groups of insects in varying parts of the body, which secrete a liquid having a disagreeable odor. See defensive splands.—Petid glands in the great omentum near the greater curvature of the stomach.—Gland of Dufour, the alkaline glands in the great omentum near the greater curvature of the st

Harderian gland, a gland which lies in advance of the orbit of the eye and whose function is to lubricate the eyelids and, particularly, the nictitating membrane when this is present.—Hemolymph glands, glandular structures intermediate between the spleen and the lymphatic glands, believed to be concerned in hematopoiesis.—Hibernating gland, a gland, possessed by the hedgehog, in which fat is stored for consumption during the winter sleep.—Humeral gland, a gland opening on the upper surface of the antebrachial, or humeral membrane, of the bats of the genus Saccopteryz. It is characteristic of the males, being rudimentary or absent in the females.—Krohn's gland, in the Phalangide, a gland which opens on the dorsal side of the cephalothorax.—Méry's glands. Same as glands of Bartholin (which see, under gland).—Multicellular gland, a gland in which the excretory cells discharge their excretion into a common duct, where it accumulates before it escapes.—Mushroom gland, in mutom, the combined accessory glands of the vasa deferentia of the cockroach. See mushroom-shaped gland, under gland.—Nabothian glands, smil mucous follicles in the mucous membrane which lines the neck of the womb.—Nephridial gland, in some gastropods, a differentiated part of the kidney consisting of canals with ciliated epithelium and of connective tissue, muscles, and blood-lacunæ.—Nuhn's glands, two glands near the tip of the tongue the ducts of which open on the inferior surface. Also called Blandin's glands.—Odoriferous glands. (b) in entom., various hypodermal glands glving forth an odor, which occur in many insects and in different parts of the body.—Optic gland, in cephalopods, an organ, of unknown function, consisting of a large soft body which lies in immediate contact with the eye. Also called the white-body.—Orat gland, any one of the salivary glands which lie about the mouth.

The classification of the mammalian oral glands, their occurrence and structure in the different animals.

The classification of the mammalian oral glands, their occurrence and structure in the different animals. Science, June 28, 1901, p. 1025.

The classification of the mammalian oral glands, their occurrence and structure in the different animals.

Science, June 28, 1901, p. 1025.

Ovoid gland, in echinoderms. Same as *actal organ.—
Parapodial gland, in polychetous annelids, one of the collections of gland-cells found on the lobes of the parapodia.—Pedal gland, in gastropods, one of the mucus-secreting glands of the foot.—Pedipalpal gland, in many Arachnoidea, certain glands in the second pair of appendages. They are regarded as polson-glands in some genera, in others as sallvary glands, and in others as spinning-glands; but little is known about their function.—Pericardial gland, in most mollusks, a glandular differentiation of the endothelial wall of the pericardium, having perhaps an excretory function. Also known as Keber's organ.—Perineal gland, a gland opening in the perineum. It is from such a gland, lying just beneath the tail of various species of civet cats, that the civet of commerce is obtained. See civet, 1.—Rectal glands.

(b) In gephyreans, the glands near the anal opening.—Repugnatorial glands. Same as defensive *glands.

Serous gland, a salivary gland which produces a thin serous gland, a salivary gland which produces a thin serous gland, a salivary gland which produces a thin serous glands, two minute tubular glands in the floor of the fensie urethra.—Spermiducal gland, in carthworms, a glandular appendage attached to and opening into the vas deferens or sometimes opening independently to the exterior. Also known as prostate.—Splenolymph glands, the more common variety of hemolymph glands, the more common variety of hemolymph glands, of rounded form, found in many parts of the body.—Unicellular gland, a gland which consists of a single cell, or one in which the ducta through which the excretion escapes are parts of the bodies of the excretory cells: contrasted with a gland in which the excretory cells: contrasted with a gland in which the excretory cells: contrasted with a gland in which the excretory cells pour their excretory cell

On either side of the animal, and lying partly in the longitudinal muscle-layer, partly in the gelatinous connective tissue within the body of the animal, is a well-marked layer of gland-cells.

Proc. Zool. Soc. London, 1901, IL 93.

Glanders bacillus. See *bacillus.

gland-packer (gland'pak'er), n. A workman who packs the gland-box of an engine or machine. See gland, 4.

chine. See guand, 4.

glandula, n.—Glandulæ concatenatæ, a chain of lymphatic glands situated in the deeper structures of the neck and extending from the skull to the clavicle. Jour. Trop. Med., July 1, 1903, p. 208.

Glandular cancer. Same as adenocarcinoma and adenosarcoma.—Glandular epithelium. See *epithelium.—Glandular organ, in echinoderms. Same as *axial organ.

glanduliform (glan 'dū-li-fôrm), a. Like a glanduliform (glau' dū-li-fōrm), a. Like a gland in appearance or function. Syd. Soc. Lex. glanduligerous (glan-dū-lij'e-rus), n. [NL. glandula, gland, + L. gerere, bear.] Glandbearing; glandular: as, the glanduligerous edge of the mantle of a mollusk. glanz-gold (glänts'golt), n. [G.] A cheap style of ceramic gilding; it comes from the kiln in a bright state and requires no further treatment.

treatment.

glare-worm; (glar'werm), n. Same as glow-

glass. I. n., 1. In petrog., glass is the natural product of the rapid cooling of igneous magmas, and in large masses is known as obsidian, pitchstone, and pumice. It may be colorless or of various colors, as white, yellow, orange, red, green, and black. It forms the ground-mass of many volcanic rocks, being sometimes recognizable by the unaided eye, but often only microscopically. Glass base in the

name given to it when it forms the matrix for microscopic crystals in the ground-mass of a rock.— Appert glass. See the extract.

"Appert" glass, which, by reason of its composition and method of manufacture, can be made into vessels of any symmetrical shape possessing unusual strength and resisting perfectly the action of acids, electricity and climatic changes.

Electrochem. Industry, April, 1904, p. 166.

and method of manufacture, can be made into vessels of any symmetrical shape possessing unusual strength and resisting perfectly the action of acids, electricity and climatic changes.

Electrochem. Industry, April, 1904, p. 165.

Elown glass, glass which is shaped by the blowing process.—Chipped glass, a variety of rough sheet-glass used for partitions or screens. The sheets are first depolished by subjecting them to the sand-blast. The ground side is then covered with a coating of the best grade of liquid glue. When dry the sheets are placed on edge in frames in the chipping-room, where the temperature is raised to the proper degree by coils of steam-pipe beneath. As the glue is cracked by the heat it curis up in small pieces, drawing with it surface chips from the glass, to which it firmly adheres, leaving a beautiful pattern of ferm-like tracery. About thirty-six hours are required to complete the peeling process.—Continuating glasses, in photog, glasses tinged with red or yellow, which possess the power of continuing the darkening of the photograph after it has been removed from the camera and placed under them. This action was discovered by A. E. Becquerel.—Copper glass. Same as diezardria blue (which see, under blue).—Corrugated pattern, for use in floors, roofs, and partitions. See figured rolled signas, unpolished plate-glass with a corrugated pattern, for use in floors, roofs, and partitions. See figured rolled signas, unpolished plate-glass, formed by casting on a casting-table the surface of which is engraved with an ornamental pattern which is impressed upon the surface of the glass. Figured glass is used for roofs, floors, and partitions. See plate-glass.—Half-crystal glass, glass which contains lime instead of lead.—Hard glass, glass which is above 30 inches, the normal standing of the baroneter at sea-level.—Jona glass, show here the



Cream-jug and Salt-cellar of Stiegel Glass. In the Pennsylvania Museum, Philadelphia

White glass, brilliant clear glass which contains no lead, as distinguished from fint or crystal glass.

II. a.—Glass sand, silk, wool. See ★sand¹, ★silk,

glass-cloth, n. 3. An abrasive cloth made by sifting finely powdered glass on cloth covered with glue. Stand. Dict.

Glass-cutter's gage. See *gage².
glass-eel (glas'ēl), n. A young conger-eel.
The young do not resemble the adults: they are elongate, thin, and have very small heads.
glassen (glas'n), v. t. [glass + -en¹ (3).] To coat or cover (pottery or the like) with glaze; glaze.

glass-mold (glas'mold), n. 1. A hinged mold in which glass is blown into form. designs are usually cut in it which are reproduced in relief on the molded object. See cut at *blowing-mold.—2. A mold in which glass is pressed to imitate cut-glass.

glasspox (glas'poks), n. Chickenpox in which the vesicles are for the most part cone-shaped

and glittering.

glass-printing (glas'prin'ting), n. In photog., the art of printing on glass by the transfer process. Stand. Dict.

glass-wave (glas'wav), n. A sound-wave in

When standing sound-waves are produced in a glass tube two distinct systems of waves are sometimes observed, the air-waves within the tube, and waves which traverse the walls of the tube. The latter are called glasswaves.

M. W. Travers, Exper. Study of Gases, p. 275.

glass-wing (glas'wing), n. A butterfly which has transparent wings or wings that are transparent in spots.—Little glass-wing, an American hesperiid butterfly, Euphyse verna, brown in color, with a row of white or translucent spots on the fore wing. It occurs from New York to Kansas and southward along

glass-work, n. 3. In card-games, cheating with the aid of a glass or reflector, usually concealed in some article on the table, by means of which the sharper can read the cards

he deals to his adversary.

he deals to his adversary.

glasswort, n. About 6 species of glasswort, Salicornia) are now said to be found in North America, inhabiting mainly the salt marshes of the coast, but sometimes (the same or different species) growing on saline ground inland. S. herbacea, the stender or jointed glasswort or marsh-samphire (also called pickle-plant), together with S. Bigelovii, turns a vivid red in autumn, becoming very showy on the Atlantic coast, while S. ambigua, the woody glasswort (also called pickle-weed), presents a diversity of brilliant color in the Pacific salt-marshes.—White glasswort, the common sea-blite, Dondia maritima. See blite?

tima. See blite?.

Glassy humor of the eye. Same as vitreous body of the eye.

glastum (glas'tum), n. [L. glastum, < OCelt. *glaston, whence W. and Bret. glas, green, OIr. glass, Ir. glas, green, pale, Gael. glas, grsy.] A plant otherwise known as woad (Isatis tinctoria).

(sans inctoria). glaucine, a. II. n. A colorless bitter alkaloid contained in the leaves of the horn-poppy, Glaucium Glaucium. It forms crystalline nacreous scales when deposited from water. glaucochroite (glâ-kō-krō'īt), n. [Gr. $\gamma \lambda a \nu \kappa \delta c$, bluish green or gray, $+ \chi \rho o d$, color, $+ -ite^2$.] A silicate of calcium and manganese occurring in bluish green prismetic extraction of the state of the st

in bluish-green prismatic crystals at Franklin Furnace, New Jersey. It is analogous in for-mula to the species of the chrysolite group.

glaucodymium (glå-kō-dim'i-um), n. [NL., \(\) Gr. \(\) \(\) Aux\(\) \(\) c, \(\) buish green or gray, \(+ \) NL. \(\) \(\) \(\) \(\) dymium. \(\) In \(\) chem., a supposed new element announced by Chronstschoff in 1897 as present in salts of didymium as previously known. No confirmation of its existence has since than been published. then been published.

glaucomatic (glå-kō-mat'ik), a. [glaucoma(t-) + -ic.] Pertaining to or characteristic of

elancoma.

glaucoma. Glauconiidæ (glå-kō-nī'i-dō), n. pl. [NL. Glauconia the type genus, + -idæ.] A family of conia, the type genus, + -idæ.] A family of harmless snakes with teeth in the short and stout lower jaw only. The pelvic girdle is more complete than in any other existing snakes; the Illum, is chium and publis may be made out; and there is a vestigial femur. There are about 30 species, which inhabit parts of western Asia, Africa, and South America.

glauconitization (glå ko-nit-i-za/shon), n. The

process of introducing glauconite into a rock. This may be by precipitation in spaces of the rock or by actual replacement of other constituents. Geikie, Text-book of Geol. (4th ed.),

. 177.

Glauconome, n. 4. A genus of Paleozoic cryptostomatous bryozoans, now regarded as

synonymous with Pinnatopora.

glaucosuria (glå-kō-sū'ri-ä), n. [Gr. γλαυκός, bluish green, + οὐρου, urine.] Same as *indi-

canuria.

glaury (glà'ri), a. [glaur + -y¹.] Muddy; glial (glī'al), a. [glia + -al¹.] Of or pertainsoiled with glaur: as, glaury boots. [Scotch.] ing to the glia or neuroglia. Buck, Med. glaze, n. 4. Stock evaporated to a thin paste by boiling, and applied to meats to give them a polished surface. -5. A surface coating or fine fibers which forms the framework of the

sheet of ice. [Local, U. S.]—Coral glaze, a coral-red glaze found on Chinese porcelain.—Crystalline glaze, a glaze which shows crystalline effects, produced by special treatment in the kiln.—Flashed glaze, a dexterous manipulation of glazes perfected by the Chinese, such as blues splashed over with spots of red and illac, at first sight appearing to be the result of accident, but really the result of careful manipulation. W. P. Jervis, Encyc. Ceram., p. 213.—Flint glaze, in ceram., a glaze of which powdered flint is the principal ingredient.—Fluid glaze, in ceram., a glazing composition, prepared in liquid form, in which the ware is dipped or which is applied to the surface of the ware with a brush, as distinguished from dry glaze (such as powdered galena) or vapor-glaze (salt).—Fritted glaze, a glaze which contains ingredients which have been melted into a glass and ground before being applied to the ware. Compare raw *glaze.—Galena glaze. Same as lead-glaze. See also *daxting.—Kaolinic glaze, a glaze for porcelain, of which kaolin is the principal ingredient.—Lang yao glaze, Chinese sang-de-bour ('ox-blood) glaze, said to have been invented by Lang T'ing-tso, superintendent of the Imperial Porcelain Works at Kingteh-Tsin, early in the reign of K'ang-hsi (1662-1722).—Liver glaze, a variety of sang-de-bour glaze, of a dull, dark, or purplish-red color, usually without the iridescence which characterizes the true ox-blood glaze; a glaze composed of raw materials which are melted into a glass for the first time when fired on the ware in the glost-klin. Compare fritted *glaze.—Billocious glaze, a glaze produced by fusing an alkall, such as potash or sods, with sand; a coating of glass.—Slow-flowing glaze, in ceram., a thick viscous enamel or glaze which trickles in heavy drops down the outer surface of the vessel, during the firing, as in some of the old Japanese pottery and the recent stoneware reproductions of the Dedham (Massachusetts) pottery.—Stanniferous glaze, an opaque glaze of a white color containing oxi

glazing, n. 7. In leather-manuf., the process of rolling leather with a glass roller in order to give it a bright finish; also, less commonly, the light application with a sponge of a solu-tion which when dry gives to the leather its final luster. C. T. Davis, Manuf. of Leather,

p. 612.

glazing-roll (glā'zing-rol), n. One of the two
smooth rolls between which leather is passed under pressure to give it a high gloss and uniform thickness. C. T. Davis, Manuf. of

Leather, p. 615.

glebal (gle'bal), a. In bot., of or pertaining to the gleba. See Gleba, 3.

gled-wing (gled'wing), n. An artificial fly.
Also called redwing. N. E. D.
gleicheniaceous (gli-ke-ni-ā'shius), a. Of or pertaining to the Gleicheniaceæ, a family of glimps,

glendoveer (glen-dō-vēr'), n. [An arbitrary alteration by Southey of a French-spelled term in Sonnerat's "Voyage aux Indes" (1782), term in Sonnerat's "Voyage aux indes" (1782), the strain of the grandouver, which is appar. an imperfect transcription (simulating F. grand, great) of the Sanskrit gandhard (Hind. gandharb), one of a ma(t-) + -osis.] A morbid concelass of minor deities, demons, or 'jinn' of by a tendency to the formation whose origin and functions the usual contradictory accounts are given.] In Southey's gliomyoma (gli'ō-mi-ō'mi). n.; poem, "The Curse of Kehama" (1810), one of mata (-ma-ti). [NL., < glio(m) area of beautiful sprites. a race of beautiful sprites.

Glenoid notch. See *notch.

glen-pepper (glen'pep'er), n. [Also glenn pepper; (glen + pepper.] A wild cress. Lepidium campestre, also called poor-man's-pepper,

and more properly field-cress. glen-weed (glen wed), n. Same as *glenpepper

glia (gli'ā), n. [NL., < Gr. γλία, glue.] The glia-cells collectively of the central nervous system in vertebrates; neuroglia.

gliabacteria (glī'ā-bak-tē'ri-ā), n. pl. [Gr. γλία, glue, + bacteria, pl. of bacterium.] In bacteriol., the members of the family Bacteriaceæ which form gelatinous zoöglœa. Billroth. glia-cell (glī'ā-sel), n. One of the stellate sustentacular cells found in the central nervous system:

vous system; a component element of the neuroglia.

gliacoccus (gli-ä-kok'us), n.; pl. gliacocci(-sī).
[Gr. γλία, glue, + κόκκος, berry (spore).] In bacteriol., any member of the family Coccaceæ which forms gelatinous zoöglæa. Incorrectly

glia or neuroglia. Jour. Exper. Med., Nov. 29, 1901, p. 72.

glidder, a. II. n. A loose, rolling stone on a hillside. [Local, Eng.] glide, v. II. trans. In cricket, to glance; allow the ball to meet the bat and be deflected from

it, usually to the leg side.

glide, n. 4. In phonetics, a fleeting sound produced in passing from one position of the organs of speech to another, as in pronouncing the sound-combination ki in the word 'kind' designated the off-glide of the first letter (k) and the on-glide of the second (i). H. Sweet, Eng. Sounds, § 23.—5. In cricket, a glance; a stroke by which, instead of being hit, the ball is allowed to strike the bat and to be deflected from it, usually to the leg side.—Glide consonant, a consonant formed without any fixed configuration of the organs of speech.—Glide vowel, a vowel which cannot form a sylable by itself; a diphthongic vowel. H. Sweet, Eng. Sounds, § 22.

glideless (glid'les), a. [glide+-less.] In phonetics, passing from one position of the organs of speech to another without producing a glide or transition sound, as in the case of nd in and. H. Sweet.

glideness (glid'nes), n. In phonetics, gliding

quality.

Glideness and syllabioness generally go together.

H. Sweet, Eng. Sounds, § 22.

glide-plane (glīd'plān), n. Same as glidingplane.
glider¹, n. 2. In aëronaut., a gliding-machine.

Photographs of the paths of gliders taken by Mr. Williams some time ago with magnesium light distinctly showed the two oscillations, and in several cases the final overturning in a manner perfectly consistent with theory.

Nature, March 16, 1905, p. 464. glaze-kiln (glāz'kil), n. Same as *glost-kiln. turning in a manner perfectly consistent with theory. Glaziers' salt. See *salt1. See *salt1. The work of a gla-glide-wort (glād'wert), n. The hemp-nettle, Galeopsis Tetrahit.

gliding-machine (glī'ding-ma-shēn'), n. A machine for gliding through the air from a higher to a lower level, propelled by the force of gravity, like a flying-squirrel.

On account of the internal irregularities which all winds possessed, it was a great deal more difficult to control any glidding machine on the ground than when the operator was in the air, and . . . this was especially true of the machines that had been provided with the automatic regulating devices. Sci. Amer. Sup., Jan. 22, 1898, p. 18390.

glimmerous (glim'er-us), a. [glimmer + - ous.] Glimmering.

Thou mirror of Purity, when shall the elfin-lamp of my immerous understanding, purified from . . . grossesires, shine like the constellation of thy intellectual

powers!

Burns, Letter to W. Nicol, Feb. 20, 1793, in Prose Works,

[VL 56.

v. and n. A simplified spelling of

glimkite (glingk'it), n. [Named after Glinka, a Russian general.] A pale-green variety of chrysolite, or olivin, occurring in talcose schist in the Urals.

ma(t-) + -osis.] A morbid condition marked by a tendency to the formation of gliomatous

glionyoma (gli'ō-mī-ō'mā). n.; pl. glionyo-mata (-ma-tā). [NL., < glio(ma) + myoma.] A tumor having the characters of both a glioma and a myoma.

and a myoma.

gliomyxoma (glī'ō-mik-sō'mā), n.; pl. gliomyxomata (-ma-tā). [NL., < Gr. γλα, glue, +
μύξα, mucus, +-oma.] A glioma which has
undergone partial myxomatous degeneration.

gliosis (glī-ō'sis), n. [NL., < Gr. γλια, glue, +
-osis.] Circumscribed hypertrophy of gliatissue or neuroglia which causes partial destruction of the brain-substance.

glischrin (glis krin), n. [Gr. γλίαγος gluti-

glischrin (glisc'krin), n. [Gr. γλίσχρος, glutinous, +-in².] A mucinous substance produced in urine by Bacterium glischrogenes.

glissade, n. 3. In music, same as glissando.
glissaune (gli-sân'), n. [Of Ir. origin; not
traced.] The coalfish, Gadus virens, one of
the cods common in the Baltic and other northern seas, reaching a weight of 20 pounds.

On the Irish coast the fishermen catch large numbers of medium-sized coal-fish, called, locally, "glissaures." by trailing files, the lines being attached to long bamboo poles projecting from the stem of sailing boats.

**Encyc. Brit., XXXII 48.

glistener (glis'n-er), n. A gold coin. Moore, Fudge Family, vi. 45. N. E. D. [Slang.] glitter² (glit'er), n. A talus slope. [Local, Interpretation of the colors of the

Such slopes [of talus] are known as glitters in Northumberland, [and] glyders in North Wales.

Ser J. Lubbock, Scenery of England, vi.

glittery (glit'er-i), a. [glitter + -y1.] Full of globulose, a. II. n. An albumose derived from

glittery (glit'èr-i), a. [glitter + -y¹.] Full of globulose, a. II. n. An albumose derived from glitter; glittering.

gloat (glōt), n. A local English name for a globulus (glob'ū-lus), n.; pl. globuli-(-lī). [NL. variety of eel, of medium size and dark color.

global (glō'bal), a. [globe + -al¹.] 1. Spherical; globe-shaped: as, the global earth.—2. globulysis (glo-bū'li-sis), n. [L. globu(lus), globule, + Gr. λύσις, dissolution.] The dissolugilus globule, + Gr. λύσις, dissolution.] The dissolugilus globule, + Gr. λύσις, dissolution.

globate, a. II. n. A globular sponge-spicule such as occurs in the tetractinellid genera

globate, a. II. n. A globilar sponge-spicine such as occurs in the tetractinellid genera Geodites and Geodia.

globe, n. 7. In golf, the ball.—Counterpoise globe. See *counterpoise.—Dioptric globe. Same as *holophane.—Epidermic globes. Same as *epithelial pearls (which see, under pearl).—Ferdinand's globes, a crude thermometer described by Ferdinand II. of Florence about 1630, consisting of closed empty glass globes resting in equilibrium in the midst of a tall glass of water. The globes descend when the water is warmed and rise when it cools. Compare Cartesian devil, under Cartesian.—Globa aspect. See *aspect.—Spiral globe, a globe for inclosing an artificial light, made of spiral or twisted glass. W. L. Dibatin, Public Lighting, p. 409.

globe-animalcule (glob'ar-i-mal'kūl), n. Same as globe-animal.

globe-artichoke (glob'ār'ti-chōk), n. The common garden-artichoke, Cynara Scolymus, so called from its globular heads.

globe-berry (glob'ber'i), n. The yew, Taxus baccata.

placeata.

globe-flower, n.—American globe-flower. Same as spreading globe-flower (which see, under spread, v. i.).

globestellate (glō-bō-stel'āt), a. and n. [L. globus, ball, + stellatus, starred: see stellate.]

I. a. Having rays departing from a globular center, as in certain tetractinellid spongespicules.

II n. A globestellets and started.

spicules.

II. n. A globostellate sponge-spicule.

Globular projection. See *projection. - Globular texture, in petrog., a texture produced in aphanitic and glassy rocks by the presence of globules or spherulites.

globularetin (glob'ū-la-rē'tin), n. [globulartin) + -et- + -in².] A compound, C₇H₆O,

produced by the action of dilute acids lobularin.

globularin.

Globulariaceæ (glob-ū-lā-ri-ā'sē-ē), n. pl. [NL. (Link, 1829), < Globularia + -aceæ.] A small family of dicotyledonous sympetalous plants of the order Polemoniales, typified by the genus Globularia (which see). It is characterized by flowers with 5-lobed calyx and corolla, four or only two stamens, and two 1-seeded carpels. There are three genera and about 20 species, natives of Europe, the Canary Islands, the Azores, and Sokotra perennial herbs with obovate entire, often radical leaves, and flowers in dense heads, usually globular.

globularin (glob'ū-lār-in), n. [Globularia + -in².] An amorphous bitter glucoside, C₁₅H₂₀O₃, contained in the leaves of Globularia Alypum.

Alypum.

globule, n.—Morgagni's globules, glassy droplets seen
between a cataractous lens and its capsule. Also called

Morgagni's spheres.

globulicidal (glob'ū-li-si'dal), a. [L. globulus, globule, +-cida, < cædere, kill, +-all.] Destructive to the corpuscles of the blood, especially the red corpuscles: noting the ability of the blood-serum of one animal to destroy the red blood-corpuscles of another animal.

These extensive deposits of pigment which were found in nearly all parts of the general circulation seem, without doubt, to be referable to a greatly increased globulicidal action of the plasma.

Jour. Exper. Med., Feb. 5, 1902, p. 145.

globuliferous (glob-ū-lif'e-rus), n. [L. globulus, globule, + ferre, bear.] Bearing or containing globules; in geol., containing concretions or segregations which consist of mica or of feldspar and mica: called spherophyric by J. D. Dana: equivalent to the more common terms spheroidal or orbicular, used of spheroidal aggregates in granitoid rock.

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gregates in granitoid rock.

globuliform (glob'ū-li-fôrm), a. [L. globulus, globule, + forma, form.] Having a globular form; shaped like a globule.

globuligenic (glob'ū-li-jen'ik), a. [L. globulus, globule, + -genus, -producing, + -ic.] Producing blood-corpuscles. W. D. Halliburton, Chem. Physiol. and Pathol., p. 265.

globulimeter (glob-ū-lim'e-ter), n. [L. globulus, a globule, + Gr. μέτρον, measure.] A device for determining the number of globules in a

for determining the number of globules in a definite amount of blood.

globulinose (glob'ū-li-nōs), n. [globulin + -ose.] Same as *globulose.
globulist (glob'ū-list), n. [globule + -ist.] A
homeopathist: so called from the homeopathic practice of administering remedies in the form of globules. Dunglison.

globulysis (glo-bū'li-sis), n. [L. globu(lus), globule, + Gr. λίσις, dissolution.] The dissolution of blood-corpuscles by hemolysins. Buck, Med. Handbook, VIII. 467. Globus pallidus, the inner portion of the nucleus lenticularis, a mass of light-colored gray matter at the base of the hrain.

Glochiceras (glo-kis'e-ras), n. [NL., \langle Gr. $\gamma \lambda \omega \chi i c$, a point, + $\kappa \ell \rho a c$, horn.] A genus of ammonoid cephalopods or ammonites with smooth discoid shells having a relatively simple suture and bearing long lateral lappets at the aperture. It is of Jurassic age.

glochideous (glo-kid'ē-us), n. Same as glochid-

glochidian (glō-kid'i-an), a. [glochidi(um) + -an.] Relating to or characteristic of a glo--an.] R chidium.

glochinate (glok'i-nāt), a. [Gr. γλωχίν, var. of γλωχίς, a point, +-ate¹.] Same as glochidiate. glockenspiel (glok'en-shpēl'), n. [G., < glocke, bell (see clock²), + spiel, play.] 1. A musical instrument consisting of a series of small bells or metal rods or tubes, mounted in smain beins or instal rous or tubes, mounted in a frame and struck by hammers; sometimes the latter are manipulated from a keyboard. In the form used in military bands, sometimes improperly called a lyre, from the shape of the frame.—2. In organ-building, a stop con-sisting of a set of bells, bars, or tubes sounded by hammers. by hammers.

by hammers.

glockenthaler (glok'en-tä'ler), n. [G., < glocke, bell, + thaler, dollar.] A silver coin of Brunswick having on one side a bell.

glockerite (glok'er-it), n. [Named after E. F. Glocker, a mineralogist.] A hydrated ferric sulphate occurring in from yellow to brown and black stalactitic forms. It results from the alteration of iron pyrites.

glæospore (glē'ō-spōr), n. [Gr. $\gamma\lambda o\iota \dot{o}_{\zeta}$, sticky substance, + $\sigma\pi o\rho \dot{a}$, seed.] In phytogeog., a plant the dissemination of whose seeds is assisted by a viscid infloresence or by glan-dular hairs on the containing fruit. F. E.

Glæosporium (glē-ō-spō'ri-um), n. [NL. (Desmazières and Montagne, 1849), ζ Gr. γλοιός, sticky substance, + σπορά, seed.] A large genus of the Fungi Imperfecti of the order Melanconiales. The spore-bearing hyphæ form a Melanconiales. The spore-bearing hyphse form a dense mass beneath the surface of the host, breaking forth at maturity and forming pustules. The spores are simple and hyaline or light-colored. Over 200 species have been described, many of which cause the serious disease of cultivated plants called anthracnose. Some have been shown to be the conidial forms of pyrenomycetous fungi. See *anthracnose.

glome², n. 3. One of the branches or rounded portions of the frog of a horse's foot, on either side of the cleft.—Glome of the heel, that part of the wall of a horse's hoof where it curves around the heel to form the bar, the prominence of the heel.

glomeroporphyritic (glom'e-rō-pōr-fi-rit'ik), a. [glomerous + porphyritic.] In petrog., noting a texture in igneous rocks in which a porphyritic appearance is produced by the aggregation of numerous small crystals of one mineral, as pyroxene or feldspar. Judd, 1886. glomerular (glo-mer'ū-lār), a. [glomerulus + -ar³.] Of or pertaining to a glomerulus, especially to a glomerulus of the kidney.

When acted upon by venom the vessels show irregular bulging of the walls, by ricin a localized dilatation or congestion of the vessels, which give rise to a glomerular appearance.

Science, July 3, 1903, p. 7.

appearance. Science, July 8, 1903, p. 7.

Glomerular nephritis. Same as glomerulonephritis.

glomerulitis (glō-mer-ū-li' tis), n. [NL., <
glomerulus + -itis.] Same as glomerulonephritis. Jour. Exper. Med., Feb. 5, 1902, p. 166.

glomus (glō'mus), n.; pl. glomera (glom'e-rā).

[L. glomus (glomer-), a ball or clue of yarn,
thread, etc.: see glome².] 1. A coil of choroid
plexus extending into either lateral ventricle
of the brain.—2. A coil of blood-vessels projecting into the body-cavity, or cœloma, in
the region of the pronephros in the embryos
of the lower vertebrates. (See cut in next
column.) column.)

gloom-stove (glöm'stöv), n. A stove or oven in which formerly gunpowder was dried after granulation by cautiously regulated radiation their teeth. replaced by the use of steam-pipes. Also, by **glossodynia** (glos-ō-dī'ni-Ḥ), n. [NL., < Gr. γλῶσσα, tongue, + ὁδύνη, pain.] Same as glosgranulation by cautiously regulated radiation ellipsis, gloom.
gloria, n. 5. A fabric with a silk warp and a

A. glomus.

A, glomus.

Diagrammatic figure of a tadpole, dissected from the ventral surface to show the glomus, the heart and branchial vessels, and the head-kidneys and commencing Wolffian bodies. The alimentary canal, from the ecsophagus to the sectum, has been removed.

a, lower lip; \(\delta\), cingual artery; \(\chi\), truncus arteriosus; \(\delta\), opercular cavity; \(\ella\), ventricle; \(\frac{\chi}\), cosophagus; \(\ella\), third nephrostome; \(\delta\), alouac; \(\ella\), chomer lowed; \(\delta\), between the sectum, has been removed.

a, lower lip; \(\delta\), lingual artery; \(\chi\), truncus arteriosus; \(\delta\), opercular cavity; \(\ella\), ventricle; \(\frac{\chi}\), cosophagus; \(\ella\), third nephrostome; \(\delta\), alouac; \(\ella\), the devidency; \(\delta\), spout; \(\mathred{m}\), commencing hind limb; \(\mathred{m}\), \(\delta\), defined with the carotid gland third branchial arches; \(\ella\), communication between the afferent mane that arches; \(\ella\), communication extension the contension of which the carotid gland with the carotid gland wit

wool or cotton weft, so woven as to throw the silk on the face: used for umbrellas and women's dress-goods. women's dress-goods.
gloriette(glō-ri-et'), n.
[Also gloriet; < F. gloriette, Sp. glorieta; appar. based on L. gloria, glory.] In arch.: (a) a small pavilion in a park. (b) An elaborately ornamented apartment in a medieval castle or château. apartment in a medieval castle or château.

glory, n. — Diffraction
glory See **Aifraction.—
Glory of angels, the ranks
of attendant spirits, arranged in concentric circles,
by which in medieval Christian art the glorification of
the Trinity, Christ, or the
Virgin is accompanied. According to the scheme of 8t.
Dionysius, the glory consists
of three hierarchies and each
hierarchy of three orders.
These are from inner circle
to outer as follows: first hierarchy, cherubim, seraphim,
thrones; second hierarchy,
dominions princedoms, powers; third hierarchy, virtues,
archangels and angels. The
cherubim and seraphim are
often represented simply as
heads with two, fouror six
wings. The glory is rarely
shown complete. Jameson,
Sacred and Legendary Art,
p. 46.— Glory of the snow.
See **Chiomodoza.

glory-bush (glo'ri-

of twometers: so named in English green-houses, from its profusion of handsome flowers. See Tibouchina.

glory-flower (glo'ri-flou'er), n. [A translation of the NL. name Clianthus.] 1. Same as glory-pea. See Clianthus.—2. A plant of Chilean origin, Eccremocarpus scaber, with racemes of orange-colored flowers and twice-pinnate leaves, at the end of which there are branchleaves, at the end of which there are branching tendrils by which it climbs. The corolla is tubular with a joint just a short distance above the calyx, after which it swells out on the under side and then constricts into a neck before reaching the small circular mouth, surrounded by five short, rounded lobes. glory-hole, n. 3. A small furnace for reheating glass.—4. Naut., the lazaret or lazaretto, a low space below the main-deck in the after

part of a vessel where provisions and spare ear are stowed.

gloryless (glô'ri-les), n. [A translation of NL. Adoxa.] The moschatel or musk-root, Adoxa Moschatellina.

Moschatellina.

glory-tree (glō'ri-trē), n. A garden name for several species of ornamental, shrubby, or climbing verbenaceous plants of the genus Clerodendrum, especially C. fragrans.

glory-vine (glō'ri-vin), n. Same as glory-pea. See Clianthus.

gloss1, n. 3. In leather-manuf., a preparation which gives leather its final polish or finish. Modern Amer. Tunning, p. 148.—Egg-shell gloss, in painting, a subdued gloss like that upon an egg-shell. gloss. An abbreviation of glossary.

glossal (glos'al), a. [Gr. γλῶσσα, tongue, +-al·.] Of or pertaining to the tongue. glossarized, ppr. glossarizing. [glossar-y+-ize.] To enter and explain in a glossary.

All the words occurring in the formulas thus far trans-

All the words occurring in the formulas thus far translated have been glossarized.

Smithsonian Rep., 1890, p. 51.

glossatorial (glos-a-tō'ri-al), a. [glossator + glossatorial (glos-a-tō'ri-al), a. [glossator + -ial.] Pertaining to, of the nature of, or consisting of glosses: as, glossatorial literature. glossing, n. 2. In leather-manuf., the rubbing of virtually finished leather with a solution which gives it a final luster. C. T. Davis, Manuf. of Leather. pp. 612, 614. gloss-kiln (glos'kil), n. Same as *glost-kiln. Glossodus (glos'ō-dus), n. [NL., < Gr. γλωσσα, tongue, + ὁδούς, tooth.] A genus of Carboniferous selachian fishes known only from their teeth.

glossohyal, n. 2. In ichth., the bone of the tongue. It lies between the superior hypohyals and is of Geoffroy is the 'branchiostegal' of Synonymy of the Fish Skeleton, p. 517.

glossoid (glos'oid), a. [Gr. γλωσσοιόής, γλωσσοι, tongue, + liδος, form.]
resembling a tongue in form.
glossolabial (glos-ō-lā'bi-lāl), a. [Gr. γλωσσοι, tongue, + L. labium, lip, + -al.]
Belating to both the tongue and the lips.

both the tongue and the lips.

glossolabiolaryngeal (glos'ō-lā'bi-ō-lā-rin'jē-al), a. [Gr. γλώσσα, tongue, + L. labium, lip, +
Gr. λάρυγξ (λαρυγγ-), larynx, + -e-al.] Relating to the tongue, lips, and larynx.—Glossolabiolaryngeal paralysis. Same as chronic bulbar paralysis (which see, under bulbar).

glossolabiopharyngeal (glos'ō-lā'bi-ō-fā-rin'glossolabiopharyngeal (glos'ō-la'bi-ō-fā-rin'glossolabiopharyngeal (glos'ō-la'bi-ō-fā-rin'glossolabiopharyngeal (glos'ō-la'bi-ō-fā-rin'glossolabiopharyngeal (glos'ō-la'bi-ō-fā-rin'glossolabiopharyngeal (glos'ō-la'bi-ō-la'bi-ō-la'bi-ō-la'bi-ō-la'bi-ō-la'bi-ō-la'bi-ō-la'bi-ō-la'bi-ō-la'bi-ō-la'bi-ō-la'bi-ō-la'bi-ō-la'bi-ō-l

rlossolabiopharyngeal (glos o-la bi-o-la-rii -jē-ai), a. [Gr. γλῶσσα, tongue, + L. labium, lip, + Gr. φάρυγξ (φαρυγ-), pharynx, + -e-al.] Re-lating to the tongue, lips, and pharynx.—Glosso-labiopharyngeal paralysis. Same as chronic bulbar paralysis (which see, under bulbar).

glossolalist (glos'ō-lā-list), n. [Gr. γλώσσα, tongue, + λαλείν, speak, +-ist.] One who has the faculty or gift of speaking with tongues; one who is supposed to be miraculously endowed with the gift of tongues.

glossology, n. 3. The scientific study of the tongue and its diseases.

tongue and its diseases. glossopalatine (glos- $\tilde{0}$ -pal'a-tin), a. [Gr. $\gamma\lambda\tilde{\omega}\sigma\sigma a$, tongue, + L. palatum, palate, + -inel.] Same as palatoglossal. glossopathy (glo-sop'a-thi), n. [Gr. $\gamma\lambda\tilde{\omega}\sigma\sigma a$, tongue, + $\pi \alpha\theta\sigma c$, disease.] Any disease of the tongue

tongue.

glossopetræ (glos-ō-pet'rē), n. pl. [NL., \langle Gr. $\gamma \lambda \bar{\omega} \sigma a$, tongue, $+ \pi \ell \tau \rho a$, rock.] Certain fossil sharks' teeth: a word used by early writers on geology and fossils.

glossophytia (glos-ō-fit'i-ä), n. [NL., ζ Gr. γλαώσα, tongue, + ψτόν, a growth, a plant.]
Same as black-tongue.

glossophyton (glo-sof'i-ton), n.; pl. glossophyta (-ta). [NL., < Gr., γλώσσα, tongue, + φντόν, a growth, a plant.] A fungus found in certain es of black-tongue.

subsusteresis (glo-sos-te-rē'sis), n. [NL., ⟨Gr. γλῶσσα, tongue, + στέρησις, deprivation, ⟨στερείν, deprive.] Exsection of the tongue.

glossware (glos'war), n. Same as *glostware.

glost (glost), n. [A dial form of gloss¹.] In cerum., glaze applied to pottery or porcelain biscuit.

glost-kiln (glost'kil), n. In ceram., a kiln in which biscuit ware is glazed. Also called glosskiln and alaze-kiln.

glost-oven (glost'uv"en), n. Same as *glost-kiln. glost-placer (glost'plā'ser), n. In ceram., the operative who applies the glost.
glostware (glost'wār), n. Glazed ware; baked

pottery which has been covered with a glazing preparation and is fired a second time. Also called glossware.

The business was started in a small way by Isaac W. Knowles and Isaac A. Harvey, who made yellow ware in a single kiln, which was used alternately for bisque and glost-ware.

E. A. Barber, Pottery and Porcelain of The U. S., p. 201.

glottagra (glo-tag'ră), n. [NL., < Gr. γλῶττα, tongue, + ἀγρα, a catching. Cf. podagra.] Same as glossalgia.

glottalgia (glo-tal'ji-8), n. [NL., ζ Gr.γλῶττα, tongue, + ἀλγος, pain.] Same as glossalgia. Glottic race. See *race³.

glove, n.—To so for the gloves, in racing, to bet recklessly. N. E. D.

glove-grain (gluv'gran), n. A trade-name for

light leather made from grain of light leather made from grain of light leather made from grain of plated horsehair, ribbons, etc., and the called glove.

Also called glove.

glow-beetle (glo'be'tl), n. A European beetle,

glow-discharge (glo'dis-charj), n. A discharge between the terminals of an electrical machine under conditions such that the dielectric is rendered luminous although no sparks appear. The term is sometimes used to designate the luminous discharge in vacuumtubes as well as the discharge in air.

glower² (glo'er), n. In elect., the light-giving body of a Nernst lamp. See Nernst *lamp.

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glucinic (glö-sin'ik), a. [glucin + -ic.] Of or derived from glucinum. glucite (glö'sit), n. [Gr. γλυκύς, sweet, + -ite².] Same as sorbite.

a class of albumin (glö'kō-al-bū'min), n. One of a class of albumins which are characterized by the presence of a carbohydrate complex, in the molecule, in especially large amount.

glucoalbumose (glö'kō-al'bū-mōs), n. One of the primary albumoses (products of proteoly-tic digestion) which contains the entire car-bohydrate group of the original albuminous molecule.

molecule.

glucobiose (glö-kō-bī'ōs), n. [gluco(se) + biose.]
A biose consisting of two glucose molecules.
glucocyamidin (glö'kō-sī-am'i-din), n. [Also
glycocyamidin; < glucocyam(in) + -id + -in².]
A carbonic-acid derivative, C₃H₅ON₃, belonging to the guanidin group. It is formed from
glucocyamin through loss of water.
glucocyamin (glö-kō-sī'a-min), n. [Also glycocyamin; < Gr. γλνκίς, sweet, + cyam(ide) + -in².]
A carbonic-acid derivative belonging to the
guanidin group. It is formed through the union of

A carbonic-acid derivative belonging to the guandin group. It is formed through the union of cyanamide and glycocoll, C₃H₇N₃O₂. Through loss of water it becomes glucocyanidin. glucolignose (glö-kö-lig'n nös), n. [gluco(se) + lignose.] A compound, C₃O₄H₆O₂₁, obtained by the successive treatment of fir-wood with the section of the control and other sections and other sections. dilute acetic acid, water, alcohol and ether. Dilute acids hydrolyze it to glucose and lig-

glucolysis, glucolytic, etc. See *glycolysis,

gluconic (glö-kon'ik), a. [gluc(ose) + -on +

gluconic (glö-kon'ik), a. [gluc(ose) + -on + -ic.] Derived from glucose.—Gluconic acid, a colorless syrupy compound, CH₂OH(CHOH)₄.COOH, obtained by the oxidation of starch, glucose, cane-sugar, maltose, and similar substances, with chlorin or bromine water and silver oxid. Also called dextronic acid. glucoproteid (glò-kō-prō'tō-id), n. [Also gly-coproteid; ⟨ Gr. γλυκύς, sweet, + E. proteid.] An albumin in which a carbohydrate group is present in especially large amount, as the mucins and mucoids. On decomposition the carbohydrate group is, in most cases, obtained in the form of glucosamine. glucosamin (glō-kō-sam'in), n. [Also glycosamin; ⟨ Gr. γλυκύς, sweet, + E. amin(e).] A colorless compound, CHO.CH(NH₂)(CHOH)₃ CH₂OH, crystallizing in needles. It is formed, cartilege

colorless compound, CHO.CH(NH₂)(CHOH)₃
CH₂OH, crystallizing in needles. It is formed, together with acetic acid, by the hydrolysis of cartilage or chitin by means of dilute mineral acids. It is dextrovatory and closely allied to glucose.

glucosan (glö 'kō -san'), n. [glucose +-an.]
A colorless compound formed by heating glucose at 170° C., and also by heating esculin, from horse-chestnut bark, at 230° C. It has a very slightly sweet taste, is not fermentable, and is reconverted into glucose by the action of dilute acids.

glucosazone (glö - kōs - az 'ōn), n. [glucose + az(ote) + -one.] The osazone of glucose, CH₂OH(CHOH)₃.C(N₂HC₆H₅).CHN₂HC₆H₅. It is prepared by warming d-glucose, l-fructose, or d-mannose with phenylhydrazin and acetic acid. It melts at 206° C. The compound is more correctly called phenyl glucosazone.

glucose, n.— Dried glucose, one of several trade-

glucosidal (glö-kō-sī'dal), a. [glucoside + -all.] Relating to or containing a glucoside. glucosidic (glö-kō-sid'ik), a. [glucoside +

glucosidic (glö-kō-sid'ik), a. [glucoside + -ic.] Of or pertaining to a glucoside.
glucosidolytic (glö'kō-sid-ō-lit'ik), a. [glucoside + Gr. λυτός, < λύευν, dissolve.] Causing the cleavage of glucosides: noting a class of ferments. Also glycosidolytic.
The glucosidolytic enzyme of Sorghum vulgare therefore performs the same functions as the enzyme emulsin which occurs in sweet almonds.

Philos. Trans. Roy. Soc. (London), 1902, ser. A, p. 409.
glucosone (glö'kō-sōn), n. [glucose + -one.]
A non-fermentable syrup having the composi-

tion C₆H₁₀O₆, formed by the action of concentrated hydrochloric acid on glucosazone.

glucosuria, n.—Digestive glucosuria, glucosuria following the ingestion of unusually large amounts of sugar or starchy food, irrespective of the existence of diabetes.

diabetes.
glucosuric (glö-kō-sū'rik), a. Relating to or
affected with glucosuris.—Glucosuric acid, as
organic acid which was isolated by J. Marshall from as
alkapton urine: probably identical with homogentianic

glucovanillic (glö'kō-vṣ-nil'ik), a. [gluco(*) + vanill(in) + -ic.] Pertaining to glucose and vanillin .- Glucovanillic acid, a colorless compound, CHO(CH.OH), CH₂O, C₆H₃OCH₃OCH₃O₂H + H₂O, prepared by the oxidation of coniferin by means of potasium permanganate. It forms prismatic crystals which when dehydrated, melt at 210-212 C. It is converted by emulsin into glucose and vanillic acid, and is also called p-glucozy-m-methoxybenzoic acid.

emulsin into glucose and valmine and, and is and canner p-glucoy-m-methoxybenzoic acid.

glucovanillin (glö'kō-vā-nil'in), n. [gluco(se) + vanilla + -in².] A colorless compound,

CHO (CH.OH) 4. CH₂O.C₆H₃ (OCH₃) COH +

2H₂O, prepared by the oxidation of coniferin by means of chromic acid. It is levorotator, crystallizes in needles, and melts at 192° C. Emulsin resolves it into vanillin and glucose. It is the aldehyde of glucovanillic acid, and is termed p-glucoy-m-methoxybenzuldehyde.

glucuron (glö-kū'ron), n. [Gr. γλικός, sweet, + ούρου, urine, + -on, -one.] The anhydrid of glucuronize acid, having the formula C₆H₅O₅ glucuronate (glö-kū'rō-nāt), n. [glucuron-c-c-t-t-t-t]. A salt of glucuronic acid.

glucuronic (glö-kū-ron'ik), a. Same as *gly-

glucuronic (glö-kū-ron'ik), a. Same as *gly-

glue, n. 2. [Short for glue-stock.] A very low grade of hide, practically worthless for tanning, but used in the manufacture of glue: commonly called glue-stock. Flemming, Practical Tanning, p. 265.—Dutch or Flanders glue. Same as Cologne glue.—Hide glue, glue made from the trimming of hides, as distinguished from glue of inferior value made from bones.—Isinglass glue, a fine glue prepared by carefully boiling with water scraps of parchment or similarly cleansed animal skins.—Patent glue, a tradename for a superior kind of glue of dark color, made from bones.—Russian glue, a tradename for a variety of carpenters' glue to which mineral matter, such as lead or calcium carbonate, zinc oxid, or barium sulphate has been added to the extent of 5 or 6 per cent.: It is of whitish appearance in consequence.—Size glue, a tradename for glue of superior quality, carefully prepared from scraps of animal skin. See size, 1.

glue-plant (glö'plant), n. One of the red alga, Gracilaria, occasionally used for food and also in the manufacture of agar-agar. curonic.
cline. n. 2. [Short for glue-stock.] A very low

in the manufacture of agar-agar.

glue-pot, n. 2. A part of a road so bad that the wheels of a carriage would stick in it.

[Australia.]
Glugea (glö-jē'ä), n. [NL.] The typical genus of the family Glugeidæ. G. bombycis is very destructive to silkworms, causing the disease known in France as la pébrine. Thélohan, 1891.

Glugeidæ (glö-jē'i-dē), n. pl. [NL., & Glugos + .idæ.] A family of sporozoans, of the order Myxosporidia, having the spores minute and pear-shaped, with one polar capsule which with one polar capsule which is only visible after treatment with reagents. More than two spores are formed in each pansporoblast. The family consists of cell-parasites found mostly in arthropods and fishes. The typical genus is Glugea; others are Gurleya, Thelohania, and Pleistophora. leya, Thelohania, and Pleistophora.
glume, n.—Empty glume, flowerless glume. See fovering
*glume.—Flowering glume, in
bot., one of the glumes (bracts) in
the spikelets of grasses which subtend florets, as opposed to the flowerless or empty glumes (usually a
pair) at the base of the spikelet.
glump (glump), n. 1. A sullen, sulky fellow.—2. pl.
The sulks.

The sulks.

glut, v. t. 4. To choke or par-tially fill up, as an engine-cylinder or condenser-tube by a carbonaceous deposit from inferior oils used in lufrom inferior oils used in Iu-brication. Animal oils, includ-ing tallow, suet, and lard, are found to produce both glutting and corro-sion, the latter being due to the de-composition of the fats and the formation of fatty acids and the de-position of carbon. Mineral oils are tree from these defects. glut, n. 10. A block, usually of bronze, in one face of which is a recess to receive

which is a recess to receive the upset end of the valve-



Spores or vances Gluggida, highly mag-nified, after Thelehan nified, after Thichana and b. Phistopher,
in the fresh costanab. after treamen with
iodine water, cash
extrusion of the fisment; c and a fisment; c and a fisment; c and a fisment; c and a fisment; c fast with extra
definition of the fisment; c and a fisment; c

rod in a knuckle-joint. The glut is tightened by a wedge and screw, or by a key.

glutaconate (glö-tak'ō-nāt), n. [glutacon(ic)
+ -atel.] A salt of glutaconic acid.

The methylation and condensation of ethyl glutaconate.
Nature, March 26, 1903, p. 504.

glutaconic (glö-ta-kon'ik), a. [glut(en) + aconic.] Noting a colorless compound, HOCO. CH₂.CH:CH.COOH, which crystallizes in prisms and melts at 152° C. It is isomeric with itaconic, citraconic, and mesaconic acids. Also called pentenediacid or a-y-propylenedicarhorylic acid. carboxulic acid.

carboxylic acid.

glutamic (glö-tam'ik), a. [glut(en) + am(ine) + ic.] Derived from gluten and amine.—
Glutamic acid, a crystalline compound, HOCO.CH (NHg).CHg.CHg.COOH, extracted from pumpkin and vetch seeds and from beet root juice. It is also produced by boiling vegetable proteids with dilute sulphuric acid. It is deposited in lustrous rhombohedra and melts at 140° C. Also called a-aminoglutaric acid and, incorrectly, glutaminic acid.

glutamine (glö-tam'in), n. [glut(en) + amine.]glutamine (glö-tam'in), n. [glut(en) + amine.] glycerize.

A colorless crystalline compound, H₂N.CO. glycerinophosphoric (glis-e-rī'nō-fos-for'ik), CH(NH₂).CH₂COOH, found, together a. Same as *glycerophosphoric.

with asparagin, widely distributed in the vegetable kingdom. It is deposited in slender maceutical Latin name for glycerol. needles. Also called a-glutamamide and, incorrectly, glutamin.

glycerodegras (glis'e-rō-de-grā'), n. [glycerin + degras.] A mixture of glycerin, fish-oil, and glutaminic (glö-ta-min'ik), a. [glutamine + degras.] A mixture of glycerin, fish-oil, and glutaminic acid, an incorrect term for *glutamic acid.

glutaric (glö-tar'ik), a. [glut(en) + -ar + -ic.] glycerize.

correctly, glutamin.
glutaminic (glö-ta-min'ik), a. [glutamine +
-ic.] Of or pertaining to glutamine.—Glutaminio acid, an incorrect term for *glutamic acid.
glutaric (glö-tar'ik), a. [glut(en) + -ar + -ic.]
Derived from gluten.—Glutaric acid, a colorless
compound, HO.COCH₂.CH₂.CH₂.COOH, which crystallizes
in large, monoclinic prisms melting at 97.5° C., and boils at
302-304° C. It is found in the washings from sheep's wool
and can be prepared artificially in a variety of ways. Also
called normal pyrotartaric acid or pentanediacid.
glutazin (glö-taz'in), n. [glut(en) + az(ote) +
-in².] A colorless compound, C₅H₆O₂N₂, which
crystallizes in rectangular plates. It melts and
decomposes at 300° C., and is probably 4-imido.

-in².] A coloriess compound, $C_5H_6O_2N_2$, which crystallizes in rectangular plates. It melts and decomposes at 300° C., and is probably 4-imido, 2-6, diketohexahydropyridine.

Gluteal aponeurosis, the combination of the femoral fascia over the nates.—Gluteal furrow. See */urrow. gluten, n. 2. A glue-like animal secretion: for example, the sticky material secreted by swallows in nest-building.—Gluten feed, a mixture of gluten-meal and corn bran: used as feed for cattle.—Gluten flour, wheat four from which a part of the starch has been removed, thus increasing the proportion of gluten. See gluten.—Gluten meal, a by-product of the manufacture of glucose and starch from Indian corn. It consists largely of the germ of the grain, with more or less of the hulls and starch: valued as a feed, especially for milch cattle.

glutenin (glö'te-nin), n. [gluten + -in².] That portion of vegetable gluten which is insoluble in alcohol. Also termed gluten-fibrin. See gluten.
glutenoid (glö'te-noid), a. [gluten + -oid.]

Similar to gluten.

similar or gruen. Similar or gruen. Similar or gruen acid. Same as gluteoperineal (glö'të-ō-per-i-nō'al), a. Relating to the gluteal region and the perineum: glycid (glis'id), n. [glyc(erol) + -id¹.] A noting a furrow on the external surface and a colorless liquid,

noting a furrow on the external surface and a group of muscular fibers.

glutimic (glö-tim'ik), a. [glut(en) + im(ine) + -ic.] Derived from gluten and imine.—Glutimic acid, a compound, C₅H₇O₃N, formed, together with glutamic acid, by boiling albumen with a solution of barium hydroxid. It melts at 180° C.

glutin, n. 2. Same as gelatin. It forms the chief part of carpenters' glue. Not to be confounded with gluten or any of its components.

glutinize (glö'ti-niz), v. t.; pret. and pp. glutinized, ppr. glutinizing. [gluten (-tin-) + -ize.]

To render glutinous or gluey.

glutinoid (glö'ti-noid), n. [gluten (-tin-) + -oid.] Same as *albuminoid.

glutinoid (glö'ti-noid), n. [gluten (-tin-) + -oid.] Same as *albuminoid.
glutoform (glö'tō-fòrm), n. Same as *glutol.
glutoid (glö'toid), n. [glut(in) + -oid.] Gelatin hardened with formaldehyde: used in making capsules. Buck, Med. Handbook, IV. 374.
glutokyrin (glö-tō-kī'rin), n. A peptone body obtained by Siegfried on hydrolysis of glutin.
glutol (glö'tōl), n. [glut(en) + -ol.] Same as formaldehyde *gelatin.

glutose (glö'tōs), n. [glut(en) + -ose.] Same

as *gelatose glutter (glut'er), n. [Imitative.] A splutter.

glutton, n. 4. In pugilism, one who takes a glycinin (glis'i-nin), n. [Glycine + -in².] A great deal of punishment before he is beaten. [Sporting slang.]

[Sporting slang.] [Sporting slang.]

[Sporting slang.]
glycemia, glycemia (gli-sē'mi-š), n. [NL. glycemia, ⟨Gr. γλυκύς, sweet, + alμa, blood.]
Same as glucohemia.
glyceral (glis'e-ral), n. [Gr. γλυκερός, sweet, + -al².] One of certain compounds obtained by the action of glycerol on an aldehyde.
glycerin, n. 2†. Formerly a general designa-

tion for compounds similar to glycerol in that tion for compounds similar to glycero in that they contain three hydroxyl groups.—Glycerin agar, a bacterial culture-medium, of the composition of ordinary nutrient agar, to which 6-8 per cent. of glycerin has been added: especially serviceable in growing the tubercle bacillus.—Glycerin jelly, a mixture of gelatin and glycerin employed in the manufacture of soluble bougles, and used also as a mount for microscopical speci-

glycerinate (glis'e-ri-nāt), v. t.; pret. and pp. glycerinated, ppr. glycerinating. Same as glyc-Same as glycerize.—Glycerinated lymph or vaccine, vaccine virus mixed with glycerin in order to destroy any bacteria with which the lymph may have been accidentally contaminated.

taminated.

glycerination (glis'e-ri-nā'shon), n. [glycerin + -ation.] Treatment or dilution with glycerol. Thus calf's lymph is mixed with glycerol, which, after a time, kills bacterial organisms that are often present in ordinary lymph.

glycerinize (glis'e-rin-iz). v. t.: pref. and progressions of the state of the present in ordinary lymph.

glycerinize (glis'e-rin-iz). v. t.: pref. and progressions)

as a venicie for exhibiting external remedies.

glycogenic, a. 2. Derived from glycogen.

Glycogenic acid, a syrupy compound, C₆H₁₉O₇,

formed by the oxidation of glycogen with bromine and silver oxid. It is possibly identical with dextronic acid.

glycogeny (gli-koj'e-ni), n. [Gr. γλυκίς, sweet, + -γενεα, ⟨ -γενης, -born.] Same as glycogensics.

which, arter a time, kills bacterial organisms that are often present in ordinary lymph. glycerinize (glis'e-rin-iz), v. t.; pret. and pp. glycerinized, ppr. glycerinizing. [glycerin + -ize.] To treat with glycerin; glycerinate; glycerine.

glyceroformol (glis'e-rō-for'mol), n. [glycerin + form(aldehyde) + -ol.] A substance formed by the action of formaldehyde upon glycerin: used as an antiseptic.

used as an antiseptic.

glycerogelatin (glis'e-rō-jel'a-tin), n. A stiff
jelly consisting of gelatin 1 part, water 6 parts,
and glycerin 7 parts: used in microscopy as
a mounting and embedding medium. Also
glycerin gelatin, glycerin jelly, glycerin gum.
glycerolate (glis'e-rō-lāt), n. [glycerol +
-atel.] Same as glycerite.
glycerophosphate (glis'e-rō-fos'fāt), n. A
salt of glycerophosphoric acid with a base
(iron, quinine, calcium, etc.): employed in
medicine as a nerve tonic.
glycerophosphoric (glis'e-rō-fos-for'ik).

Noting an acid, $C_3H_9O_8P$, a decomposition-product of lecithin in which it is present in combination with choline, two of its hydroxyl

groups being replaced by fatty-acid radicals.
glycerose (glis'e-ros), n. [glycer(ol) + -ose.]
A substance formed by the oxidation of glycerol by dilute nitric acid or bromine. It was thought to be a triose, C₃H₆O₃, but is now known to be a mixture of glycerol aldehyde and glycerol ketone.
glycic (glis'ik), a. [Gr. γλυκύς, sweet, + -ic.]
Derived from glycerol.—Glycic acid. Same as glucic acid.

glycid (glis'id), n. [glyc(erol) + -id¹.] A colorless liquid,

CH₂.CH.CH₂OH,
the anhydrid of glycerol, into which it is rapidly converted by the action of water. It boils at 160° C. Also called hydroxypropyleneoxid.
glycidic (gli-sid'ik), a. [glycid + -ic.] Derived from glycerol.—Glycidic acid, a colorless liquid,

with an irritating odor. It rapidly attacks the mucous membrane and is slowly converted, by water, into glyceric acid. Also called axyaerylic acid.—Glycidic ester, an ester of glycidic acid: usually applied, loosely, to the ethyl salt, and often written, incorrectly, glycidic ether. Glycine (gli-si'ne), n. [NL. (Linnæus, 1753; first used in his Genera Plantarum, 1737), < Gr. γλυκύς, sweet, + -inē, a form of -inal. The name alludes to the substitution of Indian licorice. Abrus Abrus (called Glycine Abrus by licorice, Abrus Abrus (called Glycine Abrus by Linnsus), for true licorice, Glycyrrhiza glabra.]

1. A genus of plants of the family Fabaces.
See Apios.—2. A name incorrectly applied to

cholic acid.—Giycocholonic acid, a crystalline monobasic acid, C28H41NO5, formed by the action of concentrated hydrochloric acid on glycocholic acid. glycocyamidin, glycoproteid, etc. See *alu-

glycoformal (gli-kō-fōr'mal), n. [glyc(erol) + formal(in).] A mixture of formalin and glycerol: used, in the form of vapor, as a disin-

fecting agent.

glycogelatin (gli-kō-jel'a-tin), n. A jelly-like mixture of glycerin and gelatin, used in the manufacture of lozenges and pastils and also as a vehicle for exhibiting external remedies.

glycol, n.—Diethene glycol, a compound, CH₂OH. CH₂O.CH₂CH₂OH, formed by the union of ethylene oxid with glycol. It is a liquid which boils at 250°. glycolaldehyde (gli-kol-al'dē-hid), n. [Gr. γλικις, sweet, + E. aldehyde.] A syrupy compound, HOCH₂.CHO, obtained by the action of barium hydroxid on bromacetaldehyde. It readily gives rise to sugars. Also called hydroxyacetaldehyde.

glycolate (gli'kō-lāt), n. [glycol(ic) + -atel.]
A salt of glycolic acid.

glycoleucyte (glī-kō-lū'sīt), n. [glyco(gen) + leu(co)cyte.] A large leucocyte, especially adapted to storing nutritive substances such as glycogen, found in the blood of certain worms (for example, Sipunculus nudus).

F. Ladreyt finds that there are two very distinct types of leucocytes in this worm [Sipunculus nudus]. There are minute plastids, with very active fine pseudopodis, and central or slightly excentric nucleus (ameebocytes or phagocytes), which have an important rôle in excretion and phagocytesis; and there are large elements, including numerous transparent spherules, without pseudopodis, with a lateral nucleus (vesicular leucocytes or "glycoleucytes"), which are especially devoted to storing nutritive substances, like glycogen.

Jour. Roy. Micros. Soc., April, 1904, p. 188.

Glycolic acid, a coloriess compound, HO.CH₂.COOH, which crystallizes in plates or needles and melts at 80° C. Its potassium salt is contained in the grease of sheep's wool. Also called hydroxyacetic acid.

wool. Also called hydrozyacetic acid.

glycolid (gli'kō-lid), n. [glycol + -id¹.] A colorless compound,

O (CH2.CO),

which crystallizes in large lustrous plates and melts at 86-87° C.: formed by treating glycolic acid in a current of carbon dioxid. It is a cyclic, double ester of glycolic acid. The name was formerly applied to an anhydrid of glycolic acid (C2H2O2) which is now called polyglycolid.

glycoline (gli'kō-lin), n. [glycol + -ine².] A colorless compound, which crystallizes in rhombohedra or in lustrous plates and melts

rhombohedra or in lustrous plates and melts at 15° C. It is contained in commercial fusel-

glycoluril (glī-kol'ū-ril), n. [glycol + urea + -il.] A colorless compound,

CO NHCHNH

CO NHCHNH

which crystallizes in white needles: formed by the action of hydrochloric acid on a mixture of glyoxal and urea. Also called acetylene

glycolyl (glī 'kō - lil), n. [glycol + -yl.] A bivalent organic radical, CH₂CO. glycolylurea (glī 'kō - li - lū 'rō - i, n. See *hy-

glycolysis (glī-kol'i-sis), n. [Gr. γλυκύς, sweet, + λίσις, dissolution.] The destruction of sugar in the animal body. This (in part, at least) is supposedly effected through a ferment which in itself is inactive, but is activated by a substance formed in the pancreas which plays the rôle of a kinase. Also glucolysis.

In the lives and in the blood their area cation to the lives and in the blood their area cation to the lives and in the blood their area.

In the liver and in the blood, their first action is to increase glycolysis, but this effect is diminished, or even arrested, by their prolonged action.

Nature, Jan. 21, 1904, p. 287.

1. A genus of plants of the family Fabaceæ. See Aptos.—2. A name incorrectly applied to Soia, a genus of plants belonging to the family Fabaceæ and including the soy-bean. See *Soia.

glycinin (glis' i - nin), n. [Glycine + -in².] A globulin found in the soy-bean.

glycium (glis' i-min), n. In chem., same as glycocholate (glī-kō-kol'āt), n. A salt of glycocholic acid. Sodiumglycocholate, the sodium salt of glycocholic acid. It is administered in cases of wasting diseases, as it materially aids the digestion of fats.

glycocholonic (glī-kō-kō-lon'ik), a. [glycocholic acid. The sodium glycocholonic (glī-kō-kō-lon'ik), a. [glycocholonic (glī-kō-lon'ik), a. [glycocholonic (glī-kō-lon'ik), a. [glycocholonic (g

by the interaction or ammonia and givoral. Also called diglyoxaline.

glycosolvol (gli'kō-sol-vōl), n. [glyco(se) + L. solvere, dissolve, + -ol.] A diabetic remedy of indefinite composition and action.

glycosometer (gli-kō-som'e-ter), n. [glycose, + Gr. μέτρον, measure.] An apparatus for estimating the amount of sugar present in the

glycuronic (glī-kū-ron'ik), a. [Gr. γλυκύς, sweet, + οὐρου, urine, + -one + -ic.] Derived from glucose.—Glycuronic acid, a syrupy compound, COH(CHOH)COOH, obtained by boiling euxanthic acid with dilute sulphuric acid. It is closely related to glucose; occurs in the blood; and compounds of it with camphor, chloral, phenol, etc., are found in the urine after the administration of these substances. Also glucuronic

glycyphillin (gli-si-fil'in), n. [NL. glycyphylla + -in².] A crystalline sweet glucoside, C₂₁H₄₄ O₉, extracted from the leaves of Smilax glycyphylla. It is deposited in lustrous prisms with 31 or 4H₂O (depending on the solvent used), and melts at 175-180°C. When hydrolyzed it yields phloretin and isodulcitose, and is closely allied to phlorizin if not identical with it.

glycyrretin (glis-i-ret'in), n. [glycyrrh(iza) + -et- + -in².] A crystalline compound, C₃₂H₄₇O₄N, formed by the action of dilute cids on glycyrrhizic acid, which occurs, in the form of salts, in licorice-root. It melts at 200° C.

elycyrrhizic (glis-i-ri'zik), a. [glycyrrhiza + -ic.] Pertaining to or derived from licorice.—Glycyrrhizic acid, a colorless tribasic acid, C₄₄H₆₃O₁₈N, resembling albumen in appearance. It gelatinizes with cold water, has a sweet taste, and occurs, as the ammonium or calcium salt, in licorice-root.

A simplified spelling of glyph. glykemia, glykæmia (glī-kē'mi-ä), n.

glykelmia, glykelmia (gir-ac mira), h. See

*glycemia, glyczmia.

Glyoxalic acid, a coloriess syrupy compound, HCO.COOH, found in the leaves and unripe fruits of many plants, including the gooseberry. It is prepared by the oxidation of alcohol, glycol, or glycerol, by means of nitric acid. With water it forms a crystalline derivative, CH(OH)₂ COOH. The syrup and the solid are, therefore, the aldehyde and the dihydroxid respectively of oxalic acid. Also called glyoxylic acid.

together with glycosine, by the action of concentrated ammonia on glyoxal. It occurs in thick nacreous prisms which melt at 89° C., boll at 255° C., and have an alkaline reaction. It is also called imidazol or methylene acetylenazin. The name glyozaline is also given to certain compounds which are derived from glyoxaline itself by replacement of its hydrogen atoms by radicals.

glyoxiline, glyoxyline (gli-ok'si-lin), n. [As glyox(al) + -il, -yl, + -inc2.] An explosive consisting of guncotton treated with a solution of saltpeter, dried, and soaked with

a solution of saltpeter, dried, and soaked with nitroglycerin. It closely resembles explosive gelatin, but its constituents are less intimately blended. Not to be confounded with the compound glyoxaline (C₃H₄N₂). glyoxime (gli-ok'sim), n. [As glyox(al) + -ime.] A colorless compound, HON:CHCH: NOH, prepared by the action of hydroxylamine on glyoxal. It crystallizes in trimetric plates and melts at 178° C. glyoxylic (gli-ok-sil'ik), a. Same as glyoxalic. —Glyoxylic acid. Same as *glyoxalic acid. glyoh, n. 2. A written or pictured character,

glyph, n. 2. A written or pictured character, sign, or symbol representing a word or an idea; an ideograph: as, the Mexican or Mayan glyphs.

Now, when a glyph is read as a word, the interesting phenomenon of which we have spoken is this: Words have different meanings, the same word may express different concepts, and the glyph may be read by speaking the word and attaching to it any meaning which the spoken word represents. In this early society words are mysterious things supposed to be properties or qualities of things, rather than signs of things. When such glyphs become signs of spoken words they are signs of sounds. They become signs of word-sounds, then signs of syllabic sounds, and ultimately signs of alphabetic sounds; and thus picture-writing is developed into alphabetic writing. J. W. Powell, in Rep. Bur. Amer. Ethnol., 1898-99, p. [clxviii.]

Glyphæa (gli-fē'ā), n. [NL., < Gr. γλυφή, an engraving, < γλιφέιν, engrave: see glyph.] A genus of extinct macrurous crustaceans from the Jurassic and Cretaceous rocks. glyphic, a. 2. Of the nature of a glyph or

ideograph: as, glyphic words.

The written languages produced in primitive time have distinct words as ideographs; they also have a distinct words as ideographs; they also have a distinct grammar for the arrangement of these glyphic words unlike that of highly developed written language.

J. W. Powell, in Rep. Bur. Amer. Ethnol., 1898-99, [p. clxix.]

[p. clxix.]

[p. clxix.]

Framsmis the disease to healthy tubers.

Same as mental point (which see).

See also cut under craniometry.

gnathism (nath'izm), n. [Gr. $\gamma \nu \dot{\alpha} \theta o \varsigma$, jaw, +
-ism.] The angle of projection of the upper

which sublime without melting. It is prepared by the interaction of ammonia and glyoxal.

Also called diglyoxaline.

glycosolvol (gli κ̄ō-sol-vōl), n. [glyco(se) + L. solvere, dissolve, + -ol.] A diabetic remedy of indefinite composition and action.

glycosometer (glī-kō̄-som'e-ter), n. [glycose, as synonym of that term in its restricted] meaning.

Glyptocrinus (glip-tok'ri-nus), n. [NL., < γλυπτός, carved, + κρίνου, lily (see crinoid).] genus of camerate crinoids of the family Melocrinidæ, with a deep obconical calyx ornamented by ridges and radiating striæ. It is of Lower Silurian age.

glyptodontoid (glip-tō-don'toid), a. [glypto-don(t-) + -oid.] Related to or having the characters of Glyptodon.

Glyptolepis (glip-tol ē-pis), n. [NL., < Gr. γλυπτός, carved, + λεπίς, a scale.] A genus of extinct ganoid fishes from the Old Red Sandstone of Britain, commonly regarded as synon-ymous with *Holoptychius* (which see).

glyptologist (glip-tol'ō-jist), n. [glyptolog-y + -ist.] A student or collector of engraved

glyptology (glip-tol'ō-ji), n. [Gr. γλυπτός, carved, engraved, + -λογία, < λέγειν, speak.]
The study of engraved gems and other small sculpture. N. Y. Sun, Feb. 23, 1904.

Glyptopomus (glip-tō-pō'mus), n. [NL., \langle Gr. $\gamma \lambda \nu \pi \tau \sigma_0$, carved, $+\pi \tilde{\omega} \mu a$, a lid.] A genus of ganoid fishes from the Old Red Sandstone of Scotland. The scales and external bones are ornamented with irregular wrinkles.

Glyptoscorpius (glip-tō-skôr'pi-us), n. [NL., ⟨Gr. γλυπτός, carved, + σκορπίος, a scorpion.]
A genus of merostome Crustacea of the order Eurypteridæ, with decided arachnid affinities in the clawed limbs and the comb-like structures similar to the pectines of scorpions. is found in the coal-measures of Scotland.

glyptothek (glüp"tō-tāk'), n. [G.] Same as glyptotheca

gm. An abbreviation of gram. G. M. B. An abbreviation of An abbreviation of Great Master of

the Bath.
G. M. I. E. An abbre of the Indian Empire. An abbreviation of Grand Master

G. M. K. P. An abbreviation of Grand Master of the Knights of St. Patrick.
G. M. M. G. An abbreviation of Grand Master of St. Michael and St. George.
G. M. P. An abbreviation of Grand Master of

jaw measured by the angle between the horizontal and one of the facial lines. See prognathism, orthognathism.

gnathobase (nath'ō-bās), n. [Gr. γνάθος, jaw, + βάσις, base.] The proximal or coxal extremity of the leg in many Crustacea when modified for the purpose of crushing food by the development of a series of short hard spines, as in

is a synonym of that term in its restricted meaning.

Glyphioceratidæ (glif'i-ō-se-rat'i-dē), n. pl. [NL., ⟨ Glyphioceras (-at-) + -idæ.] A family of ammonoid cephalopods or goniatites, in typical forms being rotund and involute with the lateral sutural lobes and saddles relatively simple. It is of Carboniferous age and is strictly synonymous with the division Goniatitidæ.

Glyptic period, in geol., a division of the Human period based on the character of the paleolithic relies found in the caves of Ferigord, France.

The Magdalenian period or Glyptic of Piette has been further divided by him into two great epochs, the Eburnean or time of the mammoth, going back into glacial times, when the men lived who carved the likeness of that animal on its tasks, and the Tarandean or reindeer still lived in the south of France and were hunted by a more advanced type of mankind.

Getite, Text-book of Geol. (the ed.), II. vl. 1349, note. Glypticardia (glip-tō-kār'di-ā), n. [NL., ⟨ Gr. γλωπτός, carved, + καρδία, heart.] A gem-cutter, gem-engraver, or lapidary.

Glyptocardia (glip-tō-kār'di-ā), n. [NL., ⟨ Gr. γλωπτός, carved, + καρδία, heart.] A synonym of *Buchiola (which see).

Glyptocardia (glip-tō-kār'di-ā), n. [NL., ⟨ Gr. γλωπτός, carved, + καρδία, heart.] A synonym of *Buchiola (which see).

Glyptocardia (glip-tō-kār'di-ā), n. [NL., ⟨ Gr. γλωπτός, carved, + καρδία, heart.] A grathochilarium (nath'ō-ki-la'ri-um), n.; pl. γαπαthochilarium (nath'ō-ki-la'ri-um), n.; pl. γαπαthochilarium (nath'ō-ki-la'ri-um), n. [Gr. γνάθος, iaw, + μετρον, measure.] An instrument used for measuring the angles of the lower jaw. γλωπτός, carved, + κοριον, lily (see crinoid).] A γναπτός, carved, + κοριον, lily (see crinoid).] A γναθος, jaw.] Sycophancy.

Gr. $\Gamma \nu \dot{a} \theta \omega \nu$, a nickname (' one who is all jaw'), < γνάθος, jaw.] Sycophancy.

"Could the light of such a Gospel as we profess be eclipsed with the interposition of a single marriage? And yet Hacket must have lived to see the practical confutation of this shallow Gnathonism in the result of the marriage with the Papist Henrietta of France!

Coleridge, Notes on Hacket, in Lit. Remains, III. 157.

gnathophorous (nā-thof'ō-rus), a. [Gr. $\gamma \nu \dot{\alpha} \theta x$, jaw, + - $\phi \rho \rho \sigma$, $\langle \phi \dot{\epsilon} \rho e v \rangle$, bear.] Bearing jaws: noting the jaw-bearing sclerites of arthropods. gnathopod, n. 2. A gnathopodite. Gnathostomata, n. 3. A tribe of irregular

echinoids having a central peristome sur-rounded by a perignathic girdle, the ambulars all similar, and the jaws present but some-times rudimentary. It includes both living and extinct genera.—4. A name given by Haeckel to a superclass of vertebrates contains ing the forms with true jaws, (normally) two pairs of limbs, and double nostrils. Same as Gnathostomi and synonomous with Amphirihim. gnathostomate (nā-thos'tō-māt), a. [Gr. $\gamma \nu a\theta o_0$, jaw, + $\sigma \tau \phi \mu a$, mouth, + -atel.] Having a masticatory apparatus, as in echinoids gnathostome (nath'ō-stōm), n. A member of the Gnathostomata, or vertebrates having true jaws.

The gnathostomes embrace the great majority of verterates.

J. T. Kingsley, Vert. Zool., p. $\stackrel{\text{def}}{\simeq}$

gnatoo (ngä'tö), n. [Tonga gnatoo, more propspelled *ngatu, or, as now, gatu (pron. ngä'tö).]
A paper-cloth (kapa or tapa) made from the

A paper-cloth (kapa or tapa) made from the bark of the paper-mulberry (Broussonetia papyrifera), and printed with a pattern.
gnaur, n. Same as gnarl and knarl.
gneiss, n.—Bojan gneiss, a red gneiss found on the border of Bavaria and Bohemia.—Fundamental gneiss.
Same as *basement complex.—Hercynian gneiss. *
*Hercynian, 2.—Lewislan gneiss, massive gneisses of the Hebrides and northern Scotland: named after the island of Lewis by Murchison in 1858. See Levisian *Agroup.

gneissitic (nī-sit'ik), a. Same as gneissic.
gneissosity (nī-sos'i-ti), n. [gneissose + -ity.]
In petrog., the character or structure of gneiss.
Gnetales (nē-tā'lēz), n. pl. [NL. (Engler.
1887), < Gnetum + -ales.] An order of gymno-St. Patrick.

G. M. S. I. An abbreviation of Grand Master of the Star of India.

G. M. T. An abbreviation of Greenwich meridian time.

gnat¹, n.—Potato-scab gnat, a mycetophilid fly, Epidapus scabiei, which breeds in scabby potatoes and transmits the disease to healthy tubers.

gnathion (nath'i-on). n. [NL.. dim. \(\) Gr. yváfoc.

gnathion (nath'i-on). n. [NL.. dim. \(\) Gr. yváfoc.

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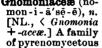
gnomium (no'mi-um), n. [NL., alluding to the etymological meaning of the associated cobalt; (gnome².) In chem., a supposed new metal having a high atomic weight, which Krüss announced in 1892 as associated with nickel and cobalt, and the presence of which he believed to be the cause of the assignment of too high a value to the atomic weight of cobalt. It has been shown that the supposed discovery was an error.

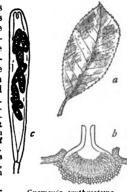
gnomologist (nō-mol'ō-jist), n. [qnomolog-y

+ -ist.] Same as gnomonist.

Gnomonia (nō-mō'ni-ā), n. [NL. (Cesati and de Notaris, 1863), ⟨Gr. γνώμων, the index of a dial, a pillar, rod: see gnomon.] A genus

of pyrenomycetous fungi, type of the family Gnomoniaceæ, having the aceæ, having the perithecia embedded in the tissue of the host, with only the elongated only the clongated necks projecting. The spores are clongate, hyaline, and 2-or 4-celled. About 60 species have been described, many of which are parasitic. G. erythrostoma attacks the leaves of the cherry, producing *leaf-scorch (which see). Gnomoniaceæ (nō-





Gnomonia erythrostoma.

a. diseased leaf of cherry showing
the habit of the fungus (reduced); b.
section through a perithecium (enlarged); c. an sacus, containing eight
spores (highly magnified).

fungi of the order Sphæriales named from the genus Gnomonia. They have membranous peri-thecia embedded in the tissue of the host and usually with an elongate projecting neck. The spores are hyaline. See

#Gnomonia.

Gnomonic net. See *net¹.
gnomonological (nō "mō-nō-loj'i-kal), a.
[gnomonolog-y + -ic-al¹.] Pertaining to the art of dtaling. Bailey.
gnoscopine (nos 'kō-pin), n. [Appar. ⟨ Gr. (γι)γνωσκειν, know, + δπιον, opium, + ·ine².]
A colorless alkaloid, C₂₂H₂₃O₄N, which crystallizes in lustrous prisms and melts at 228° C.
It is contained in onium and is closely related It is contained in opium and is closely related to narcotine.

gnostid (nos'tid), n. and a. I. n. A member of the family Gnostidæ.

II. a. Of or belonging to the coleopterous

family Gnostidæ.

family Gnostidæ.

go, v. i.—Going through the fleet (naut.), a form of punishment at one time used in the navy in which the culprit received a portion of the flogging to which he had been sentenced alongside of each of the various vessels which made up the fleet. It was punishment of the most degrading character.—Going to Boston, a game of poker-dice with three dice only, the winner being the player with the highest number of plps up. Sometimes called Yankee grab. See *poker-dice.—Going witness. See *winness.—Let her go off (naut.), an order to the man at the wheel to put the tiller to the weather side so that the vessel's head may pay off to leeward.—To go free (naut.), to sail so that the yards may be braced in and the sheets slacked. See free, adv.—To go in. (b) In poker, to put up the ante for drawing cards; to go into a jack-pot which is already opened.—To go large (naut.), to sail with the wind well abatt the beam.—To go over.

(a) (2) In bridge, to double the value of the trump. See *bridge.

go, n. 8. As much as is or can be fetched at one going or trip: as, to fetch a go of water from the well; hence, as much as is supplied at one time; a dram: as, a go of gin. [Colloq:]—9. A bargain; a compact; a thing fully agreed upon: as, "Well! is it a go?" [Colloq.]—On the go, restlessly or busily active: as, he's on the go all the time.

go² (gō), n. [Jap.] A Japanese measure of capacity equal to 11.01 cubic inches.
 Go. An abbreviation of Gothic.

G. O. An abbreviation (a) of General Order;

(b) [l. c.] of great organ.

goaf-burned (gōf 'bernd), a. [goaf, 2, +
burned.] Heated in the mow or goaf. N. E. D.

[Obsolete or prov. Eng.] goaf-horse (gốt'hôrs), n. [goaf, 2, + horse.]

A horse ridden upon grain stored in a barn to compress it. N. E. D. [Obsolete or prov.

Eng.]
goai (gō'ī), n.

Eng.]
goai $(g\tilde{o}'i)$, n. [A colonial form of Maori kowhai (see def.) = Hawaiian ohai, Mangarevan koai, Paumotan kofai, applied to different plants.] In the southern island of New Zealand, the timber of the native locust or yellow kowhai, Sophora tetraptera, a member of the bean family. The timber is red in color and very durable, and is used for family and and very durable, and is used for fencing and for piles in bridges and wharves.

goal, n. 7. In astron., the point on the celes-

tial sphere toward which the motion of a body

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grees west of the sun.

goal-cage (gôl'kāj), n. In roller-polo, the wire hetting which stops the ball in the goal after its entrance.

Gobiesos (-esoc-) + -inæ. A Sublamily of issues (typified by the genus Gobiesos.

Gobiesos (-esoc-) + -inæ. A Sublamily of issues (typified by the genus Gobiesos.

Hypified by the genus Gobiesos.

Gobiesos (-esoc-) + -inæ. A Sublamily of issues (typified by the genus Gobiesos.

Hypified by the

goal-line (gōl'līn), n. In foot-ball, hockey, la-Gobioidinæ (gō'bi-ō-i-dī'nē), n. pl. [NL., < crosse, and similar games, a line at the end of Gobioides + -inæ.] A subfamily of gobies the field which passes through the goals.

mon use in Australia for any large lizard; specifically, the lace-lizard, Varanus varius.

go-ashore (gō'a-shōr'), n. [Said to be a fanciful perversion of the Maori name $k\bar{o}hua$. This could be heard as *gowa, which, understood as an incomplete phrase go a-, could be neatly completed, in a nautical fashion, as go-ashore.] A three-legged iron pot with two ears to which was attached a wire handle for suspension on a crane over a fire. [New Zealand.]—Go-ashores (naut.), a seaman's best suit of clothes.

(naut.), a seaman's best suit of clothes.

goat. n... Cashmere goat, a small, strongly built variety of the domesticated goat, Capra hircus, which has a thick undercoat of wool beneath the long outer hair. The wool is combed out in summer and used for making cashmere shawls and fine cloth. The variety is found most abundantly in Tibet.—Nubian goat, a long-legged, coarse-haired breed of goat, found in Nubia, Upper Egypt, and Abyssinia, which has the face strongly curved, the horns lying close to the neck, and the ears long and pendulous.—To ride the goat. See *ride.

goat-bush (gōt'bush), n. A prickly shrub, Castela Nicholsoni, of the quassia family, growing in the southwestern United States

growing in the southwestern United States and northern Mexico. Also called chaparroamargoso, on account of its bitter bark.

amargoso, on account amargoso-bark.
goat-fig (got'fig), n. Same as caprifig.
goat-fish, n.—Yellow goat-fish, Upeneus martinicus, a fish of the family Mullidæ, found in West Indian waters and north to Key West.

A form of lightning-

and north to key West.

goat-horn (gōt'hôrn), n. A form of lightningarrester consisting of two metal rods, bent in
the form of horns facing each other, one of
which is connected with the ground and the
other to the transmission-line which is to be protected.

coat-jug ($g\bar{o}t'jug$), n. A cream-jug having a base modeled in the form of a recumbent goat and the figure of a bee modeled in relief. Jugs of this design were made in the eighteenth century at both Bow and Chelsea, England.

goatling (got'ling), n. A young goat; specifically, a goat between one and two years old.

[At] the half-yearly meeting of the British Goat Society... held yesterday... the newly coined word 'goatting' was adopted, to distinguish goats above 12 months and under two years old. *Times* (London), Dec. 7, 1883.

goat-moth, n.—Poplar goat-moth, a North American cossid moth, Cossus centerensis, whose larva bores in the trunks of Populus tremuloides.
goat's-beard, n.—Dwarf goat's-beard, the dwarf dandelion, Krijia Dandeiton.—Virginia goat's-beard, Krijia Virginica, a plant with a scape one to two feet high and handsome orange-yellow flowers, found throughout most of eastern North America. Also called cynthia.

out most or eastern North America. Also called cynthia.

Goatweed emperor. See *emperor.

gob¹ (gob), v. i.; pret. and pp. gobbed, ppr. gobbing. To brag; boast. [Prov. Eng.]

gobble¹ (gob'l), n. In golf, a putt played with such force that it would be carried some distance past the hole if it did not go in, but which does go in. which does go in. gobbler¹, n. 2. An automatic bucket the halves

of which separate at the bottom when lowered and close when a strain is put upon the hoist-ing-chain, digging into the material to be loaded. When the strain is removed the weight of the load causes the bucket to open.

gobbo (gob'o), n. [Prob. W. African.] The okra or bandakai, Abelmoschus esculentus. gobemouche (gōb-mösh'). n. [F., \langle gober, gulp, + mouche (\langle L. musca), fly.] A gaping simpleton who believes everything that he hears; a credulous person

lous person. gobernadora (gō'ber-nä-dō'rä), n. [Span., fem of gobernador. governor.] In Mexico, fem. of gobernador, governor.] In Mexico Covillea tridentata, the creosote-bush, an ill smelling evergreen bush of the family Zygophyllaceæ. An infusion or tincture of the leaves is used as a remedy for gout and rheumatism.

gobernadorcillo (gō-ber-nā-dōr-thēl'yō), n. [Philippine Sp., dim. of gobernador, governor.] The governor or head-man of a village or small town in the Philippines.

is directed; thus, the earth's goal at any mo-Gobiesocinæ (gō'bi-ē-sō-sī'nē), n. pl. [NL., < ment is a point on the ecliptic about 90 de-Gobiesox (-esoc-) + -inæ.] A subfamily of fishes

crosse, and similar games, a line at the end or the field which passes through the goals.

goal-striker (gōl'strī'ker), n. In certain games, the player who stands nearest his opponent's goal and endeavors to strike the ball through it.

goanna (gō-an'ä), n. A popular variant of goanna (an abbreviated form of iguana) in compand (an abbreviated form of iguana) in comp

Gobionellus ($g\bar{o}'bi-\bar{o}-nel'us$), n. [NL., $\langle L.$ gobio(n-), goby, + -ellus.] A genus of gobies



Gobionellus oceanic (From Bull. 47, U. S. Nat. Museum.)

characterized by the elongate body and pointed caudal fin. G. oceanicus is the commonest American species.

Gobiosoma (gō'bi-ō-sō'mä), n. [NL., <L. gobius goby, + Gr. $\sigma \omega \mu a$, body.] A genus of small gobies characterized by the naked body and blunt head. G. bosci is common along the Virginia and Carolina coasts.

ginia and Carolina coasts.
goblinic (gob-lin'ik), a. [goblin + -ic.] Gob-lin-like; of the nature of a goblin; of or pertaining to a goblin.
gobo (gō'bō), n. [Jap. go-bō.] The common burdock, Arctium Lappa. It is much cultivated in Japan for its root, which is there a popular garden vegetable.

goborro (gō-bor'ō), n. [Aboriginal Australian name.] The Australian dwarf-box, Eucalyptus name.] The Australian dwa microtheca. See *coolibah.

goburra (gō-bur'ā), n. A variant of kookaburra, the aboriginal Australian name for the laughing-jackass, Dacelo gigas. Also gobera.

ing-jackass, Dacelo gigas. Also gobera.

goby, n.—Blind goby, a small goby, Typhlogobius californensis, without eyes in the adult stage, found on the coast of California.—Crested goby, a fish of the genus Lophogobius, characterized by a short body and a crested head, found in the waters of Cuba.—Half-naked goby, a fish of the genus Garmannia, found on the shores of Panama.—Long-jawed goby, a name given to fishes of the species Glichthys mirabilis, a small goby found burrowing in themud on the coast of California, remarkable for the backward extension of its upper jaw.—Naked goby, a fish of the genus Gobiosoma, found in the south Atlantic and Gulf coasts of the United States.

god¹, n.—Little tin god or little tin god on wheele

gOd¹, n.—Little tin god or little tin god on wheels, a slang name for a man who assumes an air of importance and authority ludicrously out of proportion to his actual position and attainments; a man who makes a fetish of himself.

Wherefore the Little Tin Gods harried their little tin

Seeing he came not from Chatham, jingled no spurs at his heels.

his heels,
Knowing that, nevertheless, was he first on the Government rolls
For the billet of "Railway Instructor to Little Tin Gods
on Wheels."
R. Kipling, Departmental Dittles, Public Waste, st. 5.

The dusk of the gods. See the *twilight of the gods.—
The twilight of the gods. See *twilight.
Goddess of Liberty [L. Libertas], liberty personnied
by the Romans as a goddess: occasionally used as an
emblem.

godfather (god'fä'THèr), v. t. [godfather, n.]
To act as godfather to; be sponsor for. Burke.
godhed, n. A simplified spelling of godhead.
goditcha (gō-di'chä), n. Same as *kurda-

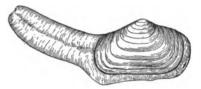
godparent (god'par-ent), n. A godfather or a godmother.

godron (gō-drôn'), n. [F.] Same as godroon. godroonage (go-drôn'āj), n. [godroon + -age.] In decorated art, godroons collectively.

godrooned (go-drönd), p. a. [godroon + -ed², after F. godrooné.] Ornamented with godroons. god-shelf (god'shelf), n. In Japan, a shelf in a household on which are placed the objects of household worship, forming a kind of domestic altar: the Japanese name is kami-dana, and among Buddhists Butsu-dana. See *Kami-dana.

goeduck (gō'ē-duk), n. [Also geoduck; from a native name.] A large edible clam, Panopea

enerosa, of the northwest coast of the United States. With siphons extended it sometimes reaches a length of from 3 to 4 feet and weighs from 6 to 10 pounds. It lives buried deep in sand or clay near low-tide mark.



Goeduck (Panopea generosa).

In Alaskan waters is found a monster clam, the "geoduck," one of which would afford a meal for several persons; not so large, however, as the great tridaena and its species, which weighs, with its two valves, five hundred pounds, the animal alone weighing thirty.

Sci. Amer. Sup., April 11, 1903, p. 22,806.

goelism (gō'e-lizm), n. [Heb. goel (redeemer, avenger), +-ism.] The custom which recognizes an authorized 'avenger of blood' and

makes blood-revenge obligatory.

goemin (gō'e-min), n. [F. goém(on) (< Bretgwemon, seaweed) + -in².] A compound obtained from Irish moss, obtained by boiling carrageen.

gofer-iron (gō'fer-i'ern), n. A double mold with long handles in which gofers, or waffles are baked; a gofering-iron. Also called gofer-

gofer-tongs (gō'fer-tôngz), n. pl. Same as

Goffered schist. See *schist. goffering-frame (gof'er-ing-fram), n. A frame with a series of small rods between which the

fabric to be goffered or ruffled is worked.
goffering-machine (gof'er-ing-ma-shēn'), n.
An apparatus for plaiting or ruffling textile

goffering-tongs (gof'er-ing-tôngs), n. pl. An iron tool which is heated and used for goffering or ruffling fabrics.

goggle¹, n. 3. pl. A parasitic disease of sheep, caused by the presence of a bladder-worm in the brain which causes dizziness, staggering gait, walking in a circle, spasms, and convulsions. Also called staggers, gid, and turnsick.—4. [pl.] The garden gooseberry, Ribes Grossularia.

Gogle-eyed scad. Same as goggle-eyed jack. goggle-goy (gog'l-goi), n. The hellgrammite fly, Corydalus cornutus. [Local, New Eng.] goggly (gog'li), a. Affected with the goggles: as, goggly sheep.

gogo (gō'gō), n. [Tagalog name.] In the Philippine Islands, a giant climber, Lens phase-[Tagalog name.] In the oloides, of the mimosa family, usually growing near the sea, the stems of which are pounded and used as a detergent by the natives. See sea-bean, 1, similar-pod, match-box *bean, and *beauen, with out.

sea-bean, 1, simitar-pod, match-box *bean, and *bayogo, with cut.
gohanna (gō-han'ā), n. See *goanna.
gohei (gō-hā'), n. [Chino-Jap. gō, (Chin. yū), august, imperial; + hei, (Chin. pi), a present or presents.] In the Shinto shrines of Japan, a sleuder wand of unpainted and unvarnished wood, originally a branch of Cleyera japonica, from which hang two long strips of white Japanese paper, notched alternately on opposite sides, representing offerings nately on opposite sides, representing offerings of rough and fine white cloth. There is but

or rough and nine white cloth. There is but one gohei to each deity worshiped at any particular temple. M. Satow.

Goidel (goi'del), n. [OIr. Góidel, pl. Góidil, a Gael: see Gael. and cf. Gadhel.] A member of the 'Gaelic' branch of the Celtic race, namely, the branch represented by the Irish and the Gaels of Scotland. See Gadhels, in The Century Cyclopedia of Names.

goldelic (goi-del'ik), a. and n. I. a. Of or participing to the Goidels

pertaining to the Goidels.

II. n. The language of the Goidels ancient Celtic of the branch represented by Old Irish, and by modern Irish and Gaelic.

going, n. 7. In stair-building, the width of the stairway or length of a tread. [Local Eng.] going-train (go'ing-train), n. An operating train; that part of the gear-train in a time-piece which drives the hands.

goke² (gok), n. [A var. of colk¹.] Naut., the heart of a rope; the core in the center of a

gola (gō'lä), n. [Also golah; < Hind. golā, warehouse, esp. for grain, a curb, a pier, a ball, etc., a cannon-ball, etc., \(\langle gol, \) round. A ware-

Golconda (gol-kon'da), n. The name of a city of India noted in the sixteenth century for its great diamond-cutting industry; hence, allusively, a mine of wealth.

its great diamond-cutting industry; hence, alusively, a mine of wealth.

gold. I. n.—Abyssinian gold. Same as taimi-gold.
—Alluvial gold, placer-gold.—Best gold, the hit in the gold which is nearest the central point of the target. In archery competitions a prize is often given for the best gold.—Burmese gold, gold to which a yellow or red color has been imparted by treatment with acids and the subsequent application of rouge and other reddish colorations to the depressed parts of the ornamentation.—Burnished gold, in ceram., porcelain gilding which has been brightly burnished by means of a bloodstone burnishing-tool.—Chased gold, in ceram., gilding on porcelain glaze which has been brightened in places by means of a pointed agate burnishing-tool. The lines are formed by working the point to and fro over the dull gold and are widened by repetition. At Sèvres and some other French factories intricate patterns and elaborate pictures were drawn on the dull gold ground and executed in this manner, the result being a beautiful contrasting effect of bright and dead or mat gold, exhibiting the accuracy of a fine engraving. This process has also been employed to some extent in England and other European countries, but is particularly characteristic of fine French porcelains made about 1880.—Diamine gold, a direct cotton coal-tar color of the disazo type, derived from diamidonaphthalene. It dyes unmordanted cotton a golden yellow in an alkaline salt bath.—Glassbrushed gold, in ceram., porcelain gilding which is rubbed with a brush of glass fibers to produce a emibright effect. This method is an improvement upon the gold-sanding process, and was quicker in its results. See sanded *gold.—Gold brick, a brick-shaped mass of rubbed with a brush of glass nbers to produce a _emi-bright effect. This method is an improvement upon the gold-sanding process, and was quicker in its results. See sanded wyold.—Gold brick, a brick-shaped mass of gilded metal of no intrinsic value, which plausible swindlers, of a certain class, sometimes pass off as genuline, at a tempting price, on unwary purchasers; hence, any similar swindle. Frequently used attributively: as, another gold-brick swindle. [Slang, U. S.].—Jeweler's gold, an alloy containing three parts of gold to one of copper: known as 18 karat gold, that is, gold of which 18 parts out of 24 are pure metal. No gold of a less purity is admitted into France.—Lump gold, gold found in placer-mining in the form of lumps or nuggets.—Rusty gold, free gold which does not easily amalgamate, the particles being coated, as is supposed, with oxid of iron.—Sanded gold, porcelain-gilding which has been rubbed with fine sand to produce a semi-bright effect.—To measure golds, in archery, to measure the distance from the center of each arrow in the gold, in order to determine the best gold.

II. a.—Gold brown. Same as phenylene brown

II. a..—Gold brown. Same as phenylene brown (which see, under brown.—Gold luster, penny. See **luster2*, etc.—Gold reserve. See reserve. gold-balls (gold balz), n. pl. Buttercups; applied more especially to the creeping butter-

cup, Ranunculus repens. gold-beetle (göld'bē"tl). n. Any'one of several

gold-peetle (gold'be"tl). n. Any one of several leaf-beetles and tortoise-beetles, as Chrysochus auratus and Coptocycla aurichalcea.
gold-boat (göld'böt), n. A boat used in dredging for gold.
gold-bug (göld'bug), n. 1. A beetle of a golden color.

The Gold Bug. 2. An advocate of the single gold standard in finance; a 'gold man.' [Opprobrious and slang, l

gold-chain (gold'chan), n. The wall-pepper,

Sedum acre.

gold-cure (göld'kūr), n. A secret method of treatment of the drink habit in which the chier remedy employed is said to be chlorid of gold.
gold-diggings (gold 'dig 'ingz), n. pl. Any
region where gold-bearing sands and gravel
abound and where gold is being exploited by digging and washing: sometimes also applied to the mining of gold-bearing quartz.

to the mining of gold-bearing quartz.

gold-dropper (göld'drop'er), n. A sharper; one of a pair who, having dropped a gold coin, picks it up in the presence of a stranger, and pretending to have just found it, engages his attention while the confederate robs him.

Golden aster, any plant of the genus Chrysopsis, asterlike composites of North America with bright golden-yellow flowers. C. Marana, the Maryland golden aster, is very abundant in the eastern United States and one of the handsomest wild flowers, blooming from July to September.—Golden ball, in bot., the globe-flower, Trollius Europeus, applied also to the American or apreading globe-flower. T. lazus.—Golden book, the official list of the nobility of Venice.—Golden calf, earth, grease, syrup, text, type. See *calf1, etc.—Golden cup, golden guineas, the pilewort or lesser celandine. Ficaria Ficaria.

goldeneye, n. 4. Melithreptus lunulatus, a small species of honey-eater. [Australia.] goldenglow (göl'dn-glō), n. The tall coneflower, Rudbeckia laciniata, which has a profusion of yellow flowers, the conical disk being

fusion of yellow flowers, the conical disk being also yellow. It ranges from Canada to New

mexico.

golden-Jerusalem (gōl'dn-jē-rö'sa-lem), n.
The common cone-flower, Rudbeckia hirta.
goldenknop, n. 2. pl. Same as *goldknops.
goldenlocks (gōl'dn-loks), n. 1. The common
polypody, Polypodium vulgare.—2. The golden
cudweed, Pterocaulon virgatum.

house for storing grain, salt, etc. [Anglo-goldenoak (gōl'dn-ōk), n. The smooth false Indian.]

Golconda (gol-kon'dä), n. The name of a city which resemble those of the oak.

foxglove, Dasistoma Virginicum, the leaves of which resemble those of the oak.

goldenrod, n.—Alpine goldenrod, Solidago alpestri, of alpine summits in Europe and of the White and Green Mountains in America. It belongs to the type of S. Virgaurea, but is dwarf with very few large heads and spatulate radical leaves.—Aniso-scented goldenrod. Same as suvet *goldenrod.—Beach-goldenrod. Same as seaside-*goldenrod.—Beach-goldenrod.

Solidago cæsia, a low, partially prostrate or reclining species with usually bluish or purple stems, lanceolate, sharply serrate leaves, and bright-yellow heads mostly in clusters in the axils of the reduced upper leaves: common in eastern North America.—Bog-goldenrod, Solidago uliginosa, a stout thyrsiform species growing in bogs and swamps, chiefly in the region of the Great Lakes and extending east to Newfoundland and south to New Jersey; it blooms in July.—Boott's goldenrod, Solidago Bootfii, a slender and graceful species with few one-sided racem s and long lanceolate serrate leaves rarrowed into winged petioles: found rather sparingly in dry woods from Virginis to Florida and Texas.—Broadleaved goldenrod. Same as zigzag *goldenrod.—Bushy goldenrod. Euthamia graminifolia and E. leptocephala, the latter distinguished as Western bushy oddenrod. They resemble true goldenrods of the cymoetype, but have the receptacle fimbrillate instead of alveolate, the rays more numerous than the disk-flowers, and linear entire leaves. They are also more or less fragrant, and hence are called fragrant goldenrod, at least the eastern United States species, which, however, is widely distributed, ranging from New Brunswick to Florida and west to Nebraska and the Northwest Territory. The other species is more slender, and is found from Missouri to Louisians and Texas.—Canads or Canadian gel.

denrod, Solidago
Canadensis, the most slender, and is found from Missouri to Louisians and fexas.—Ganads or Canadian gel.

denrod, of feet, and of the propertical propertical propertical propertical propertical proper

dense masses, mon-opolizing the soil and becoming a noxious weed. The and becoming a noxious weed. The color of the flowers is a rather dull yellow, and the species is in many respects less ornamental than several other smaller and less abundant ones. It occurs from New Brunswick to British Columbia and the special columbia and the special

a, summit of stem and inflorescence; b, middle portion of stem; c, a ray flower; d, a disk flower; a and b, one sixth natu-ral size, c and d, enlarged.

asumit of stem and inforescence:

b, midel portion of stem: c. a ray flower;

all and south to Florida and Arizona. A common name in some
districts is yellow-weed.—Ganary Islands goldenrod. Same as goldenrod. Area. See also tree-goldenrod.—Curtis's goldenrod, Solidago Curtisii, a mountain species of
the southeastern United States with abundant flowers in
short clustered racemes in the axils of the upper leaves.

—Gut-leaved goldenrod, Solidago arguta, a tall, slender, handsome species of the Adirondacks, where it ascemeds to an altitude of 2,700 feet, ranging to New England, Ontarlo, Ohio, and Virginia. It has recurved racemes and large ovate, coarsely and sharply serrate
leaves.—Double goldenrod. Same as Canada or Canadion Agoldenrod.—Drummond's goldenrod, Solidago Drummondii, of the Mississippi valley, a pubescent
plant with broad ovate leaves and short, rather loose, partially one-sided racemes or clusters of flowers in the axils
of reduced upper leaves, or terminal, the rays large and
conspicuous.—Dwarf goldenrod. (a) A dwarf form of
the European goldenrod. (b) Same as Granda or or
the European goldenrod, Solidago junceo, one of the most beautiful of goldenrods, serial goldenrod. (b) Same as gray *goldenrod.—Early goldenrod, Solidago junceo, one of the most beautiful of goldenrod, serial particular in most latitudes by the
first of August and last through that month, it inaugurates the series of goldenrods which continues the display
throughout the season. Also called yellow-top.—Elliott's goldenrod, Solidago Elliottii, a swamp species
found near the coast from Massachusetts to Georgia
sometimes 3 feet high, bearing a long terminal recurved
raceme and shorter axillary ones below.—Rim-leaved
goldenrod, Solidago ulmijolid, having the lower leaves
broadly ovate and strongly nerved, suggesting those of
the elim, and few short recurved mostly terminal recemes
of dep-yellow flowers: widely distributed throughout the
eastern United States.—European goldenrod, See
bushy *goldenrod, Filed gol

goldenrod

manges from Newfoundland to British Columbia and south to Georgia and Texas.—Missouri goldenrod, Solidago Missouriensis, a widely distributed species of the western prairies of North America, ranging from Tennessee to Washington and from Texas to Manitoba. It sometimes grows 3 feet high and has linear-lanceolate triple-nerved leaves and terminal panicles of secund recurved branches.—Noble goldenrod, Solidago speciosa, a stout, tall species with broad ovate leaves, bearing a large terminal thyrse, ranging from Nova Scotia to North Carolina and west to Minnesota and Nebraska.—Northern goldenrod, Solidago multiradiata, a small, somewhat aberrant species with spatulate leaves, mostly near the ground, and as small terminal corymbose cyme of large heads sometimes having as many as 15 rays. It is found far north from Labrador and Hudson Bay to British Columbia, and south in the Rocky Mountains to Colorado.—Pale goldenrod. Same as white *goldenrod.—Pine-barren goldenrod, Solidago fistulosa, a tall hirsute species of the pine-barrens of New Jersey, extending southward to Florida and Louisians. It has ovate or lanceolate leaves and an open terminal panicle of recurved secund branches.—Plume-goldenrod, Solidago squarrosa and S. petiolaris, two anomalous species with elongate heads in which the consplicaous green recurved tips of the involucral bracts give them a squarrose or ragged appearance. The former ranges from New Brunswick and Ontario to Virginia and Ohio, and the latter from North Carolina to Florida and westward to Kansas and Texas.—Rayless goldenrod, Chomdrophora nudata, a plant resembling the cymose type of goldenrod, but destitute of ray-flowers. It has a slender stem with linear-spatulate root-leaves much reduced above, and open corymbose cymes of yellow flowers. It occurs in the pine-barrens of New Jersey and thence south to Florida and west to Texas. The rabbit - brush, Chrysothamus nau-seosus, is called fetid

Chrysothamnus nauseous, is called fetid rayless goldenrod (see rabbit brush, with cut), and C. Houard's is distinguished as Houard's rayless goldenrod. The latter grows on the plains from Nebraska and Colorado to Utah and New Merica. — Riverto Utah and New Mexico. — Riverbank goldenrod, Solidago Purshi, a small species confined to rocky riverbanks, found from Newfoundland to Virginia. It has oblanceolate, obtuse, crenate root-leaves and linear stem-leaves, and a small



Rayless Goldenrod (Chondroph muda(a).

a, entire plant; b, a head; c, a floret.
(From Britton and Brown's " Illus. Flor of the Northern States and Canada.")

Newfoundland to Virginia. It has obtaneoelate, obtuse, crenate root-leaves and linear stem-leaves, and a small ocse terminal thyres of large heads.—Rock-goldenrod, Solidago rupestris, a handsome species growing on rocky banks of streams and fennessee. It has a siender stem 2-3 feet high, leaf-less below, the leaves linear-lanceolate, triple-nerved, and distantly sharply toothed, and a terminal pyramidal thyrse of dense, recurved, one-sided branches, symmetrically disposed.—Rough-leaved goldenrod. Same as spreading **spoidenrod.—Salt-marsh goldenrod. Same as spreading **spoidenrod.—Salt-marsh goldenrod. Same as seaside-**spoidenrod.—Seaside-goldenrod. Solidago sempervirens, a stout, leafy species inhabiting sea-beaches and salt-marshes from New Brunswick to Florida, and found also in Bernuda. It has thick, fieshy, entire leaves densely crowded on the stem, and a large terminal leafy panicle of compact heads on short recurved branches.—Sharp-toothed goldenrod. Same as early **goldenrod.**Spreading goldenrod. Same as soule **goldenrod.**Spreading goldenrod. Same as soule **goldenrod.**Ortheology spreading, secund, recurved branches.—Sharp-toothed goldenrod. Same as soule **goldenrod.**Ortheology spreading, secund, recurved branches.—Shrap-toothed goldenrod. Same as soule **goldenrod.**Ortheology spreading, secund, recurved branches of the loose panicle. It is a stout, rigid plant, sometimes of feet high, with broad elliptical, sharply serrate leaves on long winged petioles, and often angled stems. It grows in swamps from Maine to Minnesota and south to Georgia and Texas.—Stiff goldenrod. Solidago rigida, a very stout, tall species with thick and rigid ovate or oblong, long-petioled leaves and dense terminal corymbose cymes of clustered heads on slightly secund branches. It is found from Canada to Georgia and west to the Northwest Territory and Texas.—Swamp-goldenrod.—Syndenrod.—Sindenrod. Solidago regida, a very stout, tall species with thick and rigid ovate or oblong, results and substantial species of flowers on

weak and more or less reclining, and very broad, thin, ovate, acuminate, and finely serrate leaves, the flowers disposed in short axillary racemose clusters forming a narrow, loose terminal thyrse. It grows in rich woods from New Brunswick to Georgia and west to Minnesota and Missouri. Also called broad-leaved goldenrod.

goldenrod-gall (gol'dn-rod-gâl'), n. A gall or blight on the goldenrod caused by the magget of a fly, Trypeta solidaginis, or of a tineid moth, Galechia gallæosolidaginis.

goldenseal, n. 2. The false or wild spikenard, Vagnera racemosa.

golden-shower (gol'dn-shou'er), n. The laburnum.— Golden-shower tree, the purging cassia, Cassia fistula.

golden-slipper (göl'dn-slip'er), n. The larger yellow lady's-slipper, Cypripedium hirsutum. goldenstar (göl'dn-stär), n. Same as *golden

aster.

goldenstars (gōl'dn-stärz), n. A Californian liliaceous plant, Bloomeria crocea, nearly related to Hookera. The yellow flowers, an inch across, are borne in umbels of 50 to 60 each, appearing in great profusion at the close of spring.

goldentop (gōl'dn-top), n. An ornamental grass, Achyrodes aureum, which grows in low tufts and bears elegant one-sided panicles. It has been introduced from the Mediterranean region into southern California where it has

region into southern California, where it has

become spontaneous.
goldentuft (gōl'dn-tuft), n. See Pterocaulon.
goldenwing (gōl'dn-wing), n. A shortened
form of golden-winged woodpecker; the flicker.
gold-fever (gōld'fē'vèr), n. A feverish desire
to search for gold.

The height of the Klondike gold-fever in 1897.

Geog. Jour. (R. G. S.), XIII. 306.

2. pl. In California, a plant of gold-field, n. the composite genus Bæria and to some extent of the related genus Lasthenia: so named from the fact that these plants cover the ground with their yellow bloom. The species are low herbs, some of which endure saline or alkaline

goldfinch, n. 6. In angling, the name of an

artificial salmon-fly.
gold-founded (gold foun ded), p. a. Founded in connection with the discovery or exploita-tion of gold: as, a gold-founded city or town.

I rode up the narrow street, serpentine in construction as in all gold-founded townships.

Rolf Boldrewood, Miner's Right, ix.

gold-fringe (gold'frinj), n. An English collectors' name for a pyralid moth common to Europe and the United States, Hypsopygia costalis, the adult of the clover hay-worm.

costalis, the adult of the clover hay-worm.
goldknops (gold'nops), n. Either the tall buttercup, Ranunculus acris, or the creeping buttercup, R. repens. Also goldenknops.
gold-opal (gold'ō'pal), n. An opal of which the flames are of a rich golden-yellow color; also, an opal which is without a play of color and is cut with facets, forming a brilliant red or yellow-red stone. or yellow-red stone.

gold-print (gold'print), n. A print in goldleaf. Incorrectly applied to a print in gold ink or bronze, which lacks the full brilliancy of gold-leaf.

gold-printing (gold'prin-ting), n. Printing in gold-printing (gold printing), m. Frinting in gold-leaf. The type or design, rolled over with a size or giair, is strongly impressed on the surface to be printed. On this surface gold-leaf or gold bronze is laid. When fairly dry the surplus leaf or bronze is rubbed off with a pad of cotton or fur. To bring out a proper metallic luster, the print should be pressed or burnished. In bookbinding, the gold-leaf is applied to a glairy surface, and is impressed with a hot stamp or finishing-tool.

gold-rush (göld'rush), n. A feverish rush to of amassing wealth.

A light carriage, oldschmidtite (göld-shmit-īt'), n. [Named without top, having

of amassing wealth.
goldschmidtite (göld-shmit-īt'), n. [Named
after Professor V. Goldschmidt of Heidelberg.]
A variety of the gold-silver telluride, sylvanite, rich in gold and occurring in complex crystals of peculiar habit: found at Cripple Creek, Colorado.

gold-shrub (gold'shrub), n. Any one of several shrubs belonging to the genus Palicourea of the madder family, especially P. speciosa: so named from the golden color of the dried flower-clusters and the yellow-green color of

the leaves.
gold-solder (göld'sod'er or -sol'der), n. A solder suitable for gold or high-grade alloys. It consists of gold 12 parts, silver 2 parts, and copper 4 parts.

gold-spangle (gold'spang'gl), n. A British collectors' name for a noctuid moth, Plusia bractea.

gold-spot (göld'spot), n. A British collectors

name for a noctuid moth, Plusia festucæ.
gold-standard (göld'stan-därd), a. Using gold gold-standard (göld'stan-därd), a. Using gold alone as full legal tender. In the United States both gold and silver are legal tender (see silver); but since the demonetization of silver in 1873 the country has been on a gold basis, the purchasing-power of the depreciated silver dollar having been maintained by the policy of the government which has preserved its parity with gold. The situation in other double-standard countries is simflar. The gold standard prevails in Great Britain, Germany, Sweden, Norway, Denmark, Austria-Hungary, Turkey, Portugal, Brazil, Canada, Newfoundland, Egypt, Chile, Peru, Japan, Russia, Mexico, Bolivia, British India, and various other countries.

goldstone, n. 2. In ceram., an aventurin glaze containing particles which have the appearance of specks of gold.

gold-swift (gold'swift), n. A British collectors'

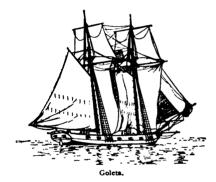
goldswift (gold swift), n. A British collectors name for a moth, Hepialus hectus.
goldtail, n. 2. A British collectors name for a liparid moth, Euproctis auriflua, closely related to the brown-tail moth.

gold-wash (gold'wosh), n. 1. A thin plating of gold.—2. A stream where gold is obtained by washing: generally used in the plural. gold-water (gold'wâ-têr), n. A liquid distilled

gold-water (göld'wâ-ter), n. A liquid distilled from a mixture of spices, spirits of wine, and water, and mixed with pulverized gold-leaf. Also called Dantzic brandy.
gold-weed (göld'wēd), n. The corn crowfoot, Ranunculus arvensis. Also called horse-gold.
gold-work (göld'werk), n. An article made of or decorated with gold; goldsmiths' work; also, the stopping or filling of teeth with gold.
golem (gö'lem), n. [Heb.] In Jewish use, a shapeless mass; an unfinished vessel or a lifeless bulk; in modern Jewish parlance, a blockhead; a stupid. The Talmud, as well as blockhead; a stupid. The Talmud, as well as modern Jewish folk-lore, tells of rabbis who constructed golems and endowed them with life.

goleta (go-lā'tā), n. [Sp. goleta = It. goletta

goleta (gō-lā'tā), n. [Sp. goleta = It. goletta = F. goualette, goëlette, goëlette; origin un-



known.] A Spanish two-masted vessel, rigged fore and aft, with high peak and low gun-wales: formerly much used by pirates in the Gulf of Mexico.

golf, n.—Amateur golf championship, an event in which amateurs only may participate.—Clock-golf, a variety of golf in which metallic numerals, from 1 to 12 inclusive, are placed at equal distances in a circle, the object of the game being to putt the ball from each of these points into a hole placed anywhere within the circle.—Open golf championship, an event in which both professionals and amateurs may participate.

hot stamp or finishing-tool.

gold-purple (gōld'per'pl), n. Same as purple golf-ball (golf'bâl), n. A ball with which the game of golf is played. See golf.

gold-rain (gōld'rān), n. A shower of small golf-cart (golf'kārt), n. Same as golf-gig.

sparkling stars discharged from a rocket or golf-croquet (golf'krō-kā'), n. A form of lawn pyrotechnic bomb.

game which combines the strokes of golf with e wickets of croquet.

> a gig-body and sidebar gear. golf-links

golf-links (golf'-lingkz), n. pl. The links or course over

Golf-gig.

links or course over which golf is played.

Golgi method. See *method.

Golgotha (gol'gō·thā), n. [LL. Golgotha, \
Gr. Γολγοθά, < Aram. gogoltha, Heb. gulgōleth, a
skull.] 1. The Hebrew (Aramaic) name of the
place of Christ's crucifixion, somewhere near
Jerusalem.—2. A graveyard or place of inter-

Presumptuous Churchmen, in most Parts of the Kingdom of Europe, have . . . burnt whole Towns, Male and

Female, Children and old Men, . . . dy'd the White Fields in Blood, turned them into a Golgotha.

Drummond of Hawthornden, Skiamachia, Works, p. 204.

goliardy (gō'li-är-di), n. The ribald jesting and satirical poetry of the goliards.
goliathize (gō-li'ath-īz), v. i.; pret. and pp. goliathized, ppr. goliathizing. [Goliath + -ize.] To talk after the manner of Goliath, that is, vauntingly; boast.

Walter Map. The banquet, from whence there puffed out such an incense of unctuosity into the nostrils of our Gods of Church and State, that Lucullus or Apicius might have snifed it in their Hades of heathenism— . . As to the fish, they de-miracled the miraculous draught, and might have sunk a navy—

Herbert. There again, Goliasing and Goliathising.

Tennyson, Becket, iii. 3.

Gods of Church and Gods of Church and Gods of Church and the fish, they de-miracled the miracle the fish, they de-miracle the fish, and they de-miracle the fish, they de-miracle the fish, they de-miracle the fish, they de-miracle the fish, they de-miracle the fish they de-miracle the fish, they de-miracle the fish the player sits.

In the Steams

In t

Goma brea. See *brea.
Gomarian (gō-mā'ri-an), n. A Gomarist.
gomart (gō-mārt'), n. [F. gomart, gommart,
< gomme, gum.] The Jamaican birch, Terebinthus Simaruba. It yields a gum-resin known
as cachibou (which see).
gomashta (gō-mash'tā), n. [Hind. gumāshta,
< Pers. gamāshta, appointed.] In India, a na-

gombay (gom'ba), n. [Supposed to be of African origin.] A festal performance among the negroes of Bermuda, usually held on Christmas eve: probably a survival, much modified, of an ancient African rite. Groups of masked men and boys go about the country from house to house, sing, dancing, and playing on musical instruments.

Gombei pottery. See *pottery.

Gombroon ware. See *ware?

Gombroon ware. Grownfor(*e-rs), n. FNI. (Gr.

Gomphoceras (gom-fos'e-ras), n. [NL., < Gr. γόμφος, a nail, + κέρας, a horn.] A genus of extinct nautiloid cephalopods of Paleozoic age, characterized by curved shells swollen in later stages and contracted near the aperture.

gomphoceratite (gom-fo-ser'a-tit), n. [gom-phoceras (-cerat-) + -ite².] In paleon., a member of the ammonoid genus Gomphoceras.

Gonactinia (gon-ak-tin'i-ā), n. [NL., ζ Gr., γόνος, generation (†), + ἀκτίς (ἀκτω-), a ray.]
The typical genus of the family Gonactinidæ.

Sars.

Gonactinidæ (gon-ak-tin'i-dē), n. pl. [NL., < Gonactinia + -idæ.] A family of Zoantharia, of the order Proactiniæ. They have a sulcus and a sulculus, eight Edwardsian macromesenteries, and eight micromesenteries. The sulcar and sulcular macromesenteries are sterile: the four remaining macromesenteries are fertile and form couples with four micromesenteries. The family contains the genus Gonactinia. G. prolifera reproduces itself asexually by strobilation. gonadial (gō-nad'i-al), a. [gonad (NL. *gonadium) + al¹.] Of or pertaining to a gonad, or reproductive organ, either male or female.

Many accomented worms in which important development.

Many segmented worms in which important developmental processes occur, e. g., formation of new gill slits, of gonadial sacs, or even of whole segments of the body, long after the power of reproduction has been acquired.

Encyc. Brit., XXVIII. 138.

gonadic (gō-nad'ik), a. [gonad + -ic.] Same as *gonadial.

gonarthrotomy (gon-är-throt'ō-mi), n. [Gr. γόνν, knee, + ἀρθρον, joint, + -τομία, < ταμεῖν, cut.] Operation on the knee-joint.

gondola, n. 7. A coach of unusual size with a boat-shaped bottom and seats for eight or more persons.

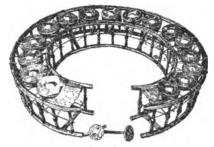
Gondwana system. See *system.

gonecium (gō-nē'si-um), n. Same as *gonæ-

gonecyst (gon'e-sist), n. [Gr. γονή, seed, + κύστις, bag (cyst).] Same as seminal vesicle (which see, under vesicle).

gonecystitis (gon e-sis-ti'tis), n. [NL., as gonecyst +-itis.] Inflammation of the vesiculæ seminales.

gong-drum (gong'drum), n. A bass drum made unusually thin or shallow, like a very large tambourine, so as to economize space.
gong-piano (gong'pi-an'ō), n. A musical instrument, common in several countries in



reproductive organ, borne upon the game-tophyte, in distinction from the sporangium, which is borne upon the sporophyte.

gonidiferous (gō-ni-dif'e-rus), a. [NL. gonidi-um + L. -fer, \(\lambda\) ferre, bear.] Bearing gonidia. gonidiophyl, gonidiophyll (gō-nid'i-ō-fil), n. [NL. gonidium + Gr. φύλλον, leaf.] Same as sporophul 2

gonimoblast (gō-nim'ō-blast), n. [Gr. γόνιμος, productive, + βλαστός, a germ.] The filament which arises from the fertilized cell of some of the red algae. It bears the carpospores either directly or upon *gonimolobes (which see).

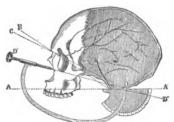
gonimolobe (gō-nim'ō-lōb), n. [Gr. $\gamma \delta \nu \mu \rho \sigma$, productive, $+ \lambda \sigma \beta \delta c$, a lobe.] The terminal lobe into which the gonimoblast of certain red algæ is divided. It penetrates the surrounding tissue of the plant, and from its terminal cells the carpospores are formed.

Annicel wania ($\sigma \delta r$) in \bar{c} , k is $m\bar{c}$ 'ni \bar{c} .

Gonioclymenia (gō'ni-ō-klī-mē'ni-ā), n. [NL., Gr., yawia, angle, + Clymenia, a genus of cephalopods.] A genus of Devonian ammonoid cephalopods or clymenias, with discoid shells and acute lateral lobes and saddles.

goniograph (gō'ni-ō-gráf), n. [Gr. γωνία, an angle, + γράφειν, write.] An instrument for describing angles.
gonioid (gō'ni-oid), a. [Gr. γωνιοειδής, angular, < γωνία, angle, + είδος, form.] See *clinohedral dral

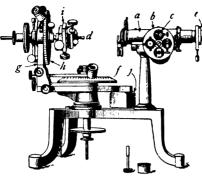
goniometer, n.—Mandibular goniometer, an in-strument for measuring the angle formed by the lower rim of the body of the jaw and the ascending ramus. —Octipital goniometer, in craniom, an instrument devised for measuring the angle between the level of the



Broca's Occipital Goniometer

Broca's Occipital Goniometer. Broca's Uccipital Goniometer. A'OBA, plane of foramen magnum: D'OD'', plane passing through the opisthion and the lower rims of the orbits: OC, line passing through the opisthion and nasion. EE, line passing through basion and nasion. The instrument is in position for measuring the occipital angle. (From Schmidt's "Anthropologische Methoden.")

foramen magnum and the line drawn from the medial point of the posterior part of the foramen magnum and the projection of the lower rim of the orbit on the medial plane.—Two-circle goniometer, an instrument for measuring the angles of crystals, provided with two graduated circles, one of which is horizontal, the other vertical. To the latter the crystal-holder and the devices for centering and adjusting are attached. With this form of goniometer the position of a face of a crystal can be determined relative to a reference-face by two angles in planes at right angles to each other, in a manner analogous to the use of the latitude and longitude to fix the position of a point on the earth's surface. Also called a theodolite-goniometer.—Three-circle goniometer, a modification of the two-circle or theodolite-goniometer. It



Two-circle Goniometer.

a, telescope: h, disk with four signals, any one of which (as.) can be brought by revolution into position. The signal tilluminated by lamp at side) is then, after reflection by small prise within tube, thrown upon a face of the crystal supported at d, and again reflected back to the observing eye-piece e. f, bonzonal graduated circle; g, support, carrying vertical graduated orde d, with centering- and adjusting-apparatus r. f, balancing-weight

has a third graduated circle and is arranged so that each zone of faces can be adjusted by two of the circles and measured by the third without removing the crystal.

measured by the third without removing the crystal.

goniometry, n. 2. That branch of trigonometry which treats of circular functions in general, and of their relations.

goniopholidid (gō'ni-ō-fol'i-did), n. One of the Goniopholididæ.

Goniophora (gō-ni-of'ō-rā), n. [Gr. γωία, angle, + φορος, ⟨φέρειν, bear.] A genus of prionodesmaceous pelecypods having the form of Modiola, but sharply angulated on the crescence-line. It occurs in Silurian and Devonion rooks Devonian rocks.

Goniophyllum (gō'ni-ō-fil'um), n. [NL., ζ Gr. γωνία, angle, + φίλλον, leaf.] A genus of



Goniophyllum pyramidale, from the Silurian of Godard: showing the operculum in place, twice the natural size. (From Nicholson and Lydekker's "Palæontology." After Lindstrom.)

extinct tetracorals, the corallum having the form of a four-sided pyramid and bearing an operculum composed of four plates. It is from the Silurian rocks.

Gonioplectrus (gō'ni-ō-plek'trus), n. [NL., ⟨Gr., νωνία, angle, +πληκτρον, a striker, spearpoint, spur.] A genus of small bass-like fishes of the family Serranidæ, found in the West Indies. G. hispanus, the known species, is called the Spanish flag, the body being banded alternately with red and golden stripes.

[Annionteris (gōni-on'te-ris), n. [NL. (Presi.

The veinlets are connivent in successive angles.] A genus of mostly pinnation polypodiaceous ferns, closely allow to Druonteris. It is distinguished in twicel series. pinnatifid polypodiaceous ferns, closely allied to *Dryopteris*. It is distinguished, in typical species by having the lowermost branches from adjacent velus connivent in pairs, the resulting veinlet excurrent within the arch of the next anterior pair, the sori punction normally non-industate and medial on the branches. The genus is mainly tropical: its systematic limits are ill defined. Two species, *G. reptans* and *G. tetragona* occur in peninsular Florida.

goniosymphyseal (gō "ni -ō -sim -fiz 'ē-al). a. [gonion + symphysis + -al.] In craniom., relating to the gonia and the symphysis of the lower jaw. Amer. Anthropologist, Jan.-March,

lower jaw. Amer. Anthropologist, Jan.-March, 1901, p. 39.

gonnardite (gon'ār-dīt), n. [Named after M. Gonnard, a mineralogist, of Lyons, France.] A zeolitic mineral allied to mesolite. It forms white, fibrous masses which fill cavities in the baselt of the Puy-de-Dôme region.
gonoblastid (gon-ō-blas'tid), n. [Gr. γόνος, generation, + βλαστός, germ, + -id².] In cœlenterates, a gonophore.
gonocace (go-nok'a-sē), n. [Gr. γόνος, knee, + κακή, bad condition.] Chronic disease of the knee-joint.

knee-joint.
gonochorism (gon-ō-kō'rizm), n. [Gr.)600.
gonochorism (gon-ō-kō'rizm). sex, + χωρισμός, separation.] The bisexual or directions condition. Arnold Lang (trans.) Comp. Anat., p. 24.

gonochorist (gon-ō-kō'rist), n. An organism

that exhibits gonochorism or the separation of the sexes. [Rare.] gonochoristic (gon'ō-kō-ris'tik), a. Pertaining to or characterized by gonochorism; diœ-

ing to or characterized by gonochorism; discious; with separate sexes.
gonococcal (gon-ō-kok'sl), a. [gonococc-us + -all.] Of or relating to gonococci.
gonococcic (gon-ō-kok'sik), a. [gonococc-us + -ic.] Same as *gonococcal,
gonococcid (gon-ō-kok'oid), a. [gonococc-us + -ic.] Paper bling approach

[gonococc-us

by division from the fertilized egg. Nat., July, 1903, p. 503.

gononephrotome (gon-ō-nef'rō-tōm), n. [Gr. γόνος, seed, + νεφρός, a kidney, + τομή, a section.] In embryol., that portion of the mesoderm which gives rise to the reproductive and excretory organs in the vertebrate embryo.

gonopalpon (gon-ō-pal'pon), n.; pl. gonopalpa (-pä). [Gr. γόνος, generation, + NL. palpon.] In siphonophorans, a palpon borne upon a gonostyle.

gonophorous (gō-nof'ō-rus), a. [gonophore +

gonophorous (go-nor'o-rus), a. [gonophore + -ous.] Bearing or producing gonophores. gonophore (gon'ō-pōr), n. [Gr. γόνος, generation, + πόρος, passage.] The reproductive orifice of the female, in nemathelminths. Parker and Haswell, Zoology, I. 276. gonosphere (gon'ō-sfēr), n. [Gr. γόνος, generation, + σφαίρα, a sphere.] Same as σöghere.

Gonostoma (gō-nos'tō-mā), n. [NL. (Rafinesque), erroneously for "Goniostoma, < Gr. γωνία, angle, + στόμα, mouth.] A genus of small lantern-fishes of the family Chauliodontidæ, found in the deep seas. G. denudatum is the common species.

the common species.

Gonostominæ (gon-os-tō-mī'nē), n. pl. [NL., Gonostoma + -inæ.] A subfamily of fishes typified by the genus Gonostoma.

gonostyle (gon'ō-stīl), n. [Gr. γόνος, generation, + στῦλος, a pillar.] A blastostyle or reproductive zoöid of a hydroid or siphonophore golour.

gonotome (gon'ō-tōm), n. [Gr. yôvoc, generation, $+ \tau o \mu \eta$, section.] In embryol., the portion of the segmented mesoderm which gives rise to the reproductive organs or gonads of the vertebrate embryo.

Whether we have metamerically repeated gonotomes, is as yet a disputed question.

J. S. Kingsley, Vert. Zool., p. 103.

gonotoxin (gon- $\bar{\phi}$ -tok'sin), n. [Gr. $\gamma \acute{\phi} v o c$, generation, $+ \tau o \xi (w \acute{\phi} v)$, poison, $+ -i n^2$.] A poisonous substance produced by the gonococcus. gonozoolid, n. 2. In Hydromedusæ, same as

medusoid or gonophore.

medusoid or gonophore.

gony, n., 2. (c) The name seems to have been applied originally to southern albatrosses of medium size, with white bodies and black wings, such as Diomedea chlororhyncha. It was thus used by 'deep-water' sailors about 1860, and its application to the black-footed albatross, D. nigripes, of the North Pacific is of later date.

gonyagra (gō-ni-ag'rā), n. [NL., \langle Gr. $\gamma \delta \nu \nu$, knee, $+ \dot{\alpha} \gamma \rho a$, a catching. Cf. podagra.] Gout in the knee-joint.

good-mother (gud'muTH'er), n. A mother-inlaw. [Scotch.] good-shoaling (gud'shō'ling), n. Naut., sound-

ings that change gradually; progressive depths of water.

at first go-off (at once, at the very outset).—2. In banking, the amount of loans falling due (and therefore 'going off' the amount in the books) in a certain period. Lord Aldenham N. E. D.

goondie (gön'di), n. [Australian (Wiradhuri) gúndai, a shelter. Compare *gunyah.] A native Australian hut; a gunyah. [Australian.]

There were a dozen "goondies" to be visited, and the inmates started to their work.

Rolf Boldrewood, Colonial Reformer, xvii.

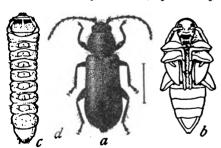
goorgoora (gör-gö'rä), n. [Punjab gurgura.] In Afghanistan, a large evergreen shrub or small tree, Reptonia buxifolia, of the family Sapotaceæ, bearing insipid, globular, drupaceous, fleshy fruits which are much esteemed

ceous, fleshy fruits which are much esteemed by the Afghans.
goose, n. 6. In keno, the globe from which the numbered balls are withdrawn.—Bay-goose, the common or Canada goose, Branta canadensis. [Local, U. S.]—Cape Barren goose, Cereopsis novæ-hollandiæ, a species once common on the uplands of New South Wales, but now much reduced in numbers.—Gray goose, the common European species, Anser cinereus. Also known as the graylag.—Gray-goose shaft, an arrow: arrows were formerly feathered with the feathers of

geese.—Knobbed goose, the male of the domesticated form of the Chinese goose, Cygnopsis cygnoides, which has an excrescence at the base of the bill, lacking in the wild bird.—Pygmy goose, any one of the goose-teals, or goslets, which belong to the genus Nettapus.—Roadgoose, local English name for the brant. Bernicla brenta. Also called clatter-goose and wilk-bob.—Shooting at the goose, in old archery, a shooting-match in which the mark was the head of a living goose, the body being buried to the neck in the earth.

goose-barnacle (gös'bär'na-kl), n. barnacle, as Lepas anatifera: in allusion to the fable that it gave origin to geese. See bar-

gonococcus (gon-s-to-set state). Improcesses with white gonococcus group of the gonococcus at the cause of the gonococcus at the gonococcus gonococcus (gonococcus gonococcus gonococc



a, beetle; ô, pupa; c, larva, dorsal view, all about three times natural size. (Chittenden, U. S. D. A.)

sizii, occurring in the northwestern United States and British Columbia. Also called

black gooseberry-borer.
gooseberry-gourd (gös'ber-i-görd'), n. The
bur or West Indian gherkin, Cucumis Anguria. See bur *gherkin.

gooseberry-louse (gös' ber-i-lous'), n. pl. gooseberry-lice (-līs'). A red-bug or harvest-bug, a larval Trombidium. [Great Britain.] gooseberry-midge (gös' ber-i-mij'), n. A ceci-domycid fly, Cecidomyia grossulariæ, which lays

its eggs beneath the skin of young gooseberries in which its larvæ feed.

gooseberry-mildew (gös'ber-i-mil'dū), n. A fungus disease of gooseberries which attacks the foliage and young fruit: due to Sphærotheca

gooseberry-season (gös'ber-i-sē'zn), n. The season when gooseberries are ripe.—Big-goose-

berry season, the time of year when news is scarce, and the newspapers have plenty of space to devote to the chronicling of wonderful, fictitious, or trifling matters.

gooseberry-shrub (gös'ber-i-shrub'), n. In the West Indies, same as Barbados gooseberry,

Pereskia Pereskia. See gooseberry.
gooseberry-tomato (gös' ber-i-tō-mā'tō), n.
The cape gooseberry, Physalis Peruviana.
See gooseberry.

gooseberry-tree (gös'ber-i-trē'), n. In the Bahamas, the cultivated Otaheite gooseberry, Phyllanthus distichus.—Little gooseberry-tree, in Queensland, a tree, Buchanania Muelleri, of the sumac family, bearing sweet, pulpy drupes about one-half of an inch long, somewhat resembling gooseberries.

goosebill, n. 2. Naut., an old-fashioned sail, in shape something like the bill of a goose or duck. It was used before the wind.

Goose-egg moth. See *moth¹.
goose-file (gös'fil), n. Single file; Indian file.

goose-ine (gos in), n. Single hie, intrain hie, goosefoot, n.—Maple-leaved goosefoot, Chenopodium hybridum, which has leaves lobed as in the maple: native in both Europe and America.—Nettle-leaved goosefoot, C. murale, the leaves of which somewhat resemble those of the nettle. It is an Old World plant, thoroughly naturalized as a weed in waste places in the United States.

goose-grass, n. 5. Same as *crowfoot-grass, 2, and wire-grass, 2.—6. The Texas millet, Panicum Texanum. See *millet.—7. The low speargrass, Poa annua.—8. The sea spear-grass, Puccinellia maritima.

goose-grease (gös'grēs), n. The melted fat of the goose: much used in domestic medicine as an ointment.

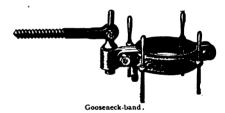
an ointmeut.

gooseland (gös'land), n. In California, flat land in the Sacramento valley which is partly flooded by rain in winter and then becomes the feeding-ground of large flocks of wild geese from the north. In large portions of the gooselands the soil is strongly alkaline.

goose-mouth (gös'mouth), n. A horse's mouth in which the upper lip overhangs the lower.

gooseneck, n. 4. In lumbering: (a) A wooden bar used to couple two logging-trucks. Also called rooster. (b) The point of draft on a logging-sled: it consists of a curved iron hook bolted to the roll. Also called draw-hook. (c) A curved iron hook driven into the bottom of a slide to check the speed of descending logs. a slide to check the speed of descending logs.

-Gooseneck-band, a band made in two parts, designed to be fitted round a mast and held in place by screw-bolts:



used to support a screw- or socket-gooseneck for the boom. Sockets are also provided for belaying-pins.

goose-necked (gös'nekt), p. a. Shaped like or supplied with a gooseneck.

goose-pen (gos'pen), n. 1. A pen or yard for geese.—2. In forestry, a large hole burned in a standing tree.

a standing tree.

goose-rump (gös'rump), n. A horse's rump or hind quarters which drop suddenly to the tail, giving the animal a somewhat angular appearance from behind. Also short-rump.

goose-rumped (gös'rumpt), p. a. Noting a defect in the conformation of a horse in which the hind quarters have an excessive slant downward and backward from the croup, and the tail is set low.

known species.

gore-bloodt (gör'blud), n. Clotted blo gore-bloodt (gör'blud), n. Clotted blo days, through bushes and thorns, which made and shoulders, which were naked, all of a gore-fish (gör'fish), n. Same as gart gorge, n. 12. In angling, a baitinter group.

goose-skin, n. 4. The pitted surface exhibited by copal, caused by contact with the sand in which it is embedded.

goose-step, n. 2. An exercise in military gymnastics in which the body is balanced on one foot while the other is swung forward and backward as if on the march, but without advancing, the object being to give the soldier an upright carriage in marching.—3. A marching step in which the feet are raised high above the ground, as when on review.

goose-teal (gös'tēl), n. See *teal¹.

goosetongue, n. 2. The lemon-balm, Melissa

officinalis

omenaus.

goose-wing (gös'wing), n. Naut.: (a) The clue of a squaresail that is kept hauled out by its sheet when the other clue is hauled up to the yard and furled. (b) A studdingsail.

goosy (gö'si), a. [goose + -y¹.] 1. Gooselike, especially in stupidity; foolish; silly.

Carlyle.—2. In a condition resembling that of the flesh of a plucked goose; hence, 'creepy': as, a goosy sensation.

G. O. P. An abbreviation of Grand Old Party, a rhetorical designation, by some Republicans, of the Republican party in the United States. gopher-apple (go'fèr-ap'l), n. Same as gopher-root: so called from the often edible fruit, which, however, is a drupe and not like an apple

gopher-plant (gö'fèr-plant), n. The caper-spurge, Euphorbia Lathyris. See spurge. For the origin of the name see mole-tree.
gopher-plum (gö'fèr-plum), n. 1. See plum¹.

—2. Same as cocoa-plum. See Chrysobalanus

and plum1.



Original in National Museum, Washington, D. C.

South African musical instrument, consisting of a bent piece of wood or bow with a single gut string attached, which is sounded by the player's breath directed through or against a quill that is fastened to one end of the bow. Sometimes a small gourd is attached to the bow as a resonator.

The gorah was formed by stretching a piece of the twisted entrails of a sheep along a thin hollow stick about three feet in length in the manner of a bow and string. At one end there was a piece of quill fixed into the stick, to which the mouth was applied, and the tones were produced by inspiration and respiration.

Encyc. Brit., XII. 311.

Encyc. Brit., XII. 311.

Several years ago, Mr. Henry Balfour published an important memoir on the musical bow, and in the current Journal of the Anthropological Institute (vol. xxxii. p. 156) he describes a superficially similar instrument, the goura, which Frobenius and Ankermann have confused with the musical bow proper. The goura is a bow-like instrument; one end of its string is fastened to a fiattened quill, the other end of which is fastened to the bow, and the string is thrown into vibration through the medium of the quill, which is caused to oscillate by being blown upon. Those musical bows which have no resonator are held to the mouth when playing in order to increase the sound.

Nature, Nov. 18, 1902, p. 37.

gorb (gôrb), n. [Connected with gorbel and other forms, gorbet, gorbre, gorbin, gorbling, based on the simple gor, in sense of an unfledged bird': see *gor.] 1. A greedy person; a glutton. [Prov. Scotch and Irish.]—2. An

unfledged bird. [Scotch.]
gorbel (gôr'bel), n. [Also gorbal: see *gorb.]
An unfledged bird. [Scotch.]

Children . . . often take the bare gorbals, or unfledged young, of this bird (the yeldring or yellow hammer), and suspend them by a thread tied round the neck.

Jamieson, Scottish Dict. (a. v. yeldring).

Gordiichthys (gor-di-ik'this), n. [NL., $\langle Gordius$, a genus of hairworms or hair-eels, + Gr. $i\chi\theta$ ic, fish.] A genus of small eels of the West Indies, of the family Moringuidæ. They are characterized by the extraordinary slenderness of the body and the great number of vertebre. G. irretitus is the known species.

gore-blood; (gor'blud), n. Clotted blood; gore.

Thus they travelled from morning till night several days, through bushes and thorns, which made their arms and shoulders, which were naked, all of a gore block Defoe, Captain Singleton, xviii.

gore-fish (gōr'fish), n. Same as garfish. gorge, n. 12. In angling, a baitintended to be swallowed by the fish to effect its capture: usually a minow in which a double-barbed leaded fish-hook is embedded.—13. A fishhook consisting of a straight or crescent-shaped piece of stone or bone sharpened at the ends and grooved or perforated in the center: used by primitive tribes.

I believe that, . . . starting with the crude fish-gorge, I can show, step by step, the complete sequence of the fish-hook, until it ends with the perfected hook of to-day.

B. Phillips, in Sport with Gun and Rod, p. 340.

Circle of the gorge. See *circle.
gorge-bait (gôrj'bāt), n. Same as *gorge, 12.
gorge-baiting (gôrj'bā"ting), n. In angling,

fishing with a gorge.

Naut.: (a) The gorge-circle (gorj'ser'kl), n. The smallest ept hauled out by circle formed by a plane perpendicular to the axis cutting a hyperboloid of revolution; the studdingsail.

circle generated by the shortest line from the generating line to the axis. See *circle of the

Carlyle.—2. In a condition resembling that of gorge-line (gôrj'in), n. The rear line of a forthe fiesh of a plucked goose; hence, 'creepy': tification through which the entrance is made.

Also gorge.
gorget, n. 6. In archæol., an object of stone or shell, flat, or convex on one side and concare on the other, and sometimes provided with perforations. Stone gorgets may have been used for a variety of purposes—as bracers, as supports for ornament, as badges, etc.

as badges, etc.
gorgio (gôr'ji-ō), n. [G. gadze, gatscho, Sp.
gacho, from a Romany word.] One who is not
a Gipsy; an outsider. [Gipsy lingo.] Borrow.
gorgonin (gôr'gō-nin), n. [Gorgonia + in².]
A dark-brown, horn-like, albuminoid compound comprising the axial skeleton of the coral Gorgonia Cavolinii.

and plum.

gor (gôr), n. [Origin unknown; cf. *gorb and *gorbel.] An unfiedged bird.
gora (gô'rä), n. [Also gorah, gorrah, goura, gurah; from a S. African native name.] A gurah; from a S. African native name.] A gormandizer, n. 2. A young, upright branch or sucker growing from the main stem or from an old branch of a cultivated tree: 80 called from the rapidity of its growth 80 called from the rapidity of called from the rapidity of its growth. Sesucker, 5 (b). Also called chupon. [West Indies.]

goroon-shell (gō-rön'shel), n. [Appar. an error for *godroon-shell.] A tritonoid shell, Lampusia femoralis.

gorse-kid (gôrs'kid), n. A bundle of gorse. N. E. D.

gosain (go-sin'), n. [Also gossein, goussain; (Hind. gusāin.] A Hindu priest, devotee, monk, or religious mendicant.
gosling, n. 3. The American pasque-flower.
Pulsatilla hirsutissima: so called from its dense, soft hairs.

gosling-grass (goz'ling-gras), n. Same ss

gosling-weed (goz'ling-wed), n. Same as goose-grass, 1.

gosmore (gos'môr), n. [Origin obscure; possibly a perversion of gossamer.] A plant of the genus Hypochæris, especially H. radicata, now naturalized in New Jersey and California See cat's-ear and Hypochæris.

gospodar (gos'pō-där), n. [Russ. gospodari. Bulg. gospodar, etc.] Same as hospodar.

Gosseletia (goz-let'i-a), n. [NL.] A genus of prionodesmaceous pelecypods, including trangular thick-shelled Devonian species belonging to the superfamily Pteriacea.

gossypein (go-sip'ē-in), n. [L. gossyp(ium)+
-e-+-in².] A phenol-like substance contained. in small quantity, in cotton-seed oil and cotton-seed meal. Also called gossypol.

gossypol (gos'i-pōl), n. [gossyp(ium) + -ol.]
Same as *gossypein.
gossypose (gos'i-pōs), n. [gossyp(ium) + -ose.] Same as *raffinose.

Goth, n. 3. A 'barbarian' in matters of literature or art.

To call a man a Goth [in the eighteenth century] coveyed a vague sense of superiority on the part of him who uttered it, and a general sense of disreputability dhim about whom it was uttered; and it was made the harder to endure and the more potent to crush because the man who applied it did not usually understand what was meant by it any more than did the man to whom? was applied.

Lounsbury, Studies in Chaucer, III. 250

Gothic. I. a. 5. Belonging to or characteristic of 'Goths' or 'barbarians' in matters of literature or art.

The constant use of the words Goth and Gothic [by Warton] demands perhaps a word of explanation. In the literature of the eighteenth century these epithets played about the same role that the word Philistine, plays of his begun to play, in this. They expressed a general dispprobation without putting the one who employed them under the necessity of substantiating what he meant is any precise definition. Lounsbury, Studies in Chaucer, III. 50

Gothic armor, fully developed plate-armor made in the latter part of the fifteenth century: a collector' term. This armor appears to have been made chiefly in luitheleading armorers being the Missaglia family in Milas Fine suits were also manufactured at Nurembers and elsewhere in Germany. It is the type usually represented in the works of the early Renaissance painted both in Italy and in Germany.

II. n.—Churchwarden Gothic a term ironically applied to additions made to English Gothic buildings during the eighteenth and early nineteenth centuries local authorities having only imperfect knowledge of the

What he did in this way laid itself open to the densite epithet applied to it of Churchwarden Gothic.

R. S. Clouston, in Burlington Mag., V. 46.

Gothicist (goth'i-sist), n. [Gothic + st.]. One who favors or affects the Gothic style. especially in architecture.



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Gothique (gō-tēk'), a. [F.] An epithet applied to a style of bookbinding in which the design is blind-tooled or blind-stumped upon the cover in medieval or monastic style. See tooling.

tooling.
gothite, n. Same as goethite.
Gothlandian (goth-lan'di-an), a. and n. In geol., noting the uppermost division of the Silurian system of Murchison, taking its name from the island of Gothland. Quantivalent therewith is the name Ordovician, applied to the lower division of the Silurian system. De Lapparent.
gotten (got'n), p. a. Obtained or acquired: usually with a qualifying adverb; won: as, ill-gotten gains; new-gotten territory; gotten battles.

Give me then health, Apollo; give Sound mind; on gotten goods to live Contented; and let song engage An honoured, not a base, old age. Gladstone, tr. of Horace, Odes, xxxl. 5.

Gladstone, tr. of Horace, Odes, XXI. b.
Gonda cheese. See *cheese1.
gouger, n. 5. A snow-plow formerly used on railroads in the western United States. It consisted of a strongly bullt box-car which carried a plow at its head set low enough to run under a drift and throwit over. Sci. Amer., Jan. 3, 1903, p. 8.
gouge-shell (gouj'shel), n. A gimlet-shaped shell, such as that of Vermetus; also, a kind of regards the government, its views, policy, or regulations; by the government.

of pinna.

goujat (gö-zhä'), n. [F.] A camp-follower; a soldier's servant; also, a blackguard.

Boys, or rather fags, [employed to carry the men's weapons or harness on the march] were called in French goujats, and are a curious feature in the armies of the time.

J. W. Fortescue, Hist. Brit. Army, I. ii. 1.

goulash, n. See *gulash.

goundou (gön'dö), n. [W. African.] A disease which attacks the natives on the west coast of Africa. It is marked by the growth of a smooth rounded swelling on either side of the bridge of the nose. Jour. Trop. Med., Feb. 16, 1903, p. 62.

goup, gowp (goup), v. i. [Perhaps imitative.]
To throb violently or painfully, as a boil be-

To throb violently or painfully, as a boil before it bursts or is lanced. [Scotch.] goura, n. See *gora. gourd, n., 1. (c) Same as calabazilla.—Bonnetgourd, n., 1. (c) Same as calabazilla.—Bonnetgourd, the fruit of species of Lufa. It is sometimes split lengthwise, turned inside out, and fashloned into a bonnet or cut into strips and used for trimming: whence the name.—Gourd family, the plant family Cucurbitaces.—Missouri gourd. Same as calabazilla. It extends east to the Missouri river.—Boarlet-fruited gourd, any one of several species of the genus Coccinia, especially C. Indica, a native of India and often cultivated. It is one of the commonest vegetables of the natives, the oblong scarlet fruit being eaten fresh when ripe and cooked in curries when green.—Wild gourd. (a) Same as calabazilla. (b) The bigroot of Oregon, Micrampelis Oregona.

gourdhead (gord'hed), n. Same as big-mouthed *buffalo.

gouty-stem (gou'ti-stem), n. In Queensland, the bottle-tree (which see). Both names refer to G. P. M. An abbreviation of Grand Passed the shape of the trunk. The tissues of the stem abound in a clear, jelly-like, mucilaginous substance resembling tragacanth, which is used as food by the natives in times of extreme drought.

An abbreviation (d) of grammar; (e) of grammar; (e) of

of extreme drought.
gouty-stool (gou'ti-stöl), n. In old English furniture, a stool designed by Hepplewhite for the use of persons afflicted with gout. It was fitted with mechanism for raising and lowering the foot.

Governess car. See *carl

Tr. An abbreviation (b) of Greece.
gr. An abbreviation (d) of grammar; (e) of great; (f) of gross.
Gr. An abbreviation (a) of Georgius Rex (King George); (b) of Grand Recorder.
grably v. II. intrans. To strike the heel of the front foot with the toe of the hind foot:
See *carl

Tr. An abbreviation (b) of Greece.
grab-service.
[Obsolete.] N. E. D.
grab-vessel (grab'ves'el), n. See *grab-service.
grab-vessel (grab'ves'el), n. See

Governess car. See *carl.
governing-motion (guv'er-ning-mo'shon), n.
The action on a spinning-mule of a certain mechanism for regulating the velocity of the spindles during the winding of the yarn on the cop. Also called strapping-motion. Nasmith, Cotton Spinning, p. 300.

Gothicity (go-this'i-ti), n. [Gothic + -ity.] government, n.—Charter government. See *charten.—Constitutive government, that phase of constitutive government, that phase of constitutional law and practice which relates to the manner in which officers of government are chosen.

which officers of government are chosen.

A modern government may have a written constitution which sets forth the plan of government. Other nations have a system of habitual practice, modified from time to time as circumstances seem to demand, which is observed as the common law of the government. I wish to use the term constitutive government for one of its departments coordinate with the others which I will set forth. I desire a term which will signify the manner in which the officers of the government in all its departments are selected, chosen, or appointed.

J. W. Powell, An. Rep. Bur. Amer. Ethnol., [1888-99, p. lxxxv.]

Government mant, an assigned servant; a convict. [Australia.]—Government stroke, a stroke that lacks vigor; a lazy way of doing work such as is supposed to characterize government employees. [Australia.]

Like the poor the unemployed are always with us, but grab bucket they have a penchant for public works in Melbourne, with a good daily pay and the government stroke combined.

Melbourne Argus, Feb. 22, 1897.

Which can pick

governmentalism (guv-ern-men'tal-izm), n. [governmental + -ism.] The theory that the

regards the government, its views, policy, or regulations; by the government.

government-house (guv'ern-ment-hous), n.

1. The building which contains the government offices.—2. The official residence of a governor.

governor.

governor.

governor.

n.—Differential governor, a governor which runs at a constant speed and is so constructed that when the engine runs at an improper speed the difference in the speeds produces an action on the regulating-valve which tends to bring the engine back to a correct rate of motion.—Emergency governor, a device which serves to check the speed of an engine when the usual regulating mechanism fails.—Fly-weight governor, a device for regulating the speed of a steam- or gas-engine in which a pair of weights, which fly out by centrifugal force as they are revolved, control the amount of steam or gas admitted to the cylinder.—Governor cut-off. See *cut-off.—In-ertia governor, an engine governor in which the inertia of a weight revolving with the shaft is utilized to open or close the admission-valve or change the point of cut-off whenever the speed of the engine changes.—Loaded governor, a governor to which a weight is attached for the purpose of increasing the strength of its action, thus giving it a prompter control of the engine, making it more sensitive to variations of load, and securing a closer approach to isochronism in the engine.

governor-rod (guv'er-nor-rod), n. The rod by

governor-rod (guv'er-nor-rod), n. The rod by which the motion of the governor is com-municated to the valve-gear of an engine.

Gov.-Gen. An abbreviation of governorgeneral.

gowan, n.—Ling-gowan, the mouse-ear hawkweed, Hieracium Pilosella: usually in the plural.—May-gowan. Same as euce-gowan.—Milk-gowan, the dandellon.—Watter-gowan. Same as meadou-gowan (which see, under gowan).—Witch-gowan. Same as milk-#govan.—Yellow gowan. (a) See yellow. (b) The dandellon.

**buffalo.

gourdworm, n. 2. One of the segments of a tapeworm: in allusion to its resemblance to the seed of a gourd; a cucurbitinus.

gout¹, n.—Abarticular gout, gouty inflammation of the stomach or other of the viscera, without involvement of the jointa.—Poor man's gout, gout occurring in consequence of lead-poisoning, exposure, insufficient nourishment, or the abuse of malt liquors, in laborers or others to whom luxury is unknown.—Tophaceous gout, chronic gout accompanied by deposits of sodium urate in the joints.

gout-fly (gout'fli), n. Same as corn-fly.

gouted d'eau (göt dō). [F., 'drop of water.']

A limpid rolled pebble of topaz found in Brazil, Ceylon, and New South Wales.

gouted de suif (göt de swēf). [F., 'drop of tallow.'] Tallow-drop: noting a style of potendary.

*converted de suif (göt de swef). [F., 'drop of tallow.'] Tallow-drop: noting a style of potendary.

*converted de suif (göt de swef). [F., 'drop of tallow.'] Tallow-drop: noting a style of potendary.

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*converted d'eau (göt de swef). [F., 'drop of tallow.'] Tallow-drop: noting a style of potendary.

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Patri, Glory be to the Father; (b) of Graduate in Pharmacy.

said of a horse.

grab¹, n., 3. (c) A form of dredger-bucket used for digging soft materials; a clam-shell bucket. (d) pl. Same as **kidding-tongs. (e) In forestry, the stem of an alder, or other small tree, which is bent over and plugged into a hole bored in a boom-stick, or secured in some other way, to hold a boom or logs inshore. [U. S.]

4. A children's game at cards, in which, when two or more cards of equal value are on the member of the family Gracilariidæ.

table together, the player who is quickest to recognize and grab them adds them to his own hand. N. E. D. grab-all (grab'âl), n. A catch-all; specifically, a kind of fishing-net with meshes not less than

21 inches in size, used in sea-fishing along the shores of Tasmania between sunrise

Put a graball down where you will in "bell-rope" kelp, more aliver trumpeter will get in than any other fish.

E. O. Cotton, in Evidence before Roy. Com. on Fisheries of Tasmania, 1883, p. 82, quoted in E. E. Morris, Austral English.

grabbing (grab'ing), n. 1. The act of grasping or seizing.—2. A condition, seen principally in the horse, in which the hind foot strikes the heel of the fore foot in traveling.

(grab'buk'et), n. A bucket which can pick upitsownload: a self-loading bucket; a gob bler or clam-shell bucket. grab - crane (grab'krān), n. A portable crane or der-

crane or der-rick with which a grab or crab is used for winding in the

a, bucket: b, b wings in open position, or when bucket drops upon material to be lifted. Dotted lines show position of wings when closed and forming bottom of bucket, inclosing load.

hoisting-rope, there being no winding-drum on the crane.

graben (grä'ben), n. [G. graben, a ditch.] In geol., a trough-like area caused by the down-throw of a crustal fault-block.

The main valley occupied by Georgetown is a depressed fault-block or graben. Science, Feb. 6, 1903, p. 227.

graben-block (grä'bn-blok), n. [G. graben + E. block, n.] A depressed segment of the earth's crust bounded on all sides by faults.

The imagined intersecting faults of the "bysmalith" or of the submerged graben-block have been generally sought for in vain about those greatest of all granitic massite. R. A. Dady, in Amer. Jour. Sci., April, 1903, p. 270.

grab-hook, n. 2. A hook having a narrow throat, adapted to grasp any link of a chain.
grab-iron, n. 2. A grappling-iron used for recovering broken boring or well-drilling tools from a well.
grab-link (grab'lingk), n. Same as

*slip-grab grab-machine (grab'ma-shēn'), n. A digger or dredger which uses a grab or clam-shell

bucket grabouche (gra-bösh'), n. [Origin unknown.]
A card-game in which each player starts with an ace and builds up in sequence until he gets rid of twenty cards originally dealt to him. When one can go no further, another takes it up.

takes it up.

grab-rod (grab'rod), n. In ship-building, a rod or bar, fastened to a bulkhead or in the end of a hatchway, which may be grasped in the hand to steady the body when the vessel is rolling; also, a horizontal rod fastened to the side of a war vessel a few feet above the water-line in the vicinity of the gangway-ladders, into which boat-hooks are hooked when helding a hoot along ide the ladder. when holding a boat alongside the ladder.

grab-service (grab'ser'vis), n. Naut., vessels of two or more masts originally fitted out by the Bombay government to cruise against the pirates of the Malabar coast. Admiral Smyth. grab-skipper (grab'skip'er), n. In lumbering,

a short iron pry or hammer used to remove the skidding-tongs from a log. grab-snow (grab'sno), n. Naut., a two-masted vessel having a boom-mainsail and belonging

II. a. Of or belonging to the lepidopterous family Gracilariidæ.

graciosity (grā-si-os'i-ti), n. [In ME. graciousete, OF. gracieusete; later newly taken from L. gratiositas, < gratiosus, gracious.]
The quality of being gracious; a gracious act. Cartyle.

act. Carlyle.

grackle, n. 3. In angling, the name of an artificial fly used in bass-fishing.—Bronsed grackle, Quiscalus quiscula aëneus, a subspecies of the purple grackle, found in the northern and western United States, especially in the Mississippi valley. It is characterized by the bronze or brassy reflections of the plumage. grad! (grad), n. [A modern technical application of AS. grad, a step. (L. gradus, a step: see grade.] In petrog., in the quantitative system of classification (1902) (see *rock!), a division of igneous rocks lower than the subdivision of igneous rocks lower than the subrang. A grad is based on the proportion of minerals of the subordinate group of standard minerals, when they are present in notable amount, that is, when they are more than one seventh as much as the preponderant

grad (grad), n. A graduate. [College slang.] grad. An abbreviation of the Latin gradatim, by degrees.

gradate, v. t. 2. In chem., to bring (a solution) to a desired degree of concentration. [Rare.] gradate (grā'dāt), a. [L. gradatus (parallel to NL. graduatus, whence E. graduate, a.), < L. gradus, step, grade: see grade, n.] Arangadas N. ranged serially according to size, as the whorls of a gastropod shell.

These (five whorls) being uniformly vitreous, shining, smooth, gradate. Proc. Zool. Soc. London, 1901, II. 417. gradation, n. 7. In geol., the process of producing an even slope, by agencies of erosion and transportation, on which the supply and removal of rock-waste or detrital material are about balanced.—Gradation plain. See *plain!
grade!, n. 5. In trigon., in the centesimal system, the hundredth part of a right angle; also, the hundredth part of a quadrant.—6. A small difference between the brightness of two stars: difference between the brightness of two stars: substantially the same as a step: a term used by observers of variable stars. Astrophysical Jour., Dec., 1903, p. 377.—7. In philol., one of the positions or forms assumed by a vowel or root in a series of phonetic changes caused primarily by change of stress and other factors, as the vowels in English sing, sang, sung, ride, rode, ridden, etc., Latin capio, cepi, -cipio, etc., Greek $\sqrt{\lambda \iota \pi}$, $\sqrt{\lambda \iota \pi}$, $\sqrt{\lambda o \iota \pi}$, leave, $\sqrt{\tau \iota \mu}$, $\sqrt{\tau \mu \mu}$, $\sqrt{\tau \iota \mu}$, $\sqrt{\tau \iota \mu}$, out, etc.—Grade of repose, in milred construcrode, ridden, etc., Latin capio, cepi, -cipio, etc., Greek \$\sqrt{\lambda}\text{Letn}\$, \$\sqrt{\lambda}\text{Lat}\$, an incline or slope in a track which is just sufficient to overcome the rolling friction of a train at rest and cause it to move downward.—Grade resistance. See *\sersistance.\$\text{Cercity}\$, and which the trains are unable to surmount unless assisted by the train momentum acquired by approaching the grade at full speed. See pusher *\sqrt{\sqrt{\gamma}\text{Cercity}}\$ and which the trains are unable to surmount unless assisted by the train momentum acquired by approaching the grade at full speed. See pusher *\sqrt{\gamma}\text{rade}\$, \$\text{train}\$ in the study of variations, the values obtained by measurements taken at different points in the scale of frequencies.—Pusher grade, in railroad construction, a grade too steep for a single engine hauling an ordinary train, and requiring the use of a pusher or assistant engine. It is used wherever the cost of construction and maintenance of longer and easier grades would be more expensive than the employment of pusher engines upon a shorter grade. See *\sqrt{\gamma}\text{pusher}\$, 4.—Ruling grade, in railroad construction, a grade on any given road or division which, by reason of its grade resistance and sometimes also of its curve resistance, ests the limit to the train service; the most difficult grade the locomotives with a fixed number of cars can overcome without the aid of a pusher. In order of grade resistance it is next to a pusher grade. See grade *\sqrt{\gamma}\text{resistance}\$, curve *\sqrt{\gamma}\text{resistance}\$, and pusher aronder of grade resistance it is next to a pusher grade. See grade *\sqrt{\gamma}

build up or wear down its course. See *regimen. grade¹, v. I. trans. 4. In phys. geog., to develop by eroding or filling (degrading or aggrading) into an even slope on which an eroding and transporting agent (such as a stream) will not actively build up or wear down its course.—5. In philol., to alter or be altered by gradation or ablaut. Skeat, Prin. Eng. Etymol.,

p. 170.

II. intrans. To prove to be of a certain grade or quality.

In Nelson County [North Dakota] ... some of it [the wheat] is frosted, that of others grading No. 1 hard and No. 2 Northern. ... In Pierce County ... they have had no frost and the wheat is grading nearly all No. 1 hard.

N. Y. Tribune, Oct. 30, 1891, p. 7.

grade-bred (grād'bred), a. Noting cattle, sheep, or hogs bred by mating a pure-blooded animal with one of no pedigree. See gradel, 4. graded (grā'ded), p. a. 1. Arranged in series of grades; existing in a series of grades: as,

graded schools; graded forms.—2. Reduced to a (specified) grade; specifically, in phys. geog., possessing such a slope or form that the agencies of erosion and transportation which act upon it are essentially occupied in carrying forward the detritus which they receive: said

of stream-courses, hillsides, beaches, etc.— **Graded plain.** See *plain!. **grade-peg** (grād'peg), n. A small stake or peg
driven into the ground to serve as a point
of reference for heights or elevations. F.

A. King, Irrig. and Drainage, p. 476.

grade-post (grad post), n. 1. A stake set upon a right of way to indicate the grade to which the proposed road must be made to conform. -2. A guide-post placed beside a railway-track to indicate a change in the grade of the

gradient, n. 3. In math., a rational integral homogeneous and isobaric function. Sylvester. 4. In geom., slope.

If from any point P on the curve, we draw the tangent-line, to the right, the *gradient* is the tangent of the angle which this line makes with the positive direction of the axis of x.

If from any point P on the curve, we draw the tangent line, to the right, the practient is the tangent of the angle which this line makes with the positive direction of the axis of x.

Adiabatic gradient. See vertical *gradient.*—Anticyclonal gradient. See *anticyclonal.*—Barometric gradient, in meteor. the rate of change of barometric pressure with distance; specifically, the rate of change of pressure along the earth's surface. According to international agreement, the gradient is expressed in millimeters, or in inches, per unit of horizontal distance, namely, one degree of the great circle, or 60 nautical miles. Unless the contrary is specified, the gradient is measured on the daily map perpendicular to the isobars at any point. —Gritical barometrical gradient, the gradient that would be maintained under the influence of a steady wind or a steady system of winds.—Cyclonal gradient the barometric gradient directed toward the center of a cyclone.—Electric gradient, the rate at which the electric potential varies. The great variations of horizontal gradient become explicable by the determination of the vertical gradient in the atmosphere. A spherical cumulus cloud of one kilometer radius, with its center three kilometers from the earth's surface, will, by its own charge, by induction cause a decrease of potential toward the earth's surface of about 11,000 volts per meter of altitude.—Forrel's gradient formula, the analytical expression of the relation between barometric gradient and attending winds. This formula was first deduced and published by Ferrel in 1868.—Gradient of refraction, the rather sudden change in the vertical temperature gradient that occurs at considerable altitudes, such as 10,000 feet, in the atmosphere, corresponding to the abrupt change in gradient, the gradient of pressure at sea-level due to differences of density in the atmosphere or to general or local disturbances, tides, etc., in consequence of which a general movement of air is set up, producing the large observed barometric gradien

gradometer (grā-dom'e-ter), n. [L. gradus, step, + Gr. μέτρον, measure.] An instrument for measuring the amount of slope in any

graduated (grad'ū-ā-ted), p. a. Specifically, in ornith., having the tail moderately pointed, the tail-feathers regularly decreasing in length from the center pair outward.

 graf_{t} n. and v. t. A simplified spelling of graff. graf, n. and v. t. A simplified spelling of graff.

graft², n.—Animal graft, a graft made with bone or
other tissue removed from one of the lower animals.—
Autoplastic graft, a graft made with skin or other tissue
taken from another part of the subjects own body.—
Heteroplastic graft, a graft made with skin or other
tissue taken from another individual.—Sponge graft, a
very small piece of aseptic sponge applied to agranulating
surface to serve as a center for the formation of new epithelium.—Thiersch's graft, a graft made with a piece
of skin of appreciable size to which a certain thickness of
the subcutaneous tissue is attached.

graft³ (graft), n. [ME. *graft, AS. *græft (not recorded) = Icel. gröftr (gen. graftar), digging, (AS. grafan, Icel. grafa, dig: see grave¹, v.] 1. The depth of a spade in digging; the amount of earth turned up in one turn of the spade. Markham.

The . . . relics . . . were discovered in 1827, . . at a depth of about a 'spade's-graft' beneath the surface.

Proc. Soc. of Antiquaries, March 7, 1844, p. 30. 2. A narrow crescent-shaped spade, used in cutting drains. Eng. Dial. Dict.

graft⁴ (graft), n. [Prob. a generalized use of graft⁸, digging. Compare the figurative use of diggings for a location or region where work is carried on.] 1. Work; labor. [Prov. Eng.]

'Well, I've got some graft to do now.' Often heard in and about Sheffield.

d about Sheffield.
S. O. Addy, Gloss. of Words Used in the Neighborhood [of Sheffield, 1888-90, Sup., p. 25.

[of Sheffield, 1888-90, Sup., p. 25.

The story ["The Autobiography of a Thief"] has been told in the thief's own words. But this feature is not without interest to the student of philology. For example, in Australia the slang word for work of every sort and kind, from that of the head of a State to that of a crossing-sweeper, is "graft." All sorts and conditions of people use the word in this connexion.

Athenseum, April 30, 1904, p. 560.

The roadster proper is distinguished from the tramp by having a 'graft,' or in other words a visible means of support.

Pop. Sci. Jour., IV. 255 (1896). N. E. D.

graft4 (graft), v. i. [graft4, n.] Towork. [Prov. Eng.]

Graft, to work; "where are you grafting!" i. e., where do you live or work? Hotten, Slang. Dict. (1869), p. 146.

To graft . . . (2) to work, but the work in this case was stealing, i. e., picking pockets. Grafting is also used in the sense of helping another to steal.

Farmer, Americanisms—Old and New (1889), p. 273.

graft⁵ (graft), n. [An extension of graft⁴, n., 2. Compare the like development of job, 'a piece of work,' to job, 'a piece of corruption.']

1. Dishonest gain acquired by private or secret practices or corrupt agreement or connivance, especially in positions of trust, as by offering or accepting bribes (directly or in the veiled form of commissions, fees, gifts, or philanthropic contributions), or by promising or using, directly or indirectly, one's official influence or power to assist or protect wrong. influence or power to assist or protect wrong-doing, or by levying blackmail—all in a pri-vate way and often disguised so as to seem the vate way and orien disguised so as to seem the customary and proper course of business. The word graft, with its derivates, came suddenly into extensive use in the political and journalistic language of the United States about 1901, as a new term more convenient in some respects than the equivalent terms bribery, corruption, dishonesty, blackmail. 'boodling,' all of which it connotes, and of which it is a succept synonym. [Colloq. or slang.]

The World of Graft Legich Flower (Math.

The World of Graft. Josiah Flynt (title of a book, [1901).

2. A business, process, place of concourse, or office, in or at which dishonest gain, by corruption or direct thieving, may be acquired. [Colloq. or slang.]

graft's (graft), v. i. To engage in graft; live by graft. See *graft's, n., and compare quotation from Farmer under *graft*, v. i. [Colloq. or slang.]

I'd like to see this town run by thieves once. Course they'd graft—couldn't help it, but not any more in the police do.

Josiah Plynt, in McClure's Mag., April, 1901, p. 572.

graftage (graf'tāj), n. [graft² + -age.] The process and the operation of grafting, or the state or condition of being grafted: a comprehensive term comprising the act of grafting and all the questions of science, practice, and description that grow out of the operation.

L. H. Bailey.

L. H. Bauey.
grafter² (graft'ter), n. [graft⁵, v., + -er¹.] One
who 'grafts' (see *graft⁵, v.); one who takes
or makes 'graft' or dishonest private gain, especially in positions of trust, and in ways peculiarly secret and corrupt.

euliarly secret and corrupt.

When the purchasing agent of a corporation or a firm accepts a fee or a commission from the seller of goods to that corporation or firm he is a grafter.

Hartford Times, quoted in Boston Transcript, July 31, [1903.]

grafting¹, n. 3. Joining; splicing: specifically, splicing a rope by unlaying and relaying the strands of the ends to be joined, or, in knitting, adding one piece to another.—4. In becaulture, the substitution of eggs or larvæ in queen-cells for the original occupants.—Barkgrafting. Same as rind-grafting (which see, under grafting).

queen-cells for the original occupants.—Rark-grafting. Same as rind-grafting (which see, under grafting).
grafting2 (graf'ting), n. [graft5, v., + -ing1.]
The practice of taking or making 'graft'; the practice of stealing money or its equivalent, especially in positions of trust, in ways not easily detected or punishable. N. Y. Tribune, Oct 24, 1001 Oct. 24, 1901.

Everybody who has studied public life has been appalled at its corruption. There is a general belief that every State Legislature and the national Legislature are

given to "grafting." It is felt that they are actuated by other than pure motives. Why should public life be so debauched? I have come to the conclusion that it is only a reflection of private life. There is "grafting" everywhere.

W. T. Jerome, quoted in Boston Transcript (from Hartford [Times), July 31, 1903.
grafting-saw (graf'ting-sâ), n. A saw with a wide kerf and coarse teeth adapted for the

wide kerf and coarse teeth adapted for the sawing of green wood: used for cutting off shoots and making the groove for a graft. Graham flour. See *flour. grahamite², n. 2. See *meteorite. Grahamized, ppr. Grahamizing. [Graham (see def.) + -ize.] To treat, that is, to open (letters) or cause (letters) to be opened while they are passing through the post-office, as Sir James Graham, a British Home Secretary, was supposed to have done with the letters of Mazzini and his friends. [Rare.]

zini and his friends. [Rare.]

To grahamize.—On 14 June, 1840, Mr. T. Duncombe, M.P., presented a petition to the House of Commons from W. J. Linton, Gluseppe Mazzini, and others, complaining that their letters had been opened when passing through the Post Office. Sir James Graham, the them Home Secretary, acknowledged that he had given instructions for this being done, and incurred great obloquy in consequence; but it appeared subsequently that it had been done by the Foreign Secretary, Byron's "travelled thane, Athenian Aberdeen," at the instance of the Nespolitan Government and with the concurrence of the Cabinet.

N. and Q., 9th ser., May 18, 1901, p. 394.

Graian (grā'yan), a. [L. Graius, Greek, +-an.]

Pertaining to the Graii, or Greeks.

grain¹, n. 15. In the tobacco industry, a deposit of calcium oxalate, in scattered globules,

grain¹, n. 15. In the tobacco industry, a deposit of calcium oxalate, in scattered globules, often at the base of the hairs, formed upon tobacco-leaves in the process of curing and sweating.—16. The English name for the copper coin called grano at Malta.—False grain, in sugar-manu/. a new crop of small crystals of sugar formed when fresh syrup is introduced into the crystallzing-pan in order to increase the size of crystals which have already formed. Sadiler, Handbook of Indust. Chem, p. 132.—Fish-skin grain, in leather, a grain which resembles the skin of a fish.—Grain leaf-hopper. See **leaf-hopper.—Grains of paradise. (b) See **amoyong.—Grains of rice, in ceram. See rice-grain decoration, under ricel.—Jeweler's grain, one fourth of a carat, or about four fifths of a troy grain: same as diamond-grain (which see, under carat, 4). C. Hering, Conversion Tables, p. 59.

grain¹, v. t., 5. (b) To scrape, as with a slicker, on the grain side. C. T. Danis, Manuf. of Leather, p. 380.

grain-beetle (gran' be'tl), n. A

of Leather, p. 380.
grain-beetle (gran' bē'tl), n. A
beetle which breeds in stored
grain. Among these beetles are the flat
grain-beetle, Lemophleus peusillus, the
foreign grain-beetle, Cathartus advena, the
merchant grain-beetle, Silvanus mercator,
the red-necked grain-beetle, Cathartus
gemellatus, and the saw-toothed grainbeetle, Silvanus surinamensis.
grain-borer (oran' bor" er) n. An

beetle, Silvanus surinamensis.
grain-borer (gran' bor'er), n. An insect which bores into grain.—
Larger grain-borer, a bostrychid beetle, Dinoderus truncatus, of uncertain origin, but probably Central American, which bores into stored grain and edible tubers and the boxes in which they may be stored.
Grained nametive.

Grained negative. See *negative.
grainer¹, n. 5. In salt-making, a pan in which
granulated salt is formed by rapid crystallization under the action of solar heat.

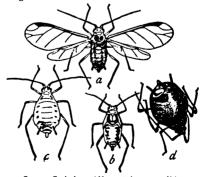
grain-gold (gran'gold), n. 1. Gold which develops a granular structure while being heated.

—2. Gold-dust.

velops a granular structure while being heated.

—2. Gold-dust.

graining-paper (grā'ning-pā'per), n. A transfer-paper printed in color direct from the natural surface of woods and copying the grain of the wood. When wet, it is used as a transfer to print the grain of the wood upon any surface as a reproduction of natural surface of the wood upon any surface as a reproduction of returns grain of the wood upon any surface as a reproduction of returns grain of the wood upon any surface as a reproduction of returns grain of the wood upon any surface as a reproduction of returns grain of the wood upon any surface as a reproduction of returns grain of the wood upon any surface as a reproduction of returns grain of the wood upon any surface as a reproduction of returns grain of the wood upon any surface as a reproduction of returns grain of the wood upon any surface as a reproduction of returns grain of the wood upon any surface as a reproduction of returns grain of the wood upon any surface as a reproduction of returns grain of the wood upon any surface as a reproduction of returns grain of the wood upon any surface as a reproduction of returns grain of the wood upon any surface as a reproduction of returns grain of the wood upon any surface as a reproduction of the wood upon any surface as a reproduction of the wood upon any surface as a reproduction of the wood upon any surface as a reproduction of the wood upon any surface as a reproduction of the wood upon any surface as a reproduction of the wood upon any surface as a reproduction of the wood upon any surface as a reproduction of the wood upon any surface as a reproduction of the wood upon any surface as a reproduction of the wood upon any surface as a reproduction of the wood upon any surface as a reproduction of the wood upon any surface as a reproduction of the wood upon any surface as a reproduction of the wood upon any surface as a reproduction of the wood upon any surface as a reproduction of the wood upon any surface as a reproduction of the wood upon an grain of the wood. When wet, it is used as a transfer to print the grain of the wood upon any surface as a reproduction of natural graining. It is a substitute for artificial graining.

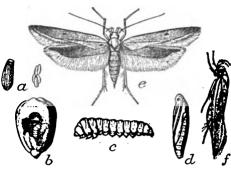


a, winged migrant; b, nymph of same; c, wingless parthenogenetic female; d, same, showing exit hole of parasite. All enlarged. (After Riley.)

541

grain-lac (grān'lak), n. Same as seed-lac, (which see, under lac²).
grain-louse (grān'lous), n.; pl. grain-lice (-līs).
A plant-louse common to both North America and Europe, and which attacks growing grain and grasses as well as other plants. Among these lice are the English grain-louse, Macrosiphun grannaria, the European grain-louse, Nacrosiphum cerealis. See cut in previous column.

grain-moth, n.—Angoumois grain-moth, a moth, Sitotroga cereatella, the larva of which infests stored grain. It is now a cosmopolitan species, but is supposed



Angoumois Grain-moth (Sitotroga cerealella).

a, egg and egg mass; b, larva in grain of corn; c, larva; d, pupa; e, f, moth. About two and a half times natural size. (Chittenden, U. S. D. A.)

to have been introduced originally into the United States from the province in France (Angoumois) from which its popular name is derived. Also called fly-weevil.

grain-process (grain pros es), n. In photog., a process of photomechanical printing in which

the proof is given a granulated appearance. See grained *negative.

See grained *negative.
grain-sick (gran'sik), n. Impaction or overdistention of the rumen or first stomach of the
ox due to eating excessive quantities of food.
Also called grain-sickness and plenalvia.
grain-split (gran'split), n. In leather-manuf.,
the outer split, which has the grain on it, as
distinguished from the flesh-split. C. T.
Davis, Manuf. of Leather, p. 188.
grain-tester (gran'tes"ter), n. A small weighing-scale adapted to ascertaining the number
of pounds in a bushel of any given kind of

of pounds in a bushel of any given kind of grain. A small quantity of the grain is weighed on the scales and the scale-weight indicates on the beam the exact weight of a bushel of that particular kind of grain.

grain-trier (grān ' trī " er), n. A contrivance for sampling grain. See the extract.

for sampling grain. See the extract.

Cereals and other large seeds are sampled with a grain trier. This consists of two hollow cylinders of metal, one inside of the other, about 1 meter long and 12 mm. in diameter. They are pointed at the bottom and provided with a handle at the upper end. A corresponding series of oblong openings extends at regular intervals along one side of both cylinders, which may be turned at will so as to open or close the holes. The sampler, with the holes open, is thrust into the top of a bag of grain for its entire length. When filled with seeds the inner cylinder is turned, so as to close the holes, and the sampler removed.

Yearbook U. S. Dept. Agr., 1894, p. 406.

grain-whisky (gran' hwis' ki), n. Whisky made principally from raw barley, with only a small proportion of malted barley to assist the change of starch into sugar. The bulk of

ing birds; gralline.
gram², n.—Gram-centigrade heat-unit. See *heat-unit.—Gram atom. See *gram-atom.

unit.—Gram atom. See *gram-atom.
gram3, n.—Black gram, a black-seeded variety of the green gram, Phaseolus Mungo.—Red gram, the cowpea, Vigna Sinensis. See Vigna and cow-pea, under pea1.—Turkish gram, a dwarf East Indian bean, Phaseolus aconitifolius. Called moth in India.—White gram, the soy-bean, Soia Soja. See soy, 2, and sahuca beans, under bean1.

gram⁴ (gram), n. [Gr. γραμμή, a line, < γράφειν, draw, write: see gram².] In kinematics, the curve described by a point of a link-motion.

The point of a link-motion which describes any curve is called a graph, the curve being called a gram.

A. B. Kempe, How to Draw a Straight Line, p. 6.

grama (grä'më), n. [See grama-grass.] A name for various grasses: always used with a qualifying word.—Black grama. (a) In New Mexico, Hilaria mutica, a perennial grass with running rootstocks which forms dense patches on hillsides. It makes excellent pasturage when abundant, and is gathered for hay by uprooting with a hoe. Also called black bunch-grass. (b) The bristly mesquit, Bouteloua hirsuta,

Grammatophylium

and the woolly-foot, E. eriopoda. (c) One of the blow-out grasses, Muhienbergia pungens. See *blow-out. Also called grama china.—Blue grama, the common gramagrass, Bouteloua oligostachya, which ranges from Wisconsin to California and from Texas and Mexico to Manitoba and Alberta. It is one of the best grazing grasses, withstanding the trampling of stock and curing in the turf. In the eastern Rocky Mountain region it serves for pasture all winter.—Crowfoot grama. Same as blue *grama.—Grama china. See black *grama (c).—Jointed grama. Same as *side-oats.—Low grama. See eia-weeks *grama.—One-flowered grama, a slender species, Bouteloua unifora, of southwestern Texas. It bears numerous one-flowered spikes near together along the axis.—Bide-oats grama. Same as *side-oats.—Six-weeks grama, Bouteloua polystachya, a slender much-branched annual grass, which ranges from Utah to Texas and southern California. It occurs only in scattered tutts and is seldom more than 6 inches high. Also called low grama.—Tall grama. Same as *side-oats.—Texas grama. Same as *seed-*meaquit.—White grama. Same as beed-*meaquit.—White grama. Same as beed-*meaquit.—White grama. Same as beed-*meaquit.—White grama. Same as the seed-*meaquit.—White grama. Same as ced-*meaquit.—White grama. Same as ced-*meaquit.—White grama. Same as ced-*meaguit.—White grama. Same as meaguit.—White grama. Same as ced-*meaguit.—White grama same as side-oats.—Texas grama. Same as *ced-*meaguit.—White grama. Same as the college grama. Same as the college grama is feed, but will not bear trampling in rich soil, however, it affords hay. (b) S

One gram-atom of radium gives off per hour an amount of heat comparable with the heat produced by the combustion of a gram-atom of hydrogen.

Jour. Franklin Inst., Nov., 1903, p. 329.

gram-calory (gram'kal'ō-ri), n. The quantity of heat necessary to raise one gram of water from 0° to 1° C.; the thousandth of a greater

gramenite (gram'e-nīt), n. Same as grami-

gram-equivalent (gram'ē-kwiv'a-lent), n.
That weight of an element or compound which
is equivalent to one gram of hydrogen; that quantity of an element or compound whose weight in grams is numerically equal to its equivalent weight.

graminicolous (gram-i-nik'ō-lus), a. [L. gram-en (gramin-), grass, + colere, inhabit.] Living upon grasses: said of fungi and other para-

*graminiferous (gram-i-nif'e-rus), a. [NL. *graminifer, < L. gramen (gramin-), grass, + ferre, bear, +-ous.] Grass-producing; grass-bearing: as, the graminiferous plains of South America. Mrs. Somerville, Connect. Phys. Sci.,

graminin (gram'in-in), n. A carbohydrate, $(C_6H_{10}O_5)_6H_2O$, found in the roots of Trisetum alpestre and other plants. It melts at 209° C. graminous (gram'i-nus), a. [L. graminosus, grassy, $\langle gramen\ (gramin-),\ grass.$] Grassy; covered with grass; also, erroneously, grass-like, graminosus,

like; gramineous.
gram-ion (gram'i"on), n. In phys. chem., a
quantity of an ion whose weight in grams is
numerically equal to the atomic weight of the
ion, or, in the case of a complex ion, to the sum of the atomic weights of the atoms of the ion.

One gram-ion of chlorine signifies 35.45 grams of chlorine in the ionic condition (CI); a gram-ion of (SO₄) weighs 96 grams (96 being the sum of the atomic weights).

Arrhenius (trans.), Text-book of Electrochem., p. 9.

Gramma (gram'ä), n. [NL., < Gr. γραμμή, a line: see *gram⁴.] A genus of very small basslike fishes, with the lateral line broken, belonging to the family Serranidæ: found in the coast waters of Cuba. G. loreto is the known species.

Grammaria (gra-mā'ri-ä), n. [NL. (Stimpson, 1854), Gr. γραμμή, a line (†).] The typical genus of the family Grammaridæ.

Grammaridæ (gra-mar'i-dē), n. pl. [NL., Grammaria + -idæ.] A family of sertularian hydroids in which the hydrocaulus consists of an axial tube which carries the hydrotheces and is surrounded by and inseparably coalesced with peripheral tubes without hydrothece. The hydrothece are adnate to the axial tube. The typical genus is Grammaria.

Grammatophyllum (gram a - tō - fil um), n. [NL. (Blume, 1829), Gr. γράμμα (γραμμα-), letter, + φίλλον, leaf. The allusion is apparto the irregular spots and markings on the leaves of the perianth.] A genus of plants of the family Orchidacca. They are large epiphytes, with long leafy stems, narrow leaves, and basal, long-stalked, loose racemes of large yellow or green flowers, spotted and mottled with purple or brown. There are 4 species, natives of the Malay region, often cultivated by orchid-fanciers. G. specionum, sometimes called the queen of orchida, is one of the largest and most showy plants of the family, its stems sometimes attaining a length of 6 feet. an axial tube which carries the hydrothecæ

Gramme ring. See *ring.

gram-meter (gram'me'ter), n. A gravitational unit of work, the work required to lift one gram one meter vertically against the earth's attractive force. It is one thousandth of a kilogram-meter, or about 98,000 ergs.

Grammicolepididæ (gram'i-kö-le-pid'i-dē), n.
pl. [NL., (Grammicolepis (-id-) + -idæ.] A
family of deep-water fishes, allied to the pomfrets or Bramidæ: distinguished by large scales and other characters. A single genus, Grammicolenis, is known.

mecueps, is known.

Grammicolepis (gram'i-kol'e-pis), n. [NL., $\langle Gr. \gamma \rho \alpha \mu \mu \kappa \delta c, \rangle$, linear ($\langle \gamma \rho \alpha \mu \mu \mu, \rangle$, line), $+ \lambda \epsilon \pi i c$, scale.] The typical genus of the family Grammicolepididæ, containing a single species, G. brachiusculus, a very rare fish of the deep waters of Cybic waters of Cuba.

Gramminæ.(gra-mī'nē), n. pl. [NL., < Gramma + -inæ.] A subfamily of the family Serranidæ, or bass-like fishes, typified by the genus

Grammistes (gra-mis'tēz), n. [NL., ⟨Gr. γραμμή, a line, +-istes.] A genus of bass-like fishes of the family Serranidæ, found in the South Seas. The species are dark brown in color, with stripes of golden yellow. G. sextineatus is common in the mid-Pacific.

frammistinæ (gram-is-tī'nē), n. pl. A sub-family of widely distributed serranoid fishes. gram-molecular (gram'mō-lek'ū-lār), a. Pertaining to or containing a gram-molecule. Physical Review, March, 1904, p. 155. gram-molecule (gram'mol'e-kūl), n. A weight of a substance such that the number of grams to loss is sound to its molecular resistance.

taken is equal to its molecular weight or to the sum of the combining weights of the elements of which it is made up. One grammolecule of water, for example, is 18 grams $(H_2O=1+1+16=18)$.

Grammysia (gra-mis'i-ä), n. [NL., said to be (irreg.) $\langle Gr. \gamma \rho \acute{a}\mu \mu a$, a letter, $+ \mu \dot{\nu} c$, a muscle. If so the right form would be *Grammatomya.] A genus of prionodesmaceous pelecypods, typical of the family Grammysidæ, with large oval integropallial valves and very simple, wholly edentulous hinge. It is of Devonian

Gram-negative (gram'neg'a-tiv), a. Negative (that is, resistant) to Gram's stain. See ≠stain.

Gram-positive (gram'poz'i-tiv), a. Positive (that is, receptive) to Gram's stain. grampus, n.—To blow the grampus. See *blow1,

Gram's method, stain. See Gram's *method,

granadino (grä-nä-dē'nō), n. [Colonial Sp., Granada, (New) Grenada.] A silver coin of Venezuela (the republic of New Grenada), of the value of 8 reals.

granary-beetle (gran'a-ri-bē'tl), n. Same as *grain-beetle (which see).
granary-weevil (gran'a-ri-wē'vl), n. Same

as grain-weevil.

granatine (gran'a-tin), n. [(pome)granate +
-ine².] A colorless alkaloid found in the bark
of pomegranate root.

granatoline (gran-a-tō'lin), n. [L. granatus, grained, +-ol+-ine².] An alkaloid, C₈H₁₄ OH.NH, obtained by the oxidation of n-methylgranatoline. It crystallizes in prisms which melt at 134° C.

Granby token. See *token. grand. I. a. [In some of the following phrases See *token.

grand. I. a. [In some of the following phrases grand is French, but often treated as the English word.]—Grand feu [F., 'great fire'], the highest temperature in the porcelain kin, which' by some is supposed to be about 4,717 F. Also called sharp fire, fierce fire, etc.—Grand guard, the guard detailed for the outpost duty of an army in the field. Agrand guard is usually furnished by each brigade.—Grand jeu, in the harmonium, a stop which makes the full power of the instrument available.—Grand misère (gran me-zār'), in boston, the loss of every trick, the hand being played as it was originally dealt, without discarding. Amer. Hoyle, p. 244.—Grand misère ouverte, in boston, the loss of every trick, the cards being exposed on the table: sometimes called a spread.—Grand ouvert, in skat, a grand played with the cards exposed on the table but not liable to be called. See *kskat.—Grand tourné, in skat, if the card shown for a tourné is a jack, the player may change his bid to grand tourné, that is, to play without a trump. See *kskat.

II. n. 2. Any announcement to play without

a trump suit, in such games as skat, cayenne, etc.

Gucky grand, in skat, a bid to play a grando after having taken in both the skat cards. See **skat.

grandmaternal (grand'mā-ter'nal), a. Of, pertaining to, or befitting a grandmother. Biometrika, Nov., 1903, p. 99.
grandparental (grand'pā-ren'tal), a. Of, per-

taining to, derived from, or befitting a grandparent or grandparents: as, a grandparental inheritance.

Cases in which the taint was grandparental or farther removed still, 16. Lancet, April 18, 1903, p. 1081.

grandpa's-beard (grand'päz-bērd'), n. In Texas, a species of virgin's-bower, Clematis Drummondii: so named from the fruiting pan-icle made showy by the feathery tails of the fruit

fruit. grandrills (gran'drilz), n. pl. [Orig. grand drills, appar. a factory name.] A kind of coarse corset-jean, or cotton-drilling. granilite (gran'i-lit), n. [L. granum, grain, + Gr. $\lambda i \theta o c$, stone.] A name given by Kirwan to complex granitic rocks composed of more than three minerals. Kirwan, Elem. Min., I. 246. [Page 1]

than three minerals. Kirwan, Elem. Min., I. 346. [Rare.]

granit, n. A simplified spelling of granite.
granite, n. In the quantitative system of classification (1902), it is proposed to apply the term granite for field purposes to all phanerocrystalline rocks composed of quartz and feldspar of any kind, with mica, hornblende, or other ferromagnesian mineral, if present in subordinate amounts. See *rockl.—Alkali granite, in petroy., a granite rich in alkali feldspars, of which the dark constituent is also alkalie, as riebeckite, ægirite, etc. Similarly, certain syenites may be called alkali syenite.

Rosenbusch.—Binary granite. (a) Granite consisting of the two minerals quartz and feldspar, mica and other common allicates being absent: in this nearly obsolete sense granite is almost synonymous with hapitie. (b) A granite containing two micas: the granite proper of some authors.—Concretionary granite, orbicular granite.—Paris granite, an orbicular granite in which nodules or lumpy aggregates of the dark minerals, chiefly biotite, form the characteristic feature. The fancied resemblance of these nodules to prunes arranged throughout the rock is the basis of the name. Sometimes also called pudding-granite.

A nodular granite from Ontario has been described.

A nodular granite from Ontario has been described.

This differs from other orbicular granites in that there is no pronounced radial or concentric structure. The same is true of the "pudding" or "prune" granite of Vermont.

Amer. Geol., Sept., 1904, p. 139.

White granite, in ceram, a variety of hard white pot-tery of a bluish tint; a grade below semi-porcelain. It is more extensively produced in the United States than any other grade of crockery, being used principally for table and tollet services. Also called stone china and ironstone

granitization (gran'i-tī-zā'shon), n. [granite + -ize + -ation.] In geol., an extreme phase of metamorphism leading to the transformation of sediments into rock which resembles igneous granite.

granitize (gran'it-īz"), v. t.; pret. and pp. grangrantitize (gran 11-12'), v. t.; pret. and pp. gran-itized, ppr. granitizing. [granite + -ize.] In geol.: (a) To impregnate (a rock) with granitic material or minerals. Certain fissile schists are sup-posed to have been filled with thin seams and layers of granite magma, intruded in a molten condition, producing gneiss-like rocks. Other rocks are in some cases im-pregnated with minerals derived from bodies of molten granite through processes of contact metamorphism. (b) To change into granite; convert into granite. granitoidal (gran-i-toi'dal), a. Same as grani-

toid. granivore (gran'i-vor), n. [NL. granivorus, grain-eating: see granivorous.] Any animal, but more particularly a bird, that feeds upon

Our poultry are chiefly granivores.

Lancet, Aug. 22, 1908 (advt.). granjeno (grän-hā'nō), n. [Mex. Sp.] In the southwestern United States and in northern Mexico, a shrub, Momisia pullida, of the elm family, which bears small orange-colored or red berries having an acid pulp. The plant is suitable for hedges, and the fruit is edible, though not much esteemed by the natives.

grannom (gran'om), n. A British anglers'

grannom (gran'om), n. A British anglers' name for a caddis-fly, Brachycentrus subnubilis, or an imitation of it.
granny, n. 3. A nurse or midwife. [Southern

granny (gran'i), v. t.; pret. and pp. grannied, ppr. grannying. [granny, n.] To serve as a nurse or midwife.

She grannied yore mother when you was born.

R. McE. Stuart, In Simpkinsville, p. 85.

granny-bush (gran'i-bush), n. Either of two shrubs, Cordia Lima of the borage family, or Croton linearis of the spurge family; both are covered with an ashy-gray tomentum. [Bahama Is.]

II. n. 2. Any announcement to play without the two Sicilies, the hundredth part of a ducat, the two Sicilies, the hundredth part of a ducat, 2. A subsidiary coin of Naples and equal to eighty hundredths of a United States cent.

grano-alaskose (gran "oʻa-las'koz), n. [L. granum, grain, +-o, signifying megascopic, + alask-(ite)+-ose.] In petrog., in the quantitative sys-tem (see rock1), a granitic rock having quartz and alkalic feldspar in nearly equal proportions, the feldspars being nearly equally sodic and notassic.

granodiorite (gran-ō-di'ō-rit), n. [gran(ite) + diorite.] A phanerocrystalline rock intermediate in composition between granite and quartz-diorite: nearly the same as quartz-mon-Zonite. The feldspars which it contains are orthoclase and lime-sods feldspar in nearly equal amounts; quartz and subordinate amounts of mica, hornblende, or other ferromagnesian minerals also are present. Becker.

granoliparose (gran-ō-lip'a-rōs), n. [gran, granular, +-o-+liparose.] In petrog., in the quantitative system of classification (see *rock1), an igneous rock belonging to the sodipotassic subrang of the peralkalic rang of the quardofelic order of persalane, Class I, having a megascopic granular texture. The term is applicable to certain kinds of granites.

granolite (gran'ō-līt), n. [L. granum, a grain, + Gr. λίθος, stone.] An evenly granular igneous rock, in distinction from a porphyritic rock. Turner, 1900.

granolithic (gran-ō-lith'ik), a. [L. granum, grain, + Gr. λίθος, stone, + -ic.] Made of crushed stone, sand, and cement: noting a spe-[L. granum, cial form of concrete. When pavements or buildings are so made they are usually covered with a coating of neat cement.

granoplasma (gran-ō-plaz'mä), n. [NL., < L. granum, grain, + Gr. πλάσμα, anything formed.] Finely granular protoplasm.

Finely granular protoplasm.

granospherite (gran'ō-sfō-rit), n. [L. granum, grain, + spher(ule) + -ite².] In petrog., a spherulite composed of grains arranged radially or concentrically. Vogelsang, 1872.

granth (grunt), n. [Hind. granth, a knot, book, code, < Skt. grantha, a knot, composition, verse, book, text, < \(\forall granth, \times granth grant

Granular gland. See *granule-gland.—Granular hypothesis, the doctrine or opinion that the granules seen in protoplasm are the fundamental units of structure for all living things.

granularity, n. 2. In petrog., the magnitude of the grain of a rock: a factor in the texture. Granulated steel. See *steel1.

granulation, n.—Exuberant granulations, large succulent granulations which rise above the level of the skin surrounding an ulcer: also called proud flesh—Granulation tumor. Same as granuloma.

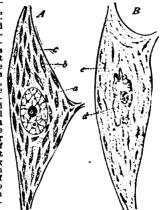
skin surrounding an ulcer: also called proud flesh.—
Granulation tumor. Same as granulona.

granule, n.—Aitman's granules. Same as Altman's
*bioblasts.—Babos-Ernst granules, small granules
which occur in the bodies of diphtheris bacilli and are
demonstrable by staining with a methylene-blue solution
of the composition: I gram of the dye, 20 cubic centimeters of absolute alcohol, 50 cubic centimeters of glacial
acetic acid, and water enough to make one liter. The
preparations are then counterstained with Bismarck
brown. The pseudo-diphtheris bacilli, when thus stained,
show no granules.—Central granule. See *central.
— Chromatic granules. See *chromatic.—Granules
of Nissl. See Nissl *granules.—Kefir granules. See
*kefir Metachromic granules. See *metachromic.
— Nousser's perinuclear granules, pseuliar structures
of granular appearance which are seen about the nuclei
of the various leucocytes of the blood on staining with a
certain dye (Neusser's modification of Ehrlich's triacid
stain): regarded by
some as artifacts.—
Nissl granules,
small deeply staining bodies found
by Nissl in the cytoplasm of nervecells. These bodies
are said to consist
c. Nissl substance

topissm of nervecells. These bodies
are said to consist
c. Nissl substance
and are sometimes
spin dle-shaped,
when they are
called Nissl spindles. Also called
Nissl's bodies and
tigroid.— Plastin
granule. See
*plastin.— Solar
granule, one of
the little bright
spots, resembling
rice-grains, with
which the face of
the sun appears to
be covered when
viewed telescopically.

granule-ball

granule-ball (gran'ūl-bâl), n. One of the roundish gran-ules which fill the body of the pupa of an in-



Nissl Granules.

Two motor cells from lumbar region of spinal cord of dog fixed in sublimate and stained in toluidin blue.

A, from the fresh dog: a, pale nucleus; b, dark Nissl spindles; c, bundles of nerre fibrils; B, from the fatigued dog: d, dark shriveled nucleus; ,, pale spindles. (After Mann.)

sect in its later stages of development, and which consist of leucocytes which have ab-

bodv

granule-gland (gran'ūl-gland), n. In various platyhelminths, one of the unicellular glands whose secretion, consisting of refringent granules, mixes with the spermatozoa. Parker and Haswell, Zoology, I. 255.

granulitic2 (gran-ū-lit'ik), a. [granule + -ite2 +-ic.] In petrog., having a granular texture made up of nearly equidimensional grains or crystals.

granulitize (gran'ū-li-tīz), v. t.; pret. and pp. granulitized, ppr. granulitizing. [granulite + -ize.] In petrog., to make granular, as by -ize.] In crushing.

granulize (gran'ū-līz), v. t.; pret. and pp. granulized, ppr. granulizing. To convert into granules, as a fine powder into a coarser one by wetting, sieving, then drying and resieving, preparatory to making compressed tablets. The product is termed a granulation.

granulo-adipose (gran'ū-lō-ad'i-pōs), a. Containing or consisting of granules and fatty substance: said of certain cells or tissues: same as granulo-fatty.

granulo-crystalline (gran'ū-lō-kris'ta-lin or -lin), a. 1. Containing or consisting of granules and crystals: said of certain cells or tissues.—2. In petrog., crystalline with nearly equidimensional grains.

granuloma, n .- Granuloma tropicum. Same as

granulo-pulpy (gran'ū-lō-pul'pi), a. Consisting of or containing granules and pulp: said of certain tissues or cells.

grape¹, n., 4. pl. (b) A specific affection of the heel of horses, accompanied by an offensive discharge and the formation of red, raw excrescharge and the formation of red, raw excrescences (grapes) on the surface. Also called varrucose dermatitis. (c) Tuberculosis of the serous membranes (pleura and peritoneum) in which conglomerate clusters of tubercles are found. Also called pearly disease.—Arroyo grape, the riverside grape, Vitis vulpina: so called in the western U.S.—Ashy grape. Same as downy *grape.

—Bear's-grape, See bearberry, I.—Bitter-rotofgrape.
—See ***bitter-rot.—Blue grape, Vitis bicolor, a high-climbing vine of the eastern United States, having the leaves bluish-glaucous, especially on the under surface, and the berries bluish-black with a bloom.—Chytridiose of grape. See **chytridiose.—Downy grape, Vitis cinerea, having downy or floccose pubescent leaves and young shoota, and small, pleasantly acid berries. It is found along streams from Nebraska to Texas, and also in Florida.—Gippsland grape, in Victoria, same as native **grape.—Grape family, the plant-family Vitaces.—Grape seed.**worm.—See **seed-worm.—Leaf-blight of grape.

See **ded-blight.—Macquarie Harbor grape, in Tasmania, a climbing shrub of the buckwheat family, Calacinum adpressum (Muchlenbeckia adpressa of Meisner), which bears small pluk flowers in panicled spikes, followed by currant-like subacid fruits which are used for tarts, puddings, and preserves. Also called Macquarie Harbor vine and, in Australia, native ivy.—Native grape, in Australia, an evergreen climber, Cissua hypoglauca, which bears black edible fruits the size of cherries. Called Gippsland grape in Victoria.—Oil of grapes. See **coll.—Oregon grape. See Berberis.—Peruvian wild grape.

Oregon grape. See Berberis.—Peruvian wild grape. The noot of this plant is the true radix pareira brows used in medicine. See pareira.—Port Jackson grape. Same as kangaroo-vine or kangaroo-grape. It is a tall woody climber of eastern Australia which bears globular black berries.—Possum-grape, the frost grape. See **scald1.—Sea_grape. (c) Same as salt-**xgrape.—Seal**egrape, the salvort, Salsola Kali.—Seald of grape. See **s cences (grapes) on the surface. Also called varrucose dermatitis. (c) Tuberculosis of the se-Also called

after the juice is expressed; the marc.

grape-caterpillar (grāp'kat'er-pil-ār), n. A Graphitic carbon. See activo in caterpillar which feeds on the leaves of the graphitite (graf'i-tit), n. [graphite + -ite².] In min., a name proposed for such speciments. grape-vine. — Social grape-caterpillar, the larva of an American pyromorphid moth, Harrisina Americana, which feeds gregariously on the leaves of the grape.

grape-curculio (grāp'ker-kū'li-ō), n. A small curculionid beetle, Craponius inæqualis, which lays its eggs on young grape-berries in which its larvæ feed. Same as grape-weevil (a) (which see, under weevil).
grape-eater (grap'ē'ter), n. Same as *fig-eater.

grape-essence (grap'es'ens), n. An artificial fruit-essence composed of chloroform, various ethers, tartaric acid, and other components: used as a flavoring agent.

sorbed fragments of the tissue of the larval grape-fleck (grap'flek), n. See *scald of grape

and grape-mildew.

grape-hopper (grap'hop'er), n. The grapevine leaf-hopper, Erythroneura vitis. Grape-leaf blight, gall-louse. See *blight,

grape-scale (grāp'skāl), n. A diaspine scale-insect, Aspidiotus uvæ, which feeds on grape-canes in the United States, Jamaica, and

parts of Europe.

parts of Europe.
grape-slug (grāp'slug), n. The larva of the grape-vine saw-fly.
grape-stone, n. 2. Same as botryolite.
Grape-trellis cup. See *cup.
grape-vine, n. 2. In wrestling, a lock in which the arm or leg is twined around that of the opponent.—Grape-vine sphis, Siphonophora viticola, an aphis destructive to the leaves and young shoots of the grape-vine in the middle and southern United States. Grape-vine apple-gall, bark-louse, filbert-gall, leaf-roller, root-borer, root-worm, saw-fly. See *apple-gall, etc.—Grape-vine graps. See vine *mesquit.—Green grape-vine sphinx.

grape-worm (grap'werm), n. Same as grape seed-worm (which see, under *seed-worm).

graph', n. 2. A curve as representing an equation or function.—3. A line drawn through a series of points whose position has been already determined.—4. A representa-tion by points on or in a lattice. Sylvester.— 5. The point of a link-motion which describes 5. The point of a link-motion which describes any curve. Kempe.—Essential graphs, a system of graphs for logical analysis of which the chief characteristic is that if two assertions are written at once on the sheet the effect is the assertion that one or the other is true.—Graph of an equation, the line obtained by making a diagrammatic representation of an equation with the aid of a system of coordinates; the geometric picture or map of an equation.—Graph of a function, the line plotted when a function is considered as the ordinate of its argument as abscissa.—Graph of the function f(x), the curve whose equation is y = f(x).

graph¹ (graf), v. I. trans. To draw a curve representing (a given equation or function).

II. intrans. To trace graphs.
graph² (graf), n. [Detached from compounds ending in -graph.] Any apparatus for duplicating drawings or writings by printing from a gelatinous surface. [Colloq.]

graphic, a. 7. Concerned with or using graphs. Graphic intergrowth, texture. See *texture.

Graphiola (gra-fi'ō-lä), n. [NL. (Poiteau, 1824), ζ Gr. γραφεία, writing, + dim. -ola. The leaves affected by it have the appearance of being written upon.] A genus of fungi of doubtful relationship, but usually referred to the *Ustilagnales*, having the spore-mass surrounded by a black outer and an inner thin peridium. The spores are produced upon lateral cells of the fertile hyphs. The species are few and occur as parasites on palm-leaves. *G. Phenicis* is a common species on *Phenix dactylifera* in hothouses.

graphiological (graf'i-ō-loj'i-kal), a. Relat-

graphiological (graf"i-ō-loj'i-kal), a. Relating or pertaining to graphiology.
graphitel, n.—Acheson graphite, graphite artificially made from coke or other amorphous carbon, by the Acheson process, in an electric furnace in the presence of a small quantity of silicon.—Artificial graphite, graphite produced artificially, en an industrial scale, by heating intensely in an electric furnace coke or some other form of amorphous carbon along with a small proportion of silicon or silicon carbide, this addition apparently being necessary to bring about the crystallization of the carbon.—Baraga graphite, the graphitic or carbonaceous schist produced in Baraga county, in the northern peninsula of Michigan.—Graphite black. See *black.
Graphitic acid, a bright yellow compound, C₁₁H₄O₅, obtained by the oxidation of Ceylon graphite with potassium chlorate and nitric acid. It crystallizes in lustrous needles which become incandescent and explode when heated. It is formed, in small quantity, by the electrolysis of mineral acids when the positive electrode is graphite.—Graphitic carbon. See *karbon.
graphitite (graf'i-tit), n. [graphite - ite².]

of graphite as do not intumesce on being moistened with concentrated nitric acid and then tened with concentrated metro and a strongly heated. This peculiarity is probably explained by the small, compact character of the crystals and is hence not essential. It is very doubtful whether graphite and graphitie really represent, as has been supposed, two distinct forms of carbon.

posed, two distinct forms of carbon.

raphitization (graf'i-tī-zā'shon), n. [graph-grapnel-hook (grap'nel-huk), n. Same as tike + -ation.]

1. Conversion of amorphous grapnel, 1. itize + -ation.] 1. Conversion of amorphous carbon or of the diamond into graphite by exposure to a very high temperature. See artificial *graphite. Electrochem. Industry, March, 1904, p. 108.—2. The operation of covering

the surface of an object with graphite. See *graphitize, 2.

In various grape-fly (grāp'flī), n. One of the fruit-flies, graphitize, 2.

In various grape-fly (grāp'flī), n. One of the fruit-flies, graphitize, (graf'i-tīz), v. t.; pret. and pp. lular glands

Drosophila ampelophila, which breeds in grape
ingent granpomace and also in preserved fruits and wine.

Parker and grape-fungus (grāp'fung'gus), n. One of the molds, Oidium Tuckeri, which attack grapeanule + -ite²

vines. Also called vine-mildew. See mildew, 1, the two other forms of carbon) by exposure to a very high temperature. Industrially the process is applied to amorphous carbon. See artificial *graphite. Electrochem. Industry, June, 1904, p. 237.—2. To cover (the surface of an object) with graphite or, in the case of organic substances, by heating them in absence of air until the outer surface is converted into graphite, as is done with the filaments of incandescent lamps.

graphitoid, a. II. n. A form of graphite, occurring in certain schists, supposed to be peculiar in its readier combustibility. This, however, is probably due to the minute size and purity of the scales.

and purity of the scales. **Graphium**² (graf'i-um), n. [NL. (Corda, 1837), \langle Gr. γραφείον, a painter's brush or pencil.] A genus of hyphomycetous fungi having the fertile hyphæ closely united into an elongate stipe-like fascicle and bearing at the summit simple hyaline conidia. Over 60 species have been described, occurring mostly on decaying was at the matter. vegetable matter

graphokinesthetic (graf'ō-kin-es-thet'ik), a. In psychol., pertaining to the sensations aroused by the movements of writing. Psychol.

Rev. Mon. Sup., xiv. 26.

Rev. Mon. Sup., xiv. 26.
graphologic (graf-ō-loj'ik), a. [graphology+
+-ic.] Of or pertaining to graphology.
graphomania (graf-ō-mā'ni-ā), n. [Gr. γραφή,
writing, + μανία, madness.] A morbid impulse to write or compose.
graphomaniac (graf-ō-mā'ni-ak), n. [graphomania + -ac.] One who is constantly writing,
either letters to friends or to the newspapers,
or stories and works of fiction, driven thereto or stories and works of fiction, driven thereto either by an exaggerated idea of the impor-tance of what he writes or by an insane im-

We have just been considering, in madmen, the substantial character of genius under the appearance of insanity. There is, however, a variety of these, which permits the appearance of genius and the substantial character of the average man; and this variety forms the link between madmen of genius, the sane, and the insane properly so called. These are what I call semi-insane persons or mattoids. . . The graphomaniac, representing the commonest variety, has true negative characteristics—that is to say, the features and cranial form are nearly always normal.

C. Lombroso (trans.)**, Man of Genius, p. 209.

graphon (graf'on), n. [graph(ite) + (carb)on.] In chem., a name given by Brodie to carbon in the form of graphite, which he assumed to represent a peculiar radical, capable of producing graphitic acid, while amorphous carbon and diamond do not yield a similar product.

graphostatical (graf-ō-stat'i-kal), a. [graph-(ic) + statical.] Pertaining to or using graphi-

cal statics.

Great care was taken by experts in making the most correct mechanical and graphostatical calculations and investigations in order to settle the exact numerical value in length of the greatest permissible deflections at different parts, points, and cross-sections of the bridge.

Sci. Amer. Sup., June 4, 1904, p. 23758.

graphotone (graf'ō-tōn), n. [Gr. γράφειν, write, + E. tone.] A photo-engraved plate in high relief, usually of zinc but sometimes of copper, prepared for printing with type on a type-printing press; also the print taken from a plate so made.

a plate so made.

The collotype process is worked universally, and is known by a variety of names; the Germans call it "Lichtdruck," the French "Phototypie," the Americans "Phototype," and we English have given it the titles of "Photoprint," "Heliotype," "Autotype," "Photophane," "Photomezzo-type," "Graphotone," etc.

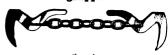
Jour. Soc. Arts, quoted in Sci. Amer. Sup., March 28, [1903, p. 22767.

graphotype, n. 2. A type-writer for embossing letters upon thin sheets of metal to form type for use in an addressing-machine.—3. A form of type-casting and -setting machine.

The Goodson graphotype machine... depends upon electricity for its successful operation. It is composed of two parts: a small table about the size of a type-writer desk, containing an ordinary typewriter, a perforating machine, and a dial similar to a clock; and a caster and setter.

Census Bulletin 216, June 28, 1902, p. 59.

grapple, n. 7. pl. (a) Small iron dogs, joined by a short chain, which are driven into logs near the end when skidding on mountains, so that several logs may be skidded by one



horse at the same time. Also called chain-grapples, coupling-grab. (b) See *skidding-

grapple-hook (grap'l-huk), n. Same as grap-

Grapta (grap'tä), n. [NL. (Kirby, 1837), < Gr. γραπτός, marked, painted, written, < γράφειν, mark, write. The reference is to the markings mark, write. The reference is to the markings on the under side of the hind wings, which resemble letters or punctuation-marks.] A genus of butterflies of the family Nymphalidæ, well represented in the United States by the comma butterfly, G. comma, the semicolon butterfly, G. interrogationis, G. j.-album, and others. Synonymous with Polygonia. Huebner, 1816

Graptolitoidea (grap'tō-li-toi'dō-a), n. pl. [NL., < graptolite + Gr. eloo, form.] An organic division including the graptolites, an ex-

tinet group of Hydrozoa.
graptoloid (grap'tō-loid), a. [graptol(ite) +
-oid.] Related to, characteristic of, or resem-

ding the graptolites.

Graptoloides (grap-tō-loi'dō-ā), n. pl. [NL. irreg. (*graptoli(thus), graptolite + Gr. είδος, form.] A suborder of the graptolites, comprising the graptolites proper, characterized by the symmetric structure of the rhabdosomes, the lack of differentiation of the thecæ, and the solid periderm. They appear at the end of Cambrian time, attain their first culmination in the middle Lower Silurian with axonolipous forms, and a second such period in the Upper Silurian with axonophorous forms. Their rapid development and variation at succeeding geological horizons and their wide horizontal distribution make them important index-fossils.

graptomancy (grap 'tō-man-si), n. [Gr. γραπτός, written, + μαντεία, divination.] Divination by handwriting.

by handwriting.

graptotheca (grap-tō-thē'kā), n.; pl. grapto-thecæ (-sē). [Gr. γραπτός, marked (see grapto-lite) + θήκη, a box.] One of the thecæ or zoöid receptacles of the graptolites.

grass, n. 7. In printing, temporary employment. [Eng.]—Aleppo grass. Same as Johnson *grass. Amgola grass. Panicum spectabile, a stout species somewhat resembling the barn-yard grass, introduced from Africa into the lowlands of Brazil. It is represented as a productive and nutritious fodder grass.—Aparejo-grass, Sporobolus utilis, a slender, wiry, much-branched species which grows in Mexico and adjacent parts of the United States, in swampy places along streams. The name refers to its use in stuffing the aparejo (which see).—Arotic grass. Same as rescue-grass.—Arrow-grass. (a) See arrow-grass. (b) The esparto, Stipa tenacissima.—Artificial grass, a leguminous plant grown for forage. (Great Britain.)

The term artificial grasses is usually applied to clovers

The term artificial grasses is usually applied to clovers nd their allies. Fream, Complete Grazier, p. 930.

The term artificial grasses is usually applied to clovers and their allies. Fream, Complete Grazier, p. 930.

Austin grass. Same as Texas *millet.—Barcoo grass, Isetiema Mitchellii, an excellent pasture grass of western and southern Australia, New South Wales, and Queensland: named from a river in the last-named colony.—Bear-grass. (a) See bear-grass. (b) See *bear-grass. (b) See *bear-grass. (c) In the northwesern United States, Xerophyllumtenax. Its very slender and tough leaves, 2 or 3 feet long, were used by the Indians in making water-tight baskets. This is the bear-grass of Lewis and Clark. Also called squaw-grass and squaw-lily, and, in Idaho, pine-lily. See Xerophyllum.—Bermuda grass. See grass. This grass produces seed freely in warm countries, but in the United States only at the extreme south. By the use of imported seed it is found practicable to set aside the laborious method of propagating by cuttings, provided the seed is sown in the cool and moist season. See St. Lucie's **grass.—Bhabur grass, Ischæmum angustifolium, an Indian grass which possesses valuable technical qualities similar to those of esparto. It forms the chief raw material for paper-making in India, and is also used for ropes, strings, and mats.—Blow-out grass. See **blow-out.—Bluejoint-grass.* See bluejoint-grass.

The common bluejoint-grass, Calamagrostis Canadensis, ranges across northern North America, extending south to North Carolina, New Mexico, and California. It inhabits moist meadows and, when abundant, is highly prized for hay. It succeeds well in cultivation. In the northern Rocky Mountains it is replaced by the subspecies acuminata, the mountain bluejoint-grass. The name (often simply bluejoint) extends to the other species of the genus, several of which, in Wyoming, etc., are also valuable for forage. Northern bluejoint, C. Langsdorfii (also called Langsdorffs red-bent and by stockmen purpletop), is highly prized where plentiful. The bluejoints are also called reed-grass. See pine-tyrass.—Bottom-grass. (a) See bottom

Crested dog's-tail grass. Same as dog's-tail grass (a) (which see, under grass). See also Cynocurus. This is, at least in Europe, a standard grass in nitutures for permanent pastents, ampais and and pasting shade. The ripendarity is not of the best used in the manufacture of Leghorn hats.—Crop-grass, the yard-grass or wire-grass, control of the pasting and the pasting shade. The ripendarity of the pasting of

the mat grass of Australia. See *mat-grass.—Redfield's grass. See *Redfieldia.—River-grass. Same as Texas *millet.—St. Augustine grass. See Stenotaphrus and saint!. This grass, widely distributed in South America and on the Pacific islands, grows along the Atlantic coast from Florida to South Carolina. It quickly covers sandy yards with a dense, carpet-like growth, where the usual lawn-grasses will not grow. From its extensive use in Charleston for this purpose it has the name Charleston lawn-grass. Also called mission-grass, shore-grass. In South America its creeping stems are employed as a disretic.—St. Lucie's grass, in Florida, a variety of the Bermuda grass, preferred to the ordinary plant for lawns as rooting less deeply and being less liable to invade neighboring fields.—St. Mary's grass. (a) Same as Johnom kyrass. (b) Same as guinea-grass.—Salem grass. The velvet grass. See Holcus.—Balt-marsh grass. Sportina stricts and S. patens. The latter is also called salt-meadow grass and fox-grass. Sometimes simply marsh-grass.—Schrader's grass, Schrader's brome-grass. Same as recue-grass.—Shore-grass. Same as soulder-keane.—Six-weeks grass, in the southwestern United States, the low spear-grass, Poa annua; also, any low quick-growing annual grass, as the six-weeks grass, in the southwestern United States, the low spear-grass, See *slough-grass.—Spring grass. Same as vernal grass, Same as bear-kgrass.

(c)—Summer grass, the low annual spear-grass. From annua.—Sweet-scented grass. Same as bear-kgrass. I and poverty-grass.—To bring to grass. Same as Johnon kyrass.—The-awned or triple-awned grass. Same on kgrass.—The-awned or triple-awned grass. See keltric.—Vellow grass. Same as bog-asphodel (which see under asphodel).—Yellow-eyed grass. See yellow-eyed grass. See yellow-eyed grass. grass, v. I. trans. 5. In printing, to discharge

(a workman). [Eng.]

II. intrans. 2. In printing, to seek or give temporary employment. [Eng.]

grass-bug (gras'bug), n. Any one of many species of leaf-hoppers which occur in pastures or meadows, Diedrocephala mollipes.

grass-cold (gras'kold), n. Inflammation of the lining-membrane of the nose of horses, an affection readily amenable to treatment. Also called nasal catarrh and coryza.

grass-comber (gras'kō'mer), n. A landsman who is making his first voyage at sea; a novice who enters naval service from rural

grass-crab (gras'krab), n. A Jamaican and South American crab, Pseudocorystes armaius. grassed (grast), a. Said of a golf-club of which the face is slightly spooned or sloped backward.

grasserie (gras'e-ri), n. [F.] A disease of the silkworm of commerce. The diseased worms become restless, bloated, and yellow in color, and when punctured exude a pus full of granular polyhedral crystals U. S. Dept. Agr., Div. Entom., Bulletin 39, N. S., p. 31.

U.S. Dept. Agr., Div. Entom, Bulletin 29, N. S., p. 31.
grass-fern (gras'fern), n. See *fern1.
grassfinch, n. 3. In Australia, any of the small finches of the genus Poephila.
grass-flower (gras'flou'e'), n. 1. A plant of the genus Sisyrinchium, especially S. angustifolium, with narrow grass-like leaves; blue-eyed grass.—2. The spring-beauty, Claytonia Virginica.
grass-hand n. 2. A market

grass-hand, n. 2. A newly engaged type-setter. [Printers' slang, Eng.] grasshopper, n. 4. A chaise of which the body is suspended by braces to the rear ends of wooden springs.—5. A mechanical arrangement for connecting the sucker-rods of several

ment for connecting the sucker-rods of several contiguous petroleum wells with a single steam-engine or other source of motive power. Groves and Thorp, Chem. Technol., II. 163.

-Cone-nosed grasshopper, any one of the wingless locustids of the genus Conocephalus.—Grasshopperdisease fungus. See */ungus.—Meadow-grasshopper, any one of the common field-inhabiting, long-horned grasshoppers of the family Locustide, as distinguished from the katydids, the cricket-like grasshoppers, and the shield-backed grasshoppers.

shield-backed grasshoppers.

grasshopper-elevator (gras'hop'er-el'ē-vātor), n. See derrick-*elevator.

grasshopper-mouse (gras'hop'er-mous), n.

Any one of several species of small mice of
the genus Onychomys, common in the northwestern United States, especially O. leucogaster. The food of these mice consists largely of grasshoppers: hence the name.

grasshopper-spring (gras'hop'er-spring), n.

See *spring.
grass-house (gras'hous), n. 1. The cottage of a cotter or grass-man.—2. Same as *grass-

grass-hut (gras'hut), n. A hut the roof and sides of which are made of thatch, bundles, or mats of grass, common in tropical regions. grass-ill (gras'il), n. An intestinal disease of lambs arising from the malassimilation of food at a time when they first make grass a part of their diet.

grassing, n. 2. The act or practice of working for a second employer elsewhere, after working the regular time for one's principal employer: so called by trade-unions, which rule out the practice in order to increase the opportunities for men who are out of work. Also called *smooting* and *foxing*. Webb, Indust.

Also called smooting and joing. Weel, industing Democracy, I. 439.

Brass-land, n. 2. In phytogeog., land naturally covered with grass, viewed ecologically. Grass-land is regarded by Schimper as one of three great types of climatic formation. He subdivides it into meadow, hygrophilous or tropophilous grass-land; steppe, xerophilous, treeless grass-land; and savanna, xerophilous grass-land with isolated trees.

grass-lawn (gras 'lân), n. A light, fine cotton or linen fabric of open texture for women's

grass-man (gras'man), n. 1. A peasant living in a cottage. [Scotch.]—2. The person charge of the common lands of the parish. [Scotch.]

grass-moth. n. Tass-moth, n.—Knot-grass moth, a British col-lectors name for a European and Asiatic noctuid moth, Apatela rumicis, whose larvæ live on many low herba-

2. In California, one of the grassnut, n. brodiæas, Triteleia laxa, common on adobe Soils. It bears an umbel of 10 to 25 beautiful violet-purple flowers. The stem rises from a deep-seated edible corm, to which the name, usually in the plural, applies. Also called *Ithuriel's-spear* (which see).

Also called Ithuriel's-spear (which see).

gTass-oil, n. Much has been learned of late years in regard to the chemical composition of the fragrant grass-oils which hold a prominent place in modern perfumery. The most important constituents are an alcohol, geranici (C₁₀H₁₈O), in Indian grass-oil or palmaross oil, from Andropogon Schænanthus; an aldehyde, geranial or citral (C₁₀H₁₆O), in lemon-grass oil, from Andropogon citratus; and another aldehyde, citronellal (C₁₀H₁₈O), in citronella-oil, from Andropogon Nardus.

grass-pink (gras'pink), n. 1. See under pink².

2. The Deptford pink, Dianthus Armeria.

grass-staggers (gras'stag'erz), n. 1. See stagger.—2. A frequently fatal disease of sheep and cattle, due to impaction of food in the third stomach. Animals suffering from it are said to be fardel-bound. See fardel-bound.—3. Cerebro-spinal meningitis or forage-poisoning

of horses. [Eng.] grass-tree, n. 2. In Australia, a tree of the lily family, Kingia australis, resembling species of Xanthorrhea.—3. In Tasmania, either of two trees of the family Epacridaceæ, Cystanthe dracophylla and C. pandanifolia, the latter usually called giant grass-tree, and often raising its long, slender, naked stems, which bear one or several huge crowns of long waving leaves, far above the surrounding vegetation.—4. In New Zealand: (a) A tree of the family Araliaceæ, Pseudopanax crassifolius, with very variable leaves, those of the young plants being from one to three feet long and but half an inch wide. It is then usually called umbrella-tree, from the way in which the rib-like leaves stand out. (b) A name

formerly given to the ti, Tætsia australis.
grass-walk (gras'wak), n. A garden-path
covered with grass, instead of gravel.

The grass-walk with its semicircular end forms the whole extent of the Cetinale garden.

E. Wharton, Italian Villas, p. 66.

grass-weed (gras'wed), n. Same as grass-

grass-work (gras'werk), n. In mining, as operation which is performed above ground. grass-worker (gras'wer'ker), n. In minin In mining, any

one who works above ground.

of an American noctuid moth, Drasteria erechtea. It somewhat resembles a geometrid larva in its looping method of progression, and feeds by night on the leaves of grass and clover.

of grass and clover.

grate², n.—Bodner's screw grate, a valuable contrivance for economizing fuel and effecting the consumption of smoke in burning bituminous coal, especially under steam-bollers. Screws are used to keep the grate-bars in motion, regulating their distance apart, and rocking them in such a way as to prevent coking of the fuel and keep it free from ash and clinker. Groves and Thorp, Chem. Technol., I. 516.—Inclined grate, a grate in which the bars are inclined at a slight angle so that the fuel, when fed to the furnace, slides downward into the back or hottest part of the fire, giving up its more volatile gases first, then coking and sliding down the grate until consumed.—Sectional grate, a grate in which the bars are arranged in groups or sections, for convenience in stoking and in making repairs.

grate-ring (grāt'ring), n. A circular casting

lation.] To divide (a drawing or design) into ROURTES

gratification, n. 4. Any reward in money given to soldiers for good conduct in a battle

or campaign; an allowance made to prisoners of war; a voluntary contribution made by soldiers to the widows of comrades.

gratin (gra-tan'), n. [F., < gratter, scrape grate: see grate².] 1. A browned crust.—2. Food served in a rich sauce and covered with browned courses. browned crumbs.

gratinate (grat'i-nāt), v. t.; pret. and pp. gratinated, ppr. gratinating. [gratin + -ate².] To cook in a rich sauce and cover with a crust of browned crumbs.

grating², n.—Concave grating, a diffraction grating the lines of which are ruled upon the surface of a concave mirror so that the spectra may be focused without the interposition of a lens. This important type of grating was introduced by Rowland in 1882, and is commonly known as the Rowland concave grating.—Diffraction grating. See diffraction.—Echelon diffraction



grating, an apparatus devised by Michelson to replace the ruled grating in a spectroscope, particularly in that form known as the constant deviation spectroscope, where the collimator and the telescope remain stationary and the grating is rotated. The echelon consists of a series of plane-parallel glass plates, each 10 millimeters thick, overlapping in such a way as to form a series of steps, each 1 millimeter wide. The plates, fourteen or more in number, all optically worked and in perfect optical contact, are mounted in a frame. The parallel rays of a beam of transmitted light emerge, because of their retardation, in a condition to interfere.—Nobert grating, a diffraction grating ruled by Nobert.—Rutherford grating, in optics, a plane-diffraction grating ruled upon metal. The term is commonly used to designate gratings ruled by means of Rutherford's dividing-engine, as distinguished from those later produced with the engines devised by Rowland.—Transmission grating, a finely ruled piece of glass or other transparent material, such as celluloid, showing a spectrum by transmitted light, in contradistinction to a ruled metal surface which gives a spectrum by reflected light. **Astrophysical Jour., Sept., 1903, p. 101.

Gratiolet's radiations. See *radiation. gratiolin (grā-tī'ō-lin), n. [Gratiola $+ -in^2$.] A bitter glucoside, $C_{40}H_{68}O_{14}$ (†). extracted from hedge-hyssop, Gratiola officinalis. It crystallizes in silky lustrous needles melting at

grattage (gra-täzh'), n. [F., < gratter, grate: see grate¹.] The process of scraping out the interior of the uterus with a brush having short, stiff bristles: resorted to as a substitute for curettage.

curettage.
gratuity, n. 2. In the British service, money paid to soldiers on reënlistment and to good-conduct soldiers on discharge.
graupel (grou'pel), n. [G.] A form of soft hail or half-melted snow or sleet.
grave², n.—Passage grave, in prehistoric archæol., a prehistoric grave in Europe, consisting of a dolmen or a stone burial chamber to which a covered passage leads.—
Stone grave, in prehistoric archæol., a grave the sides of which are lined with stones and which is covered with a slab, or slabs, of stone.

a slab, or slabs, of stone.

gravel, n.—Buchanan gravels, a subdivision of the Pleistocene deposits of lows. They are weathered gravels deposited during the melting and retreat of the Kansan ice, and are underlain by Kansan drift and overlain by Iowan drift orby loess.—Cannon-shot gravel, accumulations of glacial gravel, chiefly of rounded flints which occur in Norfolk and adjacent tracts in southeastern England.—Plateau-gravel, a glacial deposit resting on boulder-clay and accumulated in sheets over the plains and plateaus of northern Europe.

gravel-car (grav'el-kär), n. A tip-car or flat-car used to transport loose gravel. Such cars are sometimes fitted with a double mold-board plow, on a guide-rail, which, when the train is at rest, can be drawn, by means of a steel rope wound by the engine, over the cars, thus discharging the gravel on each side. See **car-unloader.

gravel-weed (grav'el-wed), n. 1. The false gromwell, Onosmodium Virginianum.-bush-honeysuckle, Diervilla Diervilla.

which the bars are arranged in groups or sections, for convenience in stoking and in making repairs.

grate-ring (grāt'ring), n. A circular casting which in the fire-box of a house-furnace forms the support for a round-, rocking-, dump-, or shaking-grate.

graticulate (grā-tik'ū-lāt), v. t.; pret. and pp. graticulated, ppr. graticulating. [See graticu
gravial (grāv'waks), n. Same as adipocere.

graviembalo (grā-vi-chem'bā-lō), n. [An alteration simulating It. grave, grave, of clavicembalo, q. v.] A harpsichord.

gravied (grā'vid), a. [gravy + -ed².] Served in or with gravy.

gravial (grāv'ik), a. [L. gravis, heavy, + 35]

-ficus, < facere, make.] Weight-producing. Edinburgh Rev., X. 147. ravimeter, n. 3. Specifically, a copper ves-

gravimeter, n. 3. Specifically, a copper vessel of one cubic foot capacity, with a heavy plate-glass cover, used in determining the density of large-grained gunpowder inclusive of the vacant spaces between its grains. See gravimetric density of gunpowder, under density. gravimetric, a.— Dupont gravimetric balance, a balance specially constructed for convenient use in determining the gravimetric density of fine-grained gunpowder.

gravimetry (grā-vim'e-tri), n. [L. gravis, heavy, + Gr. -μετρία, (μετρου, a measure.] The measurement of weight or the determination of the specific gravity of bodies.

graviperceptive (grav'i-per-sep'tiv), n. [L. gravis, heavy, + ML. *perceptivus, perceptive.] Perceiving the attraction of gravity: a term noting the awareness or sense of verticality in animals, a quality analogous to geotropism and geotaxis in plants. Jour. Roy. Micros. Soc., Oct., 1904, p. 545.
gravisensitive (grav-i-sen'si-tiv), n. [L. gravis, heavy, + NL. sensitivus, sensitive.]

gravis, heavy, + NL. sensitivus, sensitive.] Sensitive to the attraction of gravity; geotropic.

In a seedling, Phalaris canariensis, the apical part has only falling starch-grains, while lower down both forms occur, and correspondingly, we find that the seedling is gravi-sensitive throughout, but especially so at the apex.

Jour. Roy. Micros. Soc., Oct., 1904, p. 545.

gravitant (grav'i-tant), a. [NL. *gravitans, ppr. of gravitare, gravitate: see gravitate.] Attractive: said of forces of the same type as

that of gravity: opposed to repulsive.
gravitate, v. II. trans. To allow to fall or
move downward under the action of gravitation; manipulate (as gravel, in diamondmining) so that the heavier portions sink to the bottom.

the bottom.

Gravity chronoscope. See *chronoscope.—Gravity correction, the correction of the observed reading of a mercurial barometer for the fact that for the same height of the mercurial column the variation in the force of gravity produces a variation in the pressure. The gravity correction reduces the observed height of the barometric column to what it would have been if the force of gravity had retained the standard value that it has at sea-level and latitude 45°. The aneroid barometer and the boiling-point hypsometer do not require correction for variation of gravity, but the table of vapor-tensions expressed in barometric heights does require such correction.—Specific-gravity balance. See *balance.—Standard gravity, the value of the acceleration of gravity at some selected latitude and level which is taken as a standard in comparing the measurements of gravity made on different parts of the earth's surface. The latitude taken is frequently 46° and the level that of the surface of the sea.

gravity-return (grav'i-ti-re-tern'), mech., noting an arrangement of parts such that the force of gravity returns them to their normal relations after displacement: as, a gravity-return gun-carriage—one in which the upper part is on inclined guides and returns to the outward firing-position by gravity after

recoil from firing the gun.

gravity-valve (grav'i-ti-valv), n. A valve
which is closed against a pressure by the force
of gravity. Elect. World and Engin., Dec. 12,
1903, p. 979.

gravivolumeter (grav-i-vol'ū-mē-ter), n. [L. gravis, heavy, + E. volumeter.] A simple piece of apparatus by means of which the quantity or weight of a specimen of a gas may be determined with a fair degree of accuracy by a measurement of its volume under fixed conditions of temperature and pressure.

gravure (gra-vūr'), n. [F. gravure, \(\) graver, engrave: see grave1, v.] 1. Same as photogravure.—2. A print or plate produced by photogravure.

gray. I. a.—Gray atrophy. See **atrophy.—Gray matter or substance, the cellular as distinguished from the fibrillar (white) portions of the central nervous system: same as cinerea.

II. n. 5. Unbleached cotton fabric; a piece

of cotton or worsted cloth, in the natural color of the raw material, as it comes from the loom, before it is dyed or finished.—Alsace gray. Same as methylene *gray.—Bendo fast gray, a direct coal-tar color, of unpublished constitution, which dyes unmordanted cotton bluish-gray shades from a slightly alkaline salt bath.—Chicago gray, a direct coal-tar color prepared by combining diazotized Chicago crange with one of the amido-naphthol-sulphonic acids.—Direct gray. (a) A direct coal-tar color of the disazo type, derived from tolidine. It dyes unmordanted cotton gray in a salt bath. (b) Same as methylene *gray.—Trench gray a dull-gray mat finish of silver, first introduced by the French silversmiths.—Malta gray. Same as methylene *gray.—Methylene gray a basic coal-tar color of unknown constitution, prepared by the oxidation of dimethyl-paraphenylene-diamine, or by boiling nitroso-dimethyl-anlline-hydrochlorid with water or alcohol. It dyes tannin-mordanted cotton gray, but also possesses of the raw material, as it comes from the

the property of dyeing unmordanted cotton. Also called Also gray, direct gray, Malta gray, new and new fast gray, and nigrisine.— New or new fast gray. Same as methylene **Agray.—Oxford gray, a mixed black.and. white (§ black. § white) woolen cloth.—Payne's gray.

(a) An oil-color consisting of carbon-black, ocher, and French blue. (b) A water-color consisting of carbon-black, lake, and indigo.—Pearl gray. See pearl-gray.

Greek. + Gr. µavia, madness.] A furor or black, lake, and indigo.—Pearl gray. See pearl-gray.

mania for everything that is Greek.

gray-band (grā'band), n. A gray laminated quartzose sandstone of the Medina formation of western New York: used for flagstones.

graybeard-tree (grā'bērd-trē'), n. The fringe-tree, Chionanthus Virginica. Also called old-man's-beard.

grayish (grā'ish), a. [gray + -ish1.] Some-

what gray; tending to gray.
grayling, n. 4. In Australia, Prototroctes muræna, of the family Hoplochitonidæ, a fish which remotely resembles the English grayling. Also called cucumber-fish, cucumber-mulet, fresh-water herring, and Yarra herring.—5.

An American agapetid butterfly, Cercyonis alope, which occurs in several well-marked variaties. See below—Arctic grayling. Same as alope, which occurs in several well-marked varieties. See below.—Arctic grayling. Same as Alaskan grayling.—Blue-eyed grayling, an American butterfly, Cercyonis alope alope, dark brown in color, with a yellowish band on the outer half of the fore wings and two black spots with bluish centers. Its larves feed on grass.—Dull-eyed grayling, an American butterfly, Cercyonis alope nephele, of northern distribution, resembling the blue-eyed grayling, but lacking the yellow band on the fore wings.—Hybrid graylings, intergradations between Cercyonis alope alope and C. alope nephele.—Hontana grayling, a species of grayling, Thymallus montanus, found in the head waters of the Missouri river.

gray-nurse (grā-ners'), n. A species of small sand-shark, Odontaspis littoralis, of the family Odontaspididæ, widely distributed. [New South

grayumo (grä-yö'mō), n. [A Porto Rican form (also yagrumo) of a native name, answering to Central Amer. guarumo, Mex. guarumo, the Cecropia.] In Porto Rico, a name applied to several trees of palm-like aspect having a straight, slender trunk and a crown of large leaves, especially to Didymopanax Morototoni, of the ginseng family, and to Cecropia peltata, of the mulberry family. See *yagrumo.
graziery (grā'zher-i), n. [grazier + -y3.] The grazing business; the occupation of a grazier.

grazing business; the occupation of a grazier.
grazing business; the occupation of a grazier.
grease obtained by distilling with superheated steam
'Yorkshire grease' from wool and fatty materials which
have been recovered from other sources.—Engine-waste
grease, fatty or other lubricating material recovered
(generally by the use of solvents) from cotton-waste or
rags used to wipe the spindles, shafts, and other moving
parts of machinery. Such material now consists so largely
of mineral oils that in its recovered form it has little value
for soap-making; but it is applied to making cart-axle
grease and similar coarse lubricants.—Foot grease. (b)
The sediment which is often deposited from an expressed
fatty oil on standing. It consists mainly of impurities
which have been in suspension, but necessarily retains
along with these some of the oil.—Fullers' grease.
See */ullers' grease.—Golden grease, a bribe. [Slang.
U. S.]—Yorkshire grease, a mixture of fatty acids recovered from the soap-liquors used in wool-scouring, with
wool-grease from the raw material, and, sometimes, lubricating-oils from the spinning and weaving machinery:
used in soap-making and for lubricating purposes.

grease-heels (grös'helz), n. A specific affec-

grease-heels (gres'helz), n. A specific affection of the heels of horses. Usually associated with the growth of a parasitic fungus, an offensive discharge from the numerous sebaceous glands, and the formation of red, raw excrescences (grapes) on the surface.

grease-mold (gres'mold), n. A fungus, Phyco-myces nitans, which frequently occurs upon tallow and other grease. See mold² and Phycomuces.

grease-moth (gres'môth), n. pyralid moth, Aglossa pinguinalis, which also occurs in India, South Africa, and Australia. Its larve live in silken tubes in barns, stables, and outhouses among accumulations of vegetable rubbish. Although long supposed to be a grease-feeder, this is now doubted. Also known to British collectors as the tabby-

moth.
grease-nut (grēs'nut), n. Same as *cudgerie, 2.
grease-paint (grēs'pānt), n. Tallow or some
hard grease, melted and colored by stirring
into it various pigments, used by actors in
painting their faces. While hot it is run into
conveniently formed molds, sticks variously
colored being thus made to meet the reads. colored being thus made to meet the needs of the make-up.

grease-pox (gres'poks), n. Grease (see def. 3) produced in other animals or in man by inoculation from the horse.

grease-trap (grēs'trap), n. Same as trap1, 4.

great, a.—The great ice. See **ice. greatwort (grāt' wèrt), n. See Triumfetta. Greco-Asiatic (grē''kō-ā-shi-at'ik), a. Pertaining to the ancient Hellenic inhabitants of Asia, especially of the coast of Asia Minor.

Greco-Latin square. See **square1.

Greco-Latin square. See **square1.

Grecomania (grē-kō-mā'ni-ā), n. [L. Græcu Greek, + Gr. µavia, madness.] A furor mania for everything that is Greek.

Grecomaniae (grā-kō-mā'ni-k) = 0.000-1.

Grecomaniac (grē-kō-mā'ni-ak), n. One who has a mania for things Greek.

Greco-Phenician (gre'kō-fē-nish'an), a. Of or pertaining to both Greece and Phenicia: applied especially to Greek art developed under Phenician influences, as in northern Africa and Spain.

Grecophile (grē'kō-fil), n. [L. Græcus, Greek, + Gr. \$\phi\le i\nu,\ \text{love.}\] One who is friendly to or is an admirer of Greece and the Greeks, their

grecostasis (grê-kos' ta-sis), n. [L. Grecostasis, comman Gr. "Ipausóruo; C. Ipausóc, Greek, + ordou; station.] In Rom. archæol., a platform in the forum which was a post of honor for Greek and other foreign ambassadors.

Groek orders. See *order.

"green! I. a.—Green fish. (c) A fish cured simply by dring without sait or smoke.—Green manning. See *monuring.—Green solling. See *kooling.

II. n. 4. In golf: (a) The whole links or golf-course. (b) The putting-green, or portion of the links, devoid of hazards, within twenty yards of a hole.—Acid alizarin green, a mordan-acid dyestuff derived from anthracene. It is rendered extremely fast when subjected to an after chroming.—Acid green. See *acid-green. 2.—African pigment: same see extending the seed of th

blue. It dyes tannin-mordanted cotton green, and is used chiefly in calico-printing.—Milling green, an acid coal-tar color of unpublished composition which gives a very fast green upon wool.—Naphthalene green, an acid coal-tar color which dyes wool green in an acid stath.—Neitwisder green, a green pigment which cosists of Schweinfurt green or the acctoarsenite of copper mixed with calcium or barium sulphate.—New fast green, a basic coal-tar color of the triphenyl-methase type which dyes tannin-mordanted cotton green. Also called Victoria green.—New green. (a) Same as *maiachite-green, 3, and benzaldehyde green. (b) A basic coal-tar color of the diphenyl-naphthyl-methane type.—Night green. Same as iodine *green (b).—Oxamine green. As a direct coal-tar color which dyes unmordanted cotton green in a salt bath.—Russian green. Same as dark *green.—Same as in the green in golf, a tern applied to all that part of the course, excepting hazarda between the tees and putting-greens.

green!, v. t. 2. In oyster-culture, to give (oysters) a green tinge about the gills by putting them in pits.

ting them in pits.

greenalite (gre'na-lit), n. [Erroneously formed from green + -a- + -lite.] In petrog., metamorphosed rock composed largely of minute granules of green hydrous ferrous silicate. Leith, 1903.

The iron-bearing formation occurs in the Upper Humian, and in what is known as the Biwabik division. This comprises a variety of rocks, including states, cherts, and "greenatite." This last-named substance. onesists largely of minute granules of green ferrous sili-ate, without potash, and is named greenalite for conve-nience. Nature, Dec. 3, 1903, p. 116

greenback, n. 6. Salmo stomiats, the trout of the Arkansas river.

the Arkansas river.
green-bag (gren'bag), n. A lawyer: so called from the green bag in which barristers carry their books and papers.
green-blind (gren'blind), a. Color-blind as regards the green rays. Stud. Yale Psychol. Lab., VIII. 1.
green-blindness (gren'blind nes), n. Inability to distinguish the color green: a form of partial color-blindness.
green-bottle (gren'bot'l), n. Same as green-

green-bottle (gren'bot'l), n. Same as green-

green-brier, n.—Bristly or fiddle-shaped green-brier, Smilaz Bona-noz of the eastern and souther-United States: so named from its bristly stems and fiddle shaped leaves. See *bamboo-brier and *stretchberry.

green-coat (gren 'kôt), n. One who wears green coat, as a servant, a scholar at certain charity-schools in England, etc.

greener (green'ner), n. [green $1 + -er^1$.] skilled or inexperienced person; specifically, a person without previous experience who takes the place of another who is on strike,

takes the place of another who is on strike, or who takes employment simply to get experience. Scribner's Mag., Sept., 1902, p. 304.

green-felt (grēn'felt), n. A dense, felt-like growth of the alga Vaucheria.

greenfish, n. 3. Girella nigricans, a fish of the family Kyphosidæ, abundant in rocky places from Monterey bay, California, south to Cape San Lucas.—Alaska to Cape San Lucas. — Alaska greenfish, Heze-grammos octogrammus, a food-fish of the coast of Alaska green-groin (gren'groin), n. Gangrenous inflammation of the vermiform appendix and

surrounding parts.
greenhead¹, n. 2. Any one of several species of American gadflies which have green heads as the common greenhead, Tabanus costals, and the gray-striped greenhead, Tabanus limited.

reenheart, n. 3. In Jamaica. Zizyphu. Chloroxylon, one of the trees called cog-wood. In Jamaica, Zizyphu greenhew (grên'hū), n. [Also green-kwe: (green¹, a., + *hew¹, n., from hew¹, r.] 1. Is Eng. forest law, the green parts of trees or shrubs: same as vert¹, 1 (which see).—2. The right to cut the green parts of trees or shrubs

right to cut the green parts of trees or shrubs for fodder; the payment for such right. greenhide (gren' hid), n. A whip made of untanned hide; a rawhide. [Australia.] Greenhouse bug. See *bug2. green-jack (gren'jak), n. A carangoid fish. Caranx ruber, which inhabits West Indian waters. waters.

green-keeper (gren'ke'per), n. The person who keeps the putting greens of a golf-course in order. Also greens-keeper.

in order. Also greens-keeper.

Greenlandman (green'land-man), n. A vessel engaged in whaling near Greenland.

green-leek (gren'lek), n. A small Australian parrakeet, Polytelis barrabandi.

greenling, n. 2. Any fish belonging to the family Hexagrammidæ, carnivorous fishes living in kelp and about rocks in the North Pacific.

green-oyster (grēn'ois'ter), n. The green sea-weed Utva Lactuca, found in frequent associ-

ation with the oyster. [Australia.]
greenroom, n. 4. An apartment for drying damp or 'green' pottery before it is burned.
greensand, n. 2. [cap.] In geological classification, one of certain subdivisions of the Creeation, one of certain subdivisions of the Cretaceous system. In England the Lower Greensand overlies the Wealden formation and is characteristically developed on the Iale of Wight, where it includes the Atherfield clay, Hythe, Sandgate, and Folkestone beds in ascending order. The Upper Greensand is the aandy or chioritic facies of which the Galt is the clay equivalent (see Jattice of the Lower Greensand is generally equivalent on the Continent and elsewhere to the Aptian, the Upper Greensand, in geod., a bed of Cretaceous Greensand lying beneath the chalk at Cambridge, England, largely worked for phosphate of lime and phosphate dossils which are chiefly reptilian remains.

green-shaving (gren'sha'ving), n. In curry-ing, the process of shaving a hide or skin which is in a green or untanned state.

is in a green or untanned state.

green sighted (gren'si'ted), a. In psychol.

optics, seeing as if through green glasses.

If the eye is kept for some little time in a reddish illumination (in certain kinds of artificial light, or in a photographic dark room with a ruby window), it becomes adapted to red; on passing to a normal white-light illumination it is green-sighted, that is, it sees everything as it tinged with a certain amount of the complementary green. Since the light which in ordinary daylight leaks into the eye through the scierotic is tinged with red, the organ is (within certain limits) permanently dapted to red, and in so far permanently green-sighted. E. E. Titchener, Exper. Psychol., I. 1. 23.

greenstone, n. 3. A name in New Zealand for several varieties of jade, specifically for pounamu or nephrite, found chiefly on the west coast of the Middle Island: formerly much used by the Maoris for weapons, implements, and ornaments.

green-tail (gren'tal), n. 1. Same as *grannom.—2. A diarrhea of deer: named from the nom.—2. A diarrhea of deer: named from the profuse green-colored evacuations. It is often fatal, sometimes within twenty-four hours.

Greenwich stars. See *star¹.
greenwood, n. 3. Same as green-broom.
Greenwood bit. See *bit¹.
greenyard (grēn'yārd), n. Formerly, in England, a village pound for the reception of stray animals. Also green yard in which hunder.

animals; also, a grass-yard in which hounds may exercise.

may exercise.

gregale (grā-gā'lā), n. [It. *gregale, Sp. gre-gal, It. also greco, the northeast wind, prop. the 'Greek' wind, < L. Græcus, It. Greco, Sp. Griego, Greek.] The cold northeast wind of the Mediterranean Sea. See levanter1.

gregarinosis (greg'a-ri-no'sis), n. [NL., < gregarina + -osis.] A disease caused by the presence of parasitic gregarines.

gragarious. a. 2. By Drude and subsequent writers

presence of parasitic gregatines.
gregarious, a. 2. By Drude and subsequent writers
gregarious plants are further determined as growing in
patches among other vegetation, thus contrasting with
social species, which dominate the whole ground.

grège (grāzh), n. [F., < It. greggia; origin unknown.] The raw silk of the domestic silkworm before the gum is removed: a trade or manufacturers' name which has been gene-

rally adopted.

Gregorian, n. 3. In music, a melody written in one of the church modes; a piece of plain-

greillade (gral-yad'), n. [F.] Iron ore which has been sufficiently crushed for reduction in

has been sufficiently crushed for reduction in a Catalan forge.

grelifuge (grel'i-fūj), a. [F. *grélifuge, < gréle (OF. gresle), hail, + -fuge, < L. fugere, fiee.] Driving away or preventing hail.—

Gralifuge cannon, the cannon from which vortex-rings are fired for the prevention or dissipation of hall-storms.

Many thousands of these have been used in southern Europe. See *hail-cannon. Sci. Amer. Sup., Dec. 13, 1902, p. 22536.

grenadine, n. 2. (a) In cookery, a larded fillet, especially one of veal or poultry, glazed with its own concentrated liquor. Larousse. (b) A sweet drink; a syrup: used for colds, etc. Larousse.

grenat, n.—Carminnaph grenat. Same as alphanaphthylamine *red.—Soluble grenat, isopurpurate of potassium or ammonium, produced by the interaction of pieric acid and an alkaline cyanide: used as a brownish-red dye on wool and silk.—Syriam grenat, the rich red or purple-red garnets found in Syriam Pegu, India. gres, n. 2. The gum of the fiber of the domestic silkworm.—Gash because it and the statement in all worm.

gres, n. 2. The gum of the fiber of the domes-tic silkworm.—Gres bigarré, in geol., a subdivision of the Triassic system in the Vosges in Germany and France. It is correlated with the Upper Bunter sand-stone, which is the lower division of the Trias.—Gres cerame [F., 'potters'-earth stoneware']. See grès de Flandres, under grès.—Grès des Vosges, in geol., a subdivision of the Triassic system in Germany and France, correlated with the Lower Bunter sandstone and overlain by the Grès bigarré. It is unfossiliferous, and is characterized by the crystalline condition of the quartz-grains.

The green searequent association of Pinnipedia containing those forms in which the hind legs can be turned forward and used in walking. It includes the walruses, Odo-bænidæ, and eared seals, Otariidæ. Correlated with *Reptigrada. J. A. Allen, Hist. North

Amer. Pinnipeds, p. 3.

Gressyla (gres'i-lä), n. [NL.] A genus of anomalodesmaceous pelecypods with the right margin projecting over the left, ligament parivincular attached to an internal nymph-like callosity in the right valve: abundant in Jurasaic rocks.

gribane (grē-ban'), n. [Γ.] A small two-masted vessel of Normandy. grid, n. 4. A name applied to a particular arrangement of members in which a number of narrow, parallel members lying in one plane are fastened at their ends to two heavier par-

allel members perpendicular to the others. grid-bar (grid'bär), n. Part of a grating of parallel bars through which dirt and other extraneous matter pass in the scutching or pick-

ing of cotton.

gridiron, n. 3. In Amer. foot-ball, a trivial term applied to the field of play, in allusion to the fact that it is crossed by transverse white lines every five yards. It is also because white lines every five yards. It is also sometimes called a *checker-board*, because recent rules provide for longitudinal lines as well.—4. A structure of planks erected above well.—4. A structure of planks erected above the stage of a theater to support the mechanism by which the drop-scenes, etc., are worked.—Gridiron floor, the staging of planks near the roof of a theater, and directly over the stage, where the drop-scenes are manipulated; the gridiron.—Gridiron manceuver.

gridiron-tail (grid'ī-ern-tāl'), n. A small iguanoid lizard, Calliscurus ventralis, from the desert regions of southern Utah: named from the dark bars on its tail.

grid-valve (grid'valv), n. Same as gridiron

The last pale whitey-brown section had been earthed over, and Larry was dealing a few superfluous final pats with the flat of his broad grifaum, . . . when Peg came halting out of doors and up to the field-dyke.

Jane Barlow, Irish Idylla, p. 62.

8. The part of a Jacquard loom ises the warp-threads. Also called which raises the warp-threads. Also called knife-box. R. Marsden, Cotton Weaving, p.

griffe-bar (grif'bar), n. A blade or knife of the griffe, or lifting-frame in a Jacquard loom, upon which the warp-thread hooks catch. T. W. Fox, Mechanism of Weaving, p. 87.

Fox, Mechanism of Weaving, p. 87.

griffelschiefer (grif'el-shē'fer), n. pl. [G., griffel, a pencil, + schiefer, slate.] Pencilslate: used by German geologists to designate certain Lower Silurian slates of Thuringia in Germany which, being intersected by cleavage-planes in two directions, are broken for slate-pencils. They contain some radiolarians (Snawroiden)

griffel, n. 10. In track athletics, a piece of cork, shaped to fit the hollow of the hand, which a (Snawroiden) (Sphæroidea).

griffin-dog (grif'in-dog), n. A breed of large hunting-dogs. They combine the qualities of the setter and the pointer, and have a harsh coat which specially adapts them for work in thick covert. The color is a reddish gray. The breed, which is of modern origin, originated in Germany. Also basett-grifon.

gri-gri², n. 2. In West Africa, the sassy-bark: see Erythrophleum. The name is probably due to the fact that the tree enters into the fetish worship and ordeals of the natives.

grike (grik), n. [A variant of crike (ME. crike), dial. form of crick².] 1. A crevice; a chink; a widened joint in rock. [Prov. Eng.] Nature, Nov. 13, 1902, p. 33.—2. A ravine on the side of a hill. [Prov. Eng.] gril, v. A simplified spelling of grill. grill², n. 2. Faint and short white lines or cross-bars on some flat surfaces of engraving.—3. In elect., the grid of a storage cell

3. In elect., the grid of a storage cell. grill², v. t. 2. To mark or stamp with a series of parallel lines like a grill; specifically, in line-engraving, to break up (a too flat surface) with short bars of faint white lines sometimes crossed at right angles, as may be seen in some forms of postage-stamps. grilled (grild), p. a. 1. Cross-barred; made

in the form of a grill; specifically, said of the flat surface of an engraved plate which shows short bars or cross-bars of white lines.—2. Roasted on a gridiron.

Grimmia (grim'i-ā), n. [NL. (Friedrich Ehrhart, 1782), named for Johann Friedrich Karl Grimm (1737-1821), a German botanist.] A

large genus of true mosses, type of the family Grimmiaces. It consists of more or less compactly tufted plants, rooting at the base with lanceolate, mostly entire leaves, spherical or ellipsoidal capsules, and a peristome of 16 teeth (rarely absent). There have been described 241 species, distributed over all the earth, mainly intemperate, frigid, or alpine regions, growing chiefly on rocks: 104 are found in America.

Grimmiacess (grim-ilarge genus of true

found in America.

Grimmiacess (grim-iā'sē-ē), n. pl. [NL.,
Grimmia + -acess.] A family of acrocarpous mosses of the order Bryales, typified by the genus Grimmia, and characterized chiefly by the fact that the teeth of the peristome are performed or apilit up into several strands. It the fact that the teeth of the peristome are perforated or split up into several strands. It contains 7 genera, of which Grimmia and Rhacomitrium are the most important, widely distributed over the globe, but rare in the tropics. They are leafy, tufted mosses growing chiefly on rocks and stones, rarely on trees or on the ground.

Grimm's attack. See *attack.

grimthorpe (grim'thorp), v. t.; pret. and pp. grimthorped, ppr. grimthorping. To treat in the manner of Lord Grimthorpe, that is, to 'restore' (an old piece of architecture) with the effect of spoiling it, as Lord Grimthorpe is said

effect of spoiling it, as Lord Grimthorpe is said to have done when he undertook to restore the west front of St. Albans Abbey in England.

Why should any one who finds it stated that a book has been bowdlerized or grangerized, that a man has been boycotted, that a church has been grimthorped, or that a writer shows a Zolaizing tendency, be denied the explanation of these words because they have been formed from

valve.

Griess's test. See *test1.

griev, v. A simplified spelling of grieve.
griffaun (gri-fân'), n. [Also griffawn, more correctly graffane, < Ir. graffan, < grafaim, I scrape:
see grave!, v.] An Anglo-Irish agricultural implement used for cutting turf to be dried and burned.

Tion had been earthed consists of the leaves and flowering tops of Grindelia robusta and G. squarrosa. The name of the consists of the leaves and G. squarrosa. The name the consists of the leaves and G. squarrosa. consists of the leaves and flowering tops of Grindelia robusta and G. squarrosa. The name California gum-weed has been used of the official grindelia in general, but only the former species is Californian, the latter being distributed only over the great interior region. G. robusta is somewhat preferred, and, though collected in large quantities in California, is said to be scarcer than G. squarrosa. The virtue of grindelia resides in the gum which exudes from the heads and upper leaves.

grinder, m., 1. (f) A cylinder covered with emery for sharpening the wire teeth in card-clothing.—Grinder's lung. See *lung.

grinder-head (grin'der-hed), n. A bench grinding-machine which carries an arbor for two emery- or carborundum-wheels.

emery- or carborundum-wheels.

runner grips when running.
grip-block (grip'blok), n. A pulley-block attached to the grip or hoisting-tongs on a loghandling machine.

gripe¹, n.— Watery gripes, cholera infantum. Griphopithecus (gril'o-pi-thē'kus), n. [Gr. $\gamma \rho i \phi o \varsigma$, a riddle, $+\pi i \theta \eta \kappa o \varsigma$, an ape.] A genus of anthropoid mammals known by isolated molars from the Miocene Tertiary of Austria. grip-knot (grip'not), n. A clamp; a contrivance for holding an article while it is being turned in a lathe.

gripment (grip' ment), n. [grip² + -ment.] Seizing; holding; gripping.

Generally speaking, the harder the surfaces in contact, the lower the coefficient of friction, and the higher the pressure under which gripment takes place.

Jour. Franklin Inst., July, 1903, p. 51.

grip-pedal (grip ped'al), n. In a bicycle. a pedal fitted with a spring or other device for holding the foot to the pedal. Also called grip-treadle.

gripping-rolls (grip'ing-rolz), n. pl. Feeding-rolls; a pair of rotating rolls between which a board or other piece of material is gripped and drawn or pushed along into a planing or other

grisaille, n. 2. A fancy fabric with a cotton

warp and a wool weft for women's wear.

gris de perle (grē-de-pārl'). [F., 'pearlgray.'] A peculiar shade of gray, sometimes

and studies. We possess excerpts from a work on gromatics. W. S. Teufel (trans.), Hist Roman Lit., II. 147.

gromet-set (grom'et-set), n. A hand-tool for seen in the glaze of Chinese porcelain; pearl-

gray.

Grison liquid. See *liquid.
grisonnite (grē'son-īt), n. [F., < grison (grisonn-), gray, + -ite, E. -ite².] A name given to certain of the explosives of Favier. (See Favier *explosives.) One of these consists of 95.5 parts ammonium nitrate with 4.5 parts trinitronaphthalene; another of 92 parts ammonium nitrate with 8 parts dinitronaphthalene.

monium nitrate with 8 parts dinitronaphthalene.

grit², n.—Altamaha grits, a division of the older Miocene of Georgia.—Berea grit. Same as Berea sandstone.
—Caloareous grit, a division of the Middle Oxford Oblites or Corallian.—Cocktail grit.—See Esopus *grit.
—Denbigshire grits, a division of the Upper Silurian in North Wales, equivalent in part to the Wenlock group.
—Esopus grit. [Esopus, a village in Ulster county, New York, a subdivision of the Lower Devonian in eastern New York, New Jersey, and Fennsylvania. It attains a thickness of 400 feet, is underlain by the Oriskany limestone, and is overlain by the Schoharie grit. It was originally termed the Caudagalli or Cocktail grit, from the presence of a supposed organism which has been termed Fucoides cauda-galti. Otherwise it is nearly barren of fossila.—Foreland grits, a division commonly regarded as the lowest of the typical marine Devonian series in Devonshire.—Glengarif grits, a subdivision of the Old Red Sandstone in the south of Ireland, passing down into Upper Silurian strata and in some regions overlain by the Kiltorcan beds.—Gryphite grit, a name given to some of the strata of the Interior Oblite in Britain on account of the prevalence of the bivaive Gryphaea. The term Gryphite limestone is applied to some of the strata of the same age.—Hangman grits, the uppermost division of the Lower Devonian in North Devon, lying between the Lynton group beneath and the Ilfracombe alates above.—Harlech grit, a division of the Upper Carboniferous coal measures of England, separating the upper and lower coal-bearing series, and consisting of a succession of plant-bearing grits and asndstones 1,500-2,000 feet thick.—Rensselaer grit, a deposit of grit, regarded as of the age of the Oneida conglomerate which constitutes the upper part of the Shawangunk Mountains in eastern New York. It has commonly been regarded as of the age of the Oneida conglomerate of central New York, though present evidence indicates that it is of somewhat later date.—Yorkshire grits, certain g

Gritti's amputation. See *amputation. grivenink (grō'vi-ningk), n. [Russ. grivininkŭ, (grivna, ten copeeks.] A Russian coin; a ten-copeek piece.

grivna (grēv'nā), n. [Russ. grivna.] A Russian silver coin, equal to 10 copecks, and weighing 31.992 grains troy. Copper coins of this name were also struck. grizzle¹, n. 4. In brickmaking, a badly burned

second-quality brick of a grayish color.

grizzle² (griz'l), v. i. [Also grizzel, grizle, grisle; origin obscure.] 1. To laugh or grin; show the teeth like a dog; snarl.—2. To grumble; complain; whine; fret. [Prov. Eng.

or Australian.]
grizzly, n. 3. A machine used for breaking
coal or other material to a moderately small

grizzly-king (griz'li-king), n. In angling, an artificial fly having a green body, a dark-gray hackle, a scarlet tail, and mottled wings. grizzly-queen (griz'li-kwēn), n. In angling, an artificial fly.

G. B. jug. See *jugl.
gro. An abbreviation of gross.
groat. n.—Borage groat. a Scottish silver coin of 1467.

gro. An abbreviation of gross.
groat, n.—Borage groat, a Scottish silver coin of 1467,
of the value of 12 pence.—Spurred groat, a Scottish
silver coin of the value of 16 pence.—Tournay groat, an
Anglo-Gallic silver coin of the time of Henry VIII.: so
called from being struck at Tournay in France.
groining, n.—Fan groining. Same as fan *vaulting.
Grolier binding. Same as Grolier design.
Grolieresque (gro'li-èr-esk'), a. In the style
of binding or ornament used by Grolier, which
was a pleasing combination of curved lines

was a pleasing combination of curved lines about a geometrical framework. gromatics (gro-mat'iks), n. [LL. gromaticus, gromatics (gro-mat'rs), n. [LLL. gromaticus, grumaticus, of land-surveying (gromatica, the art of land-surveying), \langle groma, gruma, a surveyor's measuring-rod, \langle Gr. $\gamma \nu \omega \mu \omega \nu$, the index of a dial, a carpenter's square, etc.: see gnomon.] The art of land-surveying, as the laying out of camps.

He [Frontinus] also left records of his varied experience and studies. We possess excerpts from a work on gromatics. W. S. Teuffel (trans.), Hist. Roman Lit., IL 147.

making gromets.

grondwet (grond'vet), n. [D., \(\rangle grond, \text{ ground, ground,} \)
+ wet, law.] A fundamental law or constitution in lands settled by the Dutch or under Dutch influences.

Being the principal Dutch colony in the Malay Archipelago, Java was the first to benefit from the material change which resulted from the introduction of the Grondwet or Fundamental Law of 1848 in Holland.

Encyc. Brit., XXIX. 788.

Gronovius's dodder. See *dodder1.
groo-groo (grö'grö), n. Same as gru-gru.

Gronovius's dodder. See *dodder1.
groo-groo (grö'grö), n. Same as gru-gru.
groove, n.—Dental groove, a slight furrow along the edge of the jaw in mammals which marks the base of the ingrowing dental lamina.—Gential groove, in embryol., a furrow or groove which in course of development becomes the rima pudend or the urethra, according to the sex.—Germinal groove, in embryol., a median longitudinal groove in the germ-band of insects which gives rise to the mesoderm throughout the greater portion of its length and, in the region of the mouth and amus, to the cellmasses that spread over the yolk to form the entoderm.—Gothic groove, in mech., a groove having a Gothic arch section in a roll.—Groove of Hatschek, a peculiar sense-organ, supposed to have a gustatory function, which lies against the right side of the notochord in the wall of the buccal hood of the lancelet (Branchiostoma [Amphiozus) lanceolatum).—Harrison's groove, a sinking in of the chest-wall along the line of insertion of the diaphragm, noted occasionally in cases of extreme shortness of breath, especially in children.—Lacrymal groove, a depression in the bony wall of the orbit which lodges the lacrymal sac.—Leakage groove, a groove turned in an engine-piston to prevent steam from leaking past the piston. The steam forms eddies in such a groove instead of going right by it.—Nasobuccal groove, a groove which connects each nostril with the mouth, as in the sharks.—Parapodial groove, in certain gastropods, as the Endodontides and the Zonitides, a deep longitudinal furrow running along each side of the body a short distance above and parallel to the edge of the foot.—Pedal groove. Same as parapodial *groove.—Vertebral groove. (b) The depression or gutter on either side of the spine.

groove-bit (grov'bit), n. A boring instrument of which the shaft is grooved at one side so that the chips from the point may pass up the shaft and escape at the entrance to the hole.

shaft and escape at the entrance to the noise.

groove-board (gröv'börd), n. In organ-building, that part of a wind-chest in which or on
which are the grooves. Also called channelboard. See groove, 3 (c).

groover-head (grö'ver-hed), n. A cuttermade
of one or of several pieces, used in a wood-planing or -sawing machine to make grooves in
boards or lumbout.

ing or -sawing machine to make grooves in boards or lumber.

grooving, n. 2. The forming of grooves in boilers at places where very rapid deterioration of the metal takes place, particularly at the laps of the riveted joints.

grooving-hook (grö'ving-hūk'), n. A hookshaped tool for making a groove in wood.

grooving-machine (gro'ving-ma-shēn'), n. In sheet-metal work, a hand-power machine for forming a groove in the seam in tin and sheetforming a groove in the seam in tin and sneet-iron pipe. It consists of a bench-pedestal with a long horn for supporting the pipe or other hollow sheet-metal form, and a traveling roll which, by means of simple ratchet-gearing, can be made to travel over the joint or seam of the pipe as it rests on the horn. By the use of different rolls, grooves can be formed, seams pressed flat, and other work done in forming a joint in the pipe. The end of the horn can be released from its support to allow for the removal of the finished pipe.

Next a set of grizzlies consisting of I-inch round iron bars is passed, when finally comes a double screen of heavy galvanized iron wire with a 1-inch mesh.

Elect. Rev., Sept. 17, 1904, p. 455.

Bleect. Rev., Sept. 17, 1904, p. 455.

**Elect. Rev., Sept. 17, 1904, p. 455.* -2. A plane having an iron that reaches from side to side, so that the frame of the plane will not interfere when planing a groove; a rabbet-

groover-head.
grooving-tool (grö'ving-töl), n. Any tool used
for cutting grooves; a gouge; specifically, a
round-pointed tool used by wood-engravers.
groper² (grō'per), n. Same as grouper.—Bine
groper, a large sea-fish of New South Wales and Tasmania, Acharodus gouldi, of the family Labridæ. Often
called parrot-fish in Australia and bluehead in Tasmania.

grorudite (grô'rō-dit), n. [Grorud, near Christiania, Norway, +-ite².] n. In petrog., a fine-grained green porphyry composed of alkalifeldspars rich in soda, with quartz and ægirite and occasionally hornblende and mica. Brög-

grosbeak, n.—Sociable grosbeak, the sociable weaver-bird, Philæterus socius, many of which nest together, building a huge, dome-shaped structure of grass, resembling a haystack. See cut under hive-nest.

gross, I. a. 10. Relatively large; specifically, visible to the naked eye; megascopic; not mi-

Operation was performed, and the kidney in its general contour and gross substance gave no satisfactory evidence of the cause of the trouble.

Med. Record, Feb. 14, 1903, p. 268.

The tumor presented the gross appearance of a sarcoma... There was no gross disease, except in the prefrontal region.

Phil. Med. Jour., Jan. 31, 1903, p. 221.

Gross efficiency. See **efficiency of a source of light.

II. n.—Power in gross. See power1, 7 (c).
grossetto (grō-set'ō), n. [It., dim. of grosso, a coin, (grosso, big, thick: see gross.] A Venetian money of account, one twelfth of the

gross-flute (grös'flöt). n. [G. grosse flöte.] In organ-building, an 8-feet flute-stop of large scale and rich tone.

grossone (grō-sō'ne), n. [It., < grosso, big. thick: see gross.] A silver coin of Venice and of other states of Italy, equal to 8 grossi.

and of other states of Italy, equal to 5 grossi.

grossulariaceous (gros 'ū-lar-i-ā' shius), a.

Belonging to or having the characters of the
gooseberry family, Grossulariaceæ.

grossulin (gros'ū-lin), n. Same as pectin.

grote (grō'te), n. [LG: see groat.] 1. A current subsidiary coin of Bremen, one seventysecond of a reichsthaler, equal to one United
States cent.—2. A Flemish coin one twelfth States cent.—2. A Flemish coin, one twelfth of a shilling.

or a shifting.
grothite (grot'it), n. [Named for Professor
Paul Groth, a German mineralogist.] A lightbrown variety of titanite containing a small
amount of yttrium

amount of yttrium
grouch (grouch), n. [grouch, v.] A fit of
sulkiness. [Colloq.]
grouch (grouch), v. i. [A variant of grutch,
grudge, v.] To be sullen or morose.
groundly (grou'chi), a. Sullen; morose; peevish; grouty. [Colloq.]
groundl. I. n.—Blue ground. See blue. The local
name at the Kimberley diamond mines, South Africa,
for the matrix of the gem. While embracing a number
of rocks, it is in largest part a variety of peridotite, called
kimberlite. Near the surface it has weathered yellow,
the 'yellow ground of the miners. Below this it is the
typical blue. Even when hard in the depths of the mine,
it softens on exposure and may be washed for the gems
without crushing.—Pitted ground, in cerana. Same
as king's *land.—To take ground, in milit., to extend
the front of a line.—Yellow ground, the uppermost
portion, about 100 feet in thickness, of the diamond-bearing rock at the Kimberley mines, South Africa. Compare
blue *ground.

II. a.—Ground note, stroke, tissue, tone.

II. a.—Ground note, stroke, tissue, tone. See *note1, etc.

ground¹, v. t. 8. To set (a color); to make (a color) fast. C. T. Davis, Manuf. of Leather, p. 399.—To ground the bat. See *bat1.

groundberry, n. 2. In Australia, either of two species of dwarf shrubs of the family Epacridaceæ, Staphelia humifusa and S. pinifolia. Both bear small fruits with a viscid, sweetish, edible pulp.

ground-bread (ground'bred), n. Same as sou-

ground-bridge (ground'brij), n. That portion of a corduroy road which crosses a stream or other body of water: a system of rough paving for a ford through a stream having a bad bottom, or through a quagmire or quicksand, formed by laying small logs or poles parallel and close together across the roadway and loading them down with stones.

ground-bundle (ground'bun'dl), n. In neurol., a bundle of nerve-fibers adjacent to the central gray matter in the ventral portion of the spinal cord; the fasciculus ventralis proprius, which is continuous with the fasciculus longi-tudinalis medialis in the medulla oblongata.

plane.
grooving-saw (grö'ving-så), n. A single circular saw used for the same purpose as the groover-head.
grooving-tool (grö'ving-töl), n. Any tool used for cutting grooves; a gouge; specifically, a round-pointed tool used by wood-engravers.
groper² (grō'pèr), n. Same as grouper.—Blue groper, a large seafish of New South Wales and Tasmania, Acharodus gouldit, of the family Labridae. Often mania, Acharodus gouldit, of the family Labridae. Often hand fash in Australia and bluehead in Tasmania.

Letudinalis medialis in the medulla oblongata.
ground-burnut (ground'ber'nut), n. The land-caltrop. See caltrop, 3, and Tribulus.
ground-cable (ground'kā'bl), n. Naut., the anchor-cable; a section of mooring-cable which is intended to lie on the bottom.
Ground-cable (ground'kā'bl), n. 1. The ground-cable (ground'kā'bl), n. Naut., the anchor-cable; a section of mooring-cable which is intended to lie on the bottom.

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Ground-cable (ground'kā'bl), n. 1. The ground-cable (ground'kā'bl), Also called poverty-plant.

all the small plants growing in a forest, except young trees: such as forns, mosses, grasses. and weeds.

ground-cured (ground'kūrd), p. a. Cured upon the ground, that is, without cutting; cured in the turf: said of several Western grasses, as the Buffalo grass (Bulbilis), blue and black grama (Bouteloua), which furnish winter graz-

Live stock subsisted largely on the ground-cured range grasses, etc. U. S. Mo. Weather Rev., Jan., 1902, p. 6

ground-detector (ground'de-tek'tor), n. In elect., a device for indicating when the insu-In lated conductors of an electric system become grounded. It consists of a wire running from the insulated lines to earth and having an incandescent lamp, or sometimes a voltmeter or galvanometer, in circuit. Current will flow in this wire only when the insulated system is connected with the earth at some other point. Trans. Am. Inst. of Elect. Eng., Jan.—July, 1902, p. 598.

ground-drummer (ground'drum'er), n. Same

as croaker, 4 (b).
ground-elder (ground'el'der), n. See *elder2.
ground-feeding (ground'fe'ding), a. Feeding
on the bottom of the water, as certain fishes:

an anglers' term. ground-festoon (ground'fes-tön'), n. Same as

*ground-cedar, 1.
ground-fielding (ground'fēl'ding), n. In cricket,
fielding or stopping the ball upon the ground,
in contradistinction to catching it in the air.
ground-fiea (ground'fiē), n. Any one of many

ecies of leaping thysanurous insects which

inhabit rich earth.

ground-holly (ground'hol'i), n. See *holly1.

ground-hornet (ground'hôr'net), n. Any hornet that nests in the ground, as Vespa germanica

ground-house (ground'hous), n. Ahouse with a peaked roof the eaves of which come down to the ground.

Macgregor describes and figures small ground-houses, with the gable roof coming right down to the ground, at Neneba, on Mount Scratchley.

Geog. Jour. (R. G. S.), XVI. 422.

ground-itch (ground'ich), n. An inflammation of the skin of the feet which affects coolies who work in rice-fields in the East. Buck, Med. Handbook, VI. 221.
ground-joint (ground'joint), n. In masonry, the meeting of an upper and lower course of stone in a wall

stone in a wall.

ground-laurel (ground'lâ'rel), n. The trailing arbutus, Epigæa repens.
ground-lemon (ground'lem'on), n. The wild mandrake or May-apple, Podophyllum peltatum. Also called wild lemon.

ground-lily (ground 'lil'i), n. wake-robin, Trillium cornum. groundman (ground man), n. The nodding

In cricket. man whose duty it is to keep a cricket-ground

man whose duty it is to keep a cricket-ground in condition for play. Also groundsman. ground-mine (ground'mīn), n. See *mine². ground-mite (ground'mīt), n. Any acarid of the family Trombididæ. ground-moraine (ground'mō-rān'), n. In geol., a compact, unstratified deposit formed beneath glaciers; till; boulder-clay.

The first division of the former [moraines]—ground-moraines—take various forms, from nearly level plains to drumlins and regularly undulating country, with no level spaces, such as the Baltic lake plateau.

Geog. Jour. (R. G. S.), XIII. 299.

ground-moss (ground'môs), n.
*ground-cedar, 2.
ground-needle (ground'nē'dl), n.
musky *alfilerilla. Same as

Same as

ground-parrot (ground'par'ot), n. 1. The flight-less owl-parrot or kakapo, Stringops habrop-tilus, of New Zealand.—2. A small farmer in

Australia, otherwise known as a cockatoo. See *cockatoo, 2. [Australia.]
ground-pea, n. 2. Same as groundnut, 3.
ground-pine, n. 3. The pineweed or orange-grass, Sarothra gentianoides.—4: The American germander, Teucrium Canadense.

ground-pink (ground pingk), n. An annual herb of southern

California, Lin-anthus dianthi-florus, from 1 to inches high, which carpets meadows and slopes with its bloom in March. bloom in March.
The funnel-shaped
corollas are nearly
an inch broad, pink
in color, and fringed.
The plant is grown
in gardens for edgings and rockwork
under a former
name, Fenziia. The
genus Linanthus
was long included in genus Linanthus was long included in Gilia, whence this species is some-times called fringed



dianthiflorus).

ground-cypress (ground'sī'pres), n. See *cy- ground-plasm (ground'plazm), n. The more press1. of the protoplasm, either in the nucleus or the cytoplasm.

ground-provisions (ground'prō-vizh'onz), n. pl. In the West Indies, a collective name for all kinds of roots used as food.

They trust more to plantain-groves, corn and other vegetables than to what are called ground-provisions; such as yams, eddoes, potatoes, cassada and other esculent roots

Bryan Edwards, A Hist. of the Brit. W. Indies, II. 162. ground-raspberry (ground'raz"ber-i), n. The

goldenseal, Hydrastis Canadensis.
ground-rattler (ground rat'ler), n. A small
rattlesnake, Sistrurus miliarius, found along
the Atlantic and Gulf coasts south of Fort
Macon, Ga., up the Mississippi Valley, and
west to Oklahoma. It is of a dark ashen-color.
marked along the back with rounded brown
blotches, and is one of several rattlesnakes
to which the name Magagaguag is given to which the name Massasauga is given.

groundsel-bush (ground'sel-bush), n. Same as groundsel-tree.

ground-shield (ground'sheld), n. In elect., a conducting-plate, between the primary and secondary windings of a transformer, which is connected to earth and serves to prevent the high-tension currents of the primary coil from entering the secondary circuit. Trans. Amer. Inst. Elect. Engin., 1904, p. 681.

groundsman (groundz'man), n. Same as *aroundman.

ground-spearing (ground'spe"ring), n. A fish, Trachinocephalus myops, of the family Syno-dontidæ, common in the West Indies and Brazil. ground-spider (ground'spi'der), n. Any ground-inhabiting spider, especially any member of the families Lycosidæ and Attidæ. ground-substance (ground'sub'stans), n. 1. In histol., the structureless substance which him her them and learn in histolations and learn in histolations.

lies between cells or in which cells are embedded.—2. The fundamental or basic substance of a cell or tissue.

The wild ground-thermometer (ground ther-mom'e-um pelta- ter), n. See *soil-thermometer.

ground-timbers (ground tim berz), n. pl.
Naul., the timbers of the lower course in the
making up of the frame of a wooden vessel. ground-vine (ground'vin), n. The twin-flower, Linnæa borealis.

ground-wasp (ground'wosp), n. *ground-hornet. Same as

ground-weave (ground'wev), n. The founda-tion weave in the structure of figured fabrics. ground-worm (ground'werm), n. An earthworm.

group¹, n., 3. (b) In the recommendations of the International Geological Congress this term is applied, in geological classification, to stratigraphic divisions of the highest order comprising several terrains. Its equivalent term in the time scale is era.

5. (b) In combinatorial analysis, one of the

classes into which the objects are distributed classes into which the objects are distributed when the order of the objects in a particular class is material. (c) In group-theory, a set of definite operations containing the operation compounded of any two of the set, and also the inverse of every operation of the set.—6. In crystal., a class of crystals characterized by the same degree of symmetry. Each crystalline system embraces several such groups or classes. See **Example of the paper classes. See *symmetry, where the names commonly employed in designating the more important of these groups are given.—7. In ethnol., a number of people united together by important of these groups are given.—7. In ethnol., a number of people united together by common habits and usages. Brinton, Basis of Social Relations, p. 33.—Albirupean group. See *albirupean.—Alternating group. (b) A group composed of all those substitutions which are equivalent to an even number of transpositions: as, for example, abed, acdb, abcb, cbda, abac, bcda, abcb, cabd, acdb, acdb, cdab, cbda, cbda, dacb, bcda, cabd, bcdc. cdab, dcba.—Anor group [Anor, a commune in France], a Lower Devonian formation in Belgium and northern France.—Anticosti group, a name given by the Canadian geologists to the Silurian strata which compose the island of Anticosti and range in age from Middle Silurian to the upper part of the marine Silurian represented in New York by the Niagaran formation. The rocks are soft calcarsous shales and limestones, and abound in finely preserved invertebrate fossils.—Applecross group, a subordinate member of the Torridonian strata of northern Scotland.—Aquia Croek group, certain Eccene Tertary deposits of the United States in the region traversed by the Potomac river. They are largely composed of greensand, some of them indurated, and abound in fossils.—Arapahoe group, a stratigraphic division of the Laramie group of formations developed in the vicinity of Denver, Colorado. The Arapahoe beds constitute, according to Croes and Eldridge, the lower division of the upper Laramie or Denver group and are mostily conglomerates. They attain a thickness of 800 feet.—Arenig group, the lowest division of the Lower Silurian rocks in Greak Britain.

bands of sandstone which pass down conformably into the Tremadoc group of the Cambrian series. They are typically developed in Arenig Mountain, Wales, where typically developed in Arenig Mountain, Wales, where typically developed in Arenig Mountain, Wales, where the part of his Cambrian system. The group is division that two to three parts and a number of zones based on the predominance of certain species of grapfolites,—Arryallur group, in the Cretaceous series of India, the uppermost, and most highly fossiliferous division—Arrundoi group, not the division of the sequence of the control of the cont

lower California northward beyond the Queen Charlotte Islands. It is regarded by Californian geologists as equivalent to the Upper Cretaceous and as forming an unbroken series with the Tertury. It sattains a thick group of the Control of the Cont

the pelagic Triassic series of the Mediterranean basin and of India. — Laftayette group, a division of the Tertiary rocks, now regarded as of Pilocene age in the Guir region of the United States, lying above the Floridian series and rocks. The Control of the Guir region of the region— Lawsian group, a group of guesses and related metamorphic rocks and the Apporantous group of this region— Lawsian group, a group of guesses and related metamorphic rocks and the Hebrides: named by Murchison (1888) from the island of Lewis.— Little River group, a series of strata in Nova Scotia referred to the Middle Devontan.— Lower Helderberg group or Helderbergian. Its rocks are of earliest Devouina nage. See Helderbergian. The rocks of earliest Devouina nage. See Helderbergian. The rocks are of earliest Devouina nage. See Helderbergian. The rocks are of earliest Devouina nage. See Helderbergian. Its rocks are dealers of the Helderbergian of the Lower Devouina and the Helderbergian of the Lower Devouina and the Helderbergian of the Lower Devouina and the Helderbergian of the Lower Carboni-ferous or Mississippian series in Mchigan.— Memorian group, the news division of the Lower Carboni-ferous or Mississippian series in Mchigan.— Memorian group, and series of Middle Cambrian sandstones, shales, slates, flags, and grits which are seen near St. Davids for a series of Middle Cambrian sandstones, shales, slates, flags, and grits which are seen near St. Davids (Menevia) in Wales, where they attain a thickness of about Oxfeet and the conformable to both Upper and Lower Tough, the lowest member of the Sociene Tertiary in the States of Alabama and Georgia, and extending westward into Arkshase and Texas.— Monodromy group of a linear equation, a set of transformations, not depending on arbitrary variable parameters, arising for one particular fundamental set of transformations, not depending on arbitrary variable parameters, arising for one particular fundamental set of transformations, not depending on arbitrary variable parameters, and t

$$\begin{array}{c|c}
N-C \\
C \\
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\end{array}$$
 $\begin{array}{c|c}
C \\
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C
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C
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A group of this order enters

into the structure of the purin bases and of uric acid. The group suggests the existence of a common mother-sub-

$$\begin{array}{c|c} N=CH\\ \hline \\ \text{stance of the composition HC} & C-NH\\ \hline \\ \parallel & \parallel\\ N-C-N \end{array} > CH, \text{ which has}$$

been termed purin.—Random group, a division of the Precambrian rocks of Newfoundland, consisting of sandatones, shales, and conglomerates, and lying immediately below beds of Precambrian age believed to contain organic remains. See Monable **lates.—Rartian group, the uppermost division of the Potomac series or Lower Cretaceous of the coastal belt in the eastern United States, equivalent in part to the *Albirupean group (which see).—Rationality group, in math., a linear homogeneous group of transformations every operation of which corresponds to a rational transformation of the solution of a resolvent equation.—Red Wall group, a name given by Powell to the Lower Carboniferous beds in the Grand Cafon of the Colorado.—Regular group, in math., a transitive group of the order n, on hetters.—St. Louis group, a division of the Eower Carboniferous or Missisappian series in the interior basin of the United States. Bee St. Louis timestone.—Rhemango group, in Mashadom of the Subcarboniferous or Missisappian series in the interior basin of the United States. Bee St. Louis timestone.—Rhemango group, in Mashadominant group, in redown the Kirby's system, those groups of insects which either never enter the tropics or those tropical insects whose range does not exceed 50° in the Old World or 35° in the New: in contradistinction to his predominant groups and dominant groups, in the first of which he includes group extending from the artic region, where vegetation ceases, to the equator, and in the second those which reach to the tropics but fall short of the polar circles.—Symmetric group, in math., a group containing all the n laubstitutions on nelements.—Theory of groups, in math., a branch of mathematical groups of operations or substitutions or transformations.—Tonic group, in the highly titled Algonitian beds below and the massive Eed Wall limestone of Lower Carboniferous age above. The series has a lower division, 300 feet thick, of red sandstones, containing Scotitus, and an upper division, 476 feet thick, of greenish sh

groupage (grö'pāj), n. [group + -age.] Grouping; arrangement in groups. B. Taylor.

group-breaker (gröp'brā'ker), n. In elect.. a switch or circuit-breaker, in a power-station. so arranged as to break simultaneously a group of circuits.

of circuits.

grouper, n. 2. Any one of many different fishes in different countries. The name is applied to different species of serranoid fishes resembling or supposed to resemble the serranoid fishes properly so named.—Black grouper. (a) See grouper. (b) The black jewfish, Garrupa nigrita. (c) Mycteroperca bonaci.—Mangrove grouper, a large fish of the family Serranada, Mycteroperca bondengeri. [Gulf of California.]—Poison grouper, Scorpæna plumieri, a fish found from Florida to Brazil.—Yellow grouper, a name given in the Galapagos Islands to the large grouper Mycteroperca offar.—Yellow-finned grouper, a large fish, Mycteroperca offar.—Yellow-finned grouper. [Florida.]

group-flashing (grop'flash'ing), n. The flashing of a light with varying periods between

ing of a light with varying periods between the flashes, as in lighthouses. The flashes of a group, two or three in number, are separated by very short intervals and each group is divided from the next group by a much longer period of darkness.

group-marriage (gröp'mar'āj), n. A form of marriage in which a group of men are considered the husbands of a group of women. Keane, Man Past and Present, p. 153.

group-mind (gröp'mind), n. In social psychol., the collective mind of a group, class, or society; the stock of beliefs, customs, attitudes, etc., common to the members of such a group.

Some have maintained that the promptings of the group-mind as felt by the individual belong in the unconscious or involuntary part of his nature, and partake of the character of mechanical necessity.

Brinton, Basis of Social Relations, p. 24.

group-type (gröp'tip'), n. The common mental and moral type, and the prevailing manner of a social group. E. A. Ross, in Amer. Jour. Sociol., VIII. 762.

Sociol., VIII. 762.
group-wife (gröp'wif), n. A woman who is one of a group considered to be the wives of a group of men. See *group-marriage.

Dr. Howitt says, "the germ of individual marriage may be seen in the Dieri practice; for as I shall show later on, a woman becomes a Tippa-malku wife before she becomes a Pirrauru or group-wife."

Nature, Jan. 5, 1906, p. 226.

group-will (gröp'wil), n. An agreement or concert of individual wills; the common purpose and determination of a social group. E. A. Ross, in Amer. Jour. Sociol., VIII. 762. group-wise (gröp'wiz), a. Directed upon the group-wise (gröp'wiz), a. Directed upon the group rather than the individual; pertaining to the interest of the group. E. A. Ross, Social Control, p. 28.

grous, n. Same as grouse. grouseberry (grous ber'i), n. The American

wintergreen or checkerberry, Gaultheria pro-cumbens. See wintergreen, 2.
grouse-locust (grous lō'kust), n. A locust or grasshopper of the subfamily Tettigins. J. B. Smith, Econ. Entom., p. 92.
grove-snail (grōv'snāl), n. A snail, Helix nemoralis

grow, v. i. 6. Of a crystal, to develop or en-large by the addition of molecules arranged in accordance with the laws of molecular attraction.—Growing pottery, earthenware or crockery which exhibits the phenomenon of a crystalline growth on its surface, caused by the chemical action of some of its constituents.

growing pains (grō-ing-pānz'), n. pl. Various indefinite pains about the joints, especially of the lower extremities, in children and adolescents.

growing point (grō'ing-point), n. In bot., the cone of growth at the tip of the stem, at which the apical cell is located and which is the seat of vegetative activity.

the seat of vegetative activity.

growth, n.—Apical growth. See *apical.—Basal growth. See *basal.—Cone of growth. See *cone.

— Determinate growth, growth which ends with a bud at the conclusion of the season.—Line of growth, in mollusks, especially bivalves, one of the concentric lines that mark the external surfaces of the shell and run parallel to the free margin. Each line represents a period of rest in the process of the formation of the shell.—Old field growth. See volunteer *growth.—Second growth, forest growth which comes up naturally after cutting, fire, or other disturbing cause.—Volume growth. See *increment, 6.—Volunteer growth, in forestry, young trees which have sprung up in the open, as white pine in old fields, or cherry or aspen in burned tracts.

growth-line (groth'lin), n. Any line which

growth-line (grōth'līn), n. Any line which marks a stage of growth in an organism: as, the growth-lines of a plant or of a shell.
growth-ring (grōth'ring), n. A line of growth.
See *growth.
growthy (grō'thi), a. [growth + -y¹.] Somewhat overgrown; of rather more than the usual growth a grow

size. [Colloq.]

She was easily third and Mr. Clough's growthy imported Merlin heifer Dorcas had to stand scaling down to fourth. Rep. Kan. State Board Agr., 1901-02, p. 194. grub, n. 4. In cricket, a ball bowled along



White Grub (Lacknosterna arcuata).

a, beede; s, pupa; c, mature larva. All natural size. (Chittenden, U. S. D. A.)

Also called, in the slang of the ground. Also called, in the slang of cricket, sneaker and daisy-cutter.—Jng-handle grub, the chryslis of any one of several large sphingid moths, as the tobacco-sphinx, or the tomato-sphinx [Local, U. S.]—White grub, the larva of any scarabeld beetle; especially of the Melolonthini, and the genus Lachnosterna. The white grubs of Lachnosterna and Cyclocephala or May-beetles do great damage to grass-land and to strawberry, potato, and other crops planted in old sod. Other well-known forms belong to the genera Allorhina or June-beetles Ligrus, and Cotalpa.

Grubbia (grub'i-s), n. [NL. (Bergius, 1767), named in honor of Michael Grubb, director of the Swedish East India Company and a patron of the ground.

the Swedish East India Company and a patron of science.] A genus of plants, constituting the family *Grubbiaceæ*. They are heather-like shrubs, with opposite, entire, linear or lanceolate, coriaceous leaves having revolute margins, and small flowers in clusters of three, the clusters borne singly in the axis of the leaves or congested in axillary cones. There are three species, all South African.

species, all south African. **Grubbiacese** (grub-i-ā'sē-ē), n. pl. [NL. (Endlicher, 1838), < *Grubbia* + -accs.] A family of dicotyledonous apetalous plants of the order Santalales, containing the single genus *Grubbia (which see).

*Grubbia (which see).
grub-fungus (grub'fung'gus), n. A fungus which attacks the grubs of buried insects and replaces the body of the larva with mycelium. The fruiting bodies of the fungus often develop from the head, giving a peculiar horned effect. The common American species is Cordycepe Ravenciic. C. Sinensis is used medicinally in China. See Cordycepe, with cut. grub-prairie (grub'prā'ri), n. Land full of roots requiring to be grubbed out. See the extract. [Upper Mississippi region.]

In grub-prairies in the Northwestern states, the soil is full of the roots of trees and bushes, often of the jack-oak, hazel, etc., that have been killed back to the roots by annual fires.

F. B. Hough, Elements of Forestry, p. 52.

by annual fires.

F. B. Hough, Elements of Forestry, p. 52.

grub-screw (grub'skrö), n. A set-screw having no head but simply a slot for receiving the screw-driver by means of which it is turned.

Jour. Brit. Inst. of Elect. Engin., 1902-03,

Britain.

p. 384.
grubstake (grub'stāk), v. t.; pret. and pp.
grubstaked, ppr. grubstaking. [grub-stake, n.] gule.
grubstaked, ppr. grubstaking, [grub-stake, n.] guaba (gwä'bä), n. [Porto Rican.] Same as
'*\squarana', 2.

some operation or undertaking, on condition
some operation or undertaking, on condition
sharing in the profits. See grub-stake, n.

American and W. Ind. guacamaya, a parrot.]

Alarga parrot-fish. Scarus Callyodon guacaof sharing in the profits. See grub-stake, n. Electrochem. Industry, March, 1904, p. 103. gruenerite, n. See *grünerite. gruff¹, n. 2. Crude or impure saltpeter, as imported from India.

Gru-gru worm. Same as gru-gru, 1.
grünauite (grü'nou-it), n. [G. Grünau+-ite².]
A complex metallic mineral containing sulphur, bismuth, nickel, etc.: perhaps only a mixture of the nickel sulphid polydymite with bismuthinite and other species: from Grünau,

grundy-swallow (grun'di-swol'ō), n. [A popular perversion of the original (AS. grundeswelge, properly gundeswelge) of groundsell, q. v.] The golden ragwort, Senecio aureus. grünerite (grü'ner-it), n. [Named after E. L. Grüner, who analyzed it.] An iron amphibole (FeSiO₃) occurring in brown fibrous forms. Germany.

grüneritization (grü ner-ī-ti-zā shon), n. [grüneritiz + -ize + -ation.] In petrog., the alteration of the minerals in a rock to grünerite or iron metasilicate in the form of amphibole.

rtinlingite (grün'ling-īt), n. [Named after Herr Grünling, a German mineralogist.] A compound of bismuth, tellurium, and sulphur, compound of bismuth, tellurium, and sulphur, perhaps Bi₄TeS₃. It resembles tetradymite. grunt, n. 3. Among the various fishes of the genus Hæmulon and family Hæmulidæ, so named, are the following: Black grunt, Hæmulon bonarienæ; boar-grunt, H. sciurus; French grunt, H. favotineatum; gray grunt, H. macrostomum; grunt blackfish, H. bonarienæ (see *blackfish): Margaret grunt, H. abum; open-mouthed grunt (same as French *grunt); red-mouthed grunt, Bathystoma rimator; striped grunt, Hæmulon macrostomum; white grunt, Bathystoma striatus (see also capeuna); yellow grunt (same as boar-*grunt). make the motion of the family Gryllidæ.

In aloum; open-mouthed grunt (same as French *grunt); red-mouthed grunt, Bathystoma rimator; striped grunt, Bathystoma rimator; striped grunt, Bathystoma striatus (see also capeuna); yellow grunt (same as boar *grunt).

grunter, n., 1. (c) A horse which has the habit of emitting a sound during expiration, when suddenly moved or startled.

Grusian (grö'zi-an), a. and n. [Russ. Gruziya, Georgia, + -an.] Same as Georgian².

gryllid (gril'id), n. and a. I. n. A member of the family Gryllidæ.

II. a. Of or belonging to the orthopterous family Gryllidæ.

gryochrome (gri'ō-krōm), n. [Seid to canary Islanda, is used for tubs, furniture, and interior woodwork.

guacin (gwä'sin), n. [guaco + -in².] An amorphous bitter principle obtained from the leaves of guaco.

guaco, n. 3. Same as *huaco.

guaco, n. 4. Seid *woodwork.

guacin (gwä-kō-kō'š), n. [Cuban.] A tree of the family Daphnaceæ, Daphnopsis Guacacoa, which yields a very strong, white bast-fiber.

gradil (gwä-del'), n. mexico, + -ite².] Sulphid of mercury (metacinnabarite) containing a small amount of zinc.

gryochrome (gri'ō-krōm), n. [Seid *to canary Islanda, n. [Guanche namount of zinc.]

Canary Islanda, production (gwä-del'), n. [Guanche namount of zinc.]

gryochrome (gri'ō-krōm), n. [Said to be formed (by Nissl) from Gr. γρῦ, taken in the sense of 'the dirt under the nail,' + χρῶμα, sense of 'the dirt under the nail,' $+ \chi \rho \tilde{\omega} \mu a$, color.] In neurol., a nerve-cell in which the chromatic substance exists in the form of

minute basophil granules which give the stained protoplasm a dusty appearance.

There is also a considerable number of cells in which the basephile substance is present as fine granules giving a blue dusty appearance to the cell body. These cells Nissl describes as "gryochromes."

F. R. Bailey, in Jour. Exper. Med., Oct. 1, 1901, p. 578.

gryphosis (gri-fō'sis), n. An incorrect form of gryposis.

Grypocera (gri-pos'e-ra), n. See *Netrocera, 2 Grypoceras (grip-os'e-ras), n. [Gr. $\gamma \rho \nu \pi \delta \varsigma$, curved, + $\kappa \epsilon \rho \alpha \varsigma$, horn.] A genus of ammonoid cephalopods or ammonites from the Triassic

Grypotherium (grip- δ -thē'ri-um), n. [NL., \langle Gr. $\gamma\rho\nu\pi\delta\varsigma$, curved, + $\theta\eta\rho i\sigma$, beast, in allusion to the claws.] A genus of extinct ground-sloths, related to and closely resembling Myboton, related to and closely resembling my-bodon and Megatherium. Some members of the genus were contemporary with early man in southern South America, and one species, G. listai, remains of which were found in a cave in Patagonia, is supposed to have been kept in a state of domestication.

G. S. An abbreviation (a) of Grand Scribe; (b) of Grand Secretary; (c) of Grand Sentinel; (d)

of Grand Sentry.

Gshelian (gshel'i-an), n. [Russ. Gshel('sk) a district in Russia, + -ian.] In geol., one of the divisions of the Carboniferous system on the continent of Europe which constitutes the marine type of the uppermost part of the system. The term 'Stephanian' is applied to the lagoon type of the same period. The Gahellan is better known as the *Uralian* from the high development of the formation in the Ural Mountains.

G-string, n. 2. A narrow strip of cloth worn

maia. It is characterized by deep-blue teeth and is found in the West Indies.

in the West Indies. guacamphol (gwä-kam'föl), n. [gua(iacol) + camph(or) + -ol.] An ester of guaiacol and camphoric acid. It is suggested as a remedy for the night-sweats of phthisis; also as an intestinal antiseptic. guacima (gwš'sē-mš), n. [Haytian name.] In Porto Rico, Guazuma guazuma, a handsome

tree of the order Sterculiaceæ, which has elm-like leaves and axillary clusters of amall yellowishsmall yellowishwhite flowers. The
fruit is an oval hard nut
having blunt projecting
tubercles all over its sur
face. On the Pacific coast
of Mexico the nuts are
made into a drink called
orchata de gudcima, to
which sugar and lemon
are usually added. They
contain nucliage and are
sometimes administered
as a remedy for gonorrhee.
The inner bark is also used
medicinally. It is muclwhite flowers.



The inner bark is also used medicinally. It is muci-laginous and is adapted for poultices. It is quite tough and has been used for cordage. The tree is admirably adapted for avenues. It may be repeatedly trimmed and soon sends forth a luxuriant growth of small branches which form a dense head. The young branches and fruit are much relished by cattle. The wood, sometimes called bastard cedar, is used for tubs, furniture, and interior woodwork.

mercury (metacinnabarite) containing a small amount of zinc.
guadil (gwä-dêl'), n. [Guanche name in the Canary Islands.] One of the shrubs which produce rhodium-wood, Convolvulus floridus. It is an ornamental shrub, from 4 to 6 feet high, the branches and linear leaves of which are covered with a white powder. The flowers are pure white, so that when the plant is in bloom it has the appearance of being covered with anowflakes.

See Hymenæa.

guaguanche (gws-gwsn'che), n. [Cuban.] A small barracula, Sphyrena guachancho, found in the waters of Cuba.

guaiacal (gwi'a-kal), n. [guaiac(um) + -al³.]
A little used name for crotonaldehyde, CH₃CH:

CHCHO, which is also called 2-butenal.

guaiacene (gwi'a-sēn), n. [guaiac(um) + -ene.]

Same as *guaiol, the incorrect name for *tiglic aldehude

guaiacetin (gwī-as'e-tin), n. [guai(acum) + acet(ic) + -in².] Pyrocatechin - monoacetic acid: used in medicine in about the same way

acid: used in medicine in about the same way as guaiacol. (gwi'a-kōl), n. Same as guiacol. guaiacolate (gwi'a-kō-lāt), n. [guaiacol + -ate¹.] A salt of guaiacol. guaiaconic (gwi-a-kon'ik), a. [guaiacum + -one +-ic.] Derived from guaiacum resin. - Guaiaconic acid, a resinous, levorotatory compound, C₃₅H₄₀O₁₀, which is obtained from guaiacum resin. It meltat 100° C., constitutes 70 per cent of the crude guaiacum resin, and turns blue in the presence of oxidizing agents. Also called a-resin.

guaiacyl (gwi'a-sil), n. [guaiac-um + -yl.] whitish amorphous compound, $(C_6H_3.0.CH_3)_2$ $(O_2C_a)(HSO_3)_2$, the calcium salt of guaiacol sulphonic acid: used as a local anesthetic.

guaiakinol (gwī'a-kin-ōl), n. [guaia(cum) + kina + -ol.] A guaiacolate of quinine.
guaiamar (gwī'a-mār), n. [guai(acol) + L.
amarus, bitter.] The glycerol ester of guaicol: used in medicine in about the same way

col: used in model...
as guaiacol.
guaiaperol (gwi-ap'e-rōl, n. [guaia(col) + (pi)per(idine) + -ol.] A crystalline compound, $C_5H_{11}N.(C_7H_8O_2)_2$, obtained by the action of piperidine upon guaiacol: used in

guaiaquin (gwī'a-kwin), n. [guaia(col) + quin(ine).] A yellowish solid of bitter taste consisting of quinine-guaiacol sulphonate, C₆H₃O₂.CH₃.HSO₃.C₂₀H₂₄N₂O₂: an odorless substitute for guaiacol.

guaiaquinol (gwi'a-kin-ōl), n. [guaia(cum) + quina + -ol.] Quinine bromguaiacolate. It is used in medicine.

guaiasanol (gwi'a-sa-nōl), n. [guaia(cum) + L. (1) sanus, sound, + -ol.] Diethyl-glycocoll-guaiacol hydrochlorid. It is soluble in water, and is used in the same way as guaiacol.

Guaiasanol.. was introduced by E. Einhorn and Hütz as a soluble form of guaiacol. It crystallizes in white prisms, having a faint odor and a saline, bitter taste.

Buck, Med. Handbook, IV. 425. guaiene (gwī'ēn), n. [guai(acum) + -ene.] A pale blue fluorescent hydrocarbon, C₁₂H₁₂, prepared by the distillation of guaiacum resin with zinc dust. It sublimes and forms brilliant plates, which melt at 97-98° C.

guaiol (gwi'ōl), n. [guai (acum) + -ol.] 1. Same as *tiglic aldehyde.—2. Same as *champacol. guajica (gwä-hē'kä), n. [Cuban.] Pæcilia guano: used as a fertilizer. guano in Cuba.

Tuba.

Some as *champacol. guano: used as a fertilizer. guano is used as a fertilizer. guano is used as a fertilizer. guano biliary (gwä'nō-bil'i-ā-ri), a. [guano + biliary.] Noting a biliary acid, which probably belongs to the glycocholic-acid group, found in Peruvian guano.

Some as *tiglic aldehyde.—2. Same as *champacol. guano: used as a fertilizer. guano-biliary (gwä'nō-bil'i-ā-ri), a. [guano + biliary.] Noting a biliary acid, which probably belongs to the glycocholic-acid group, found in Peruvian guano.

guako (gwä'kō), n. [From one of the pueblo languages of New Mexico, prob. Tehua.] A vegetable dye used by the Pueblo Indians to paint their pottery black. It is probably obtained from the root and stalks of a species of Artemisia.

guama (gwä-mä'), n. [Porto Rican and Vene-zuelan.] A tree of the mimosa family, Inga laurina, extensively used in the West Indies and in Venezuela and Colombia as a coffee

and in Venezuela and Colombia as a coffee shade-tree. It bears broad, bean-like pods, with an edible, sweet, fluffy pulp. guamacho (gwä-mä'chō), n. [Native name in Venezuela.] A tree, Pereskia Guamacho of the cactus family, 12 to 15 feet high, which bears yellow flowers and branches covered with long, straight spines. When planted in rows it forms impenetrable hedges. It yields quantities of a pale brown gum, which dissolves completely in water. [Venezuela.]

guamo (gwä-mō'), n. [Venezuelan.] Same as

*guama.
guamuchil (gwä-mö-chēl'),n. [Mexican guamuchil, huamuchil, guamachil, < Aztec quamochitl.] A tree, Pithecolobium dulce, which bears abruptly pinnate leaves and pods which contain a sweet edible aril surrounding the seeds. [Mexican.] See *kamachiles.

guaethol (gwä-eth'ol), n. [gua(iacum) +eth(er) guana², n. [Cuban.] 2. The name in Cuba for the lace-like inner bark of the blue or [Cuban.] 2. The name in Cuba for the lace-like inner bark of the blue or mountain mahoe, Pariti elatum, a malvace-ous tree 50 to 60 feet high. The fiber is obtainable in broad bands up to 12 or 15 inches wide. Formerly it was much used for tying up bundles of cigars; its place for this purpose, however, has been taken by specially woven silk bands. It is extensively used in the United States and Europe for making women's hats and millinery trimmings. Commercially known as Cuba bast.

guanacaste (gwä-nä-käs'tā), n. [Costa Rican.] Same as *aŭanacaztli.

guanacaztli (gwä-nä-käs'tlē), n. [Mex. gua-nacaztli, < Nahuatl quauhnacaztli, 'ear-tree,' < quauitl, tree, + na-caztli, ear.] The ear-

drop tree or ear-pad tree. Enterolobium cyclocarpum, a large, handsome tree of the



cyciccarypum, is large, handsome tree of the mimosa family. It has wide-spreading symmetrical branches, twice-pinnate leaves, globular heads of flowers, and peculiar pods shaped like a human ear, the inner suture of the legume being very much contracted and the outer forming the periphery of a circle, so that the rounded top of the pod meets the rounded base. The pods contain a sweetish pulp surrounding the hard seeds and are eaten by cattle, by means of which the undigested seeds are dispersed without losing their vitality. At Colima, Mexico, the natives use the seeds in times of scarcity as a substitute for maize. The wood is used for troughs, cances, and in house-building, and the pods and bark are rich in tannin and are used as a substitute for soap in washing. Also called conaccaste and guaraccaste.

guanase (gwa'nās), n. [guan(ine) + -ase.] An autolytic ferment which causes the transformation of guanine to xanthin.

guanazole (gwis na-zōi), n. [guan(ine) + az-(ote) + -ol.] A colorless compound, NH — C(NH)

which crystallizes in mono-C(NH)NH

clinic prisms, and melts at 206° C. It is a feeble base, gives a deep red color with ferric chlorid, and is also called 3, 5-diamino-1, 2, 4-

guandee (gwän-de'), n. Same as *gandul. guanidin (gwä'ni-din), n. [guan(ine) + -id + -ine².] A strong crystallizable base, CH₅N₃, which results on oxidation from guanine. In combination with ornithin, as arginin, it represents one of the most constant decomposition-products of the albuminous molecule.

guanimin (gwä'ni-min), n. [guan(ine) + imine.] A basic substance which is formed by the action of heat upon a guanidin salt of

guano-horn (gwä'nō-hôrn), n. A tin tube about 3 feet long and 2 inches in diameter, used in applying guano and similar fertilizers to plowed land. U. S. Dept. Ag., Bulletin 33,

1896, p. 194. guanoline (gwä'nō-lin), n. guanoline (gwä'nō-lin), n. [guano + -ol + -ine².] A colorless compound, HN:C(NH₂) NHCOOC₂H₅, formed from guanidin and ethyl chlorearbonate. It crystallizes with $\frac{1}{2}$ H₂O in trimetric laminæ, melting at 100° C. Also called guanolene and ethyl guanadinecarboxylate.

guanylic (gwä-nil'ik), a. [guan(ine) +-yl+-ic.]
Noting a nucleinic acid, C₄₄H₆₆N₂₀P₄O₃₄, obtained from the pancreas.
guao (gwä'ō), n. [Cuban Sp., of native origin.]
A West Indian tree of the cashew family,
Conocladia dentata. Its edible fruit is known as maiden-plum (which see). In Mexico the name is applied to several plants with acrid juice which causes eruptions of the skin, especially to the poison-oak (Rhus Toxicodendron) and Comocladia Engleriana, which are also called tetlatia.

guaparanga (gwä-pä-räng'gä), n. [Braz.] See Marlieria.

guapena (gwä-pā'nä), n. [W. Ind. ?] Same as ribbon-fish.

guaperva (gwä-per'vä), n. [Pg. (Lacerda).]
A trigger-fish of the genus Balistes.
guapinol (gwä-pē-nōl'), n. [Mex. Sp., < Nahuatl quauitl, tree, + pinolli, a kind of flour.

guar (gwär), n. Same as gouaree.
guara³ (gwär'rä), n. [Cuban Sp., from a native
name.] In tropical America, several species
of Cupania, trees of the family Sapindaces.

There is a dry mealy pulp surrounding the seeds.] The courbaril, Hymenæa Courbaril.

of Cupania, trees of the family Sapindacez, having pinnate leaves and racemes or panicles of small flowers. In Porto Rico C. Americans funishes a wood which, though soft, is susceptible of a heap polish. Its fruit is a three-celled capsule which opens on ripening and displays its black seeds with yellow and about their base. Guara blanca, or guara de costa, is C. glabra, a species common in the West Indies, and guara colorado, or guara macho, is C. macrophydia, a Cuban species. In Jamaica the timber of these trees is called lobiolity-wood.

guarabu, n. 2. A large tree of the family Cæsalpiniaceæ, Peltogyne confertiflora, which yields a useful wood and from the bark of which a fine red dve is obtained.

which a fine red dye is obtained.

guaracha (gwaracho, huarache.]

1. A kind ci
sandal used by the Mexicans and the Indians
of Mexico.—2. A graceful Spanish dance, or
the music for it.

guaraguao (gwä-rä-gwä'o), n. [Porto Rican.] guaraguao (gwä-rä-gwä'ō), n. [Porto Rican] In Porto Rico, a name of several trees of the genera Trichilia and Samyda, of the mahogany family. The most important is S. Guidonia, the hard red wood of which resembles mahogany but is cruegrained and has larger pores. It is used in constructive and for furniture. The tree has abruptly pinnate leaves and axillary clusters of white flowers followed by reddishbrown, capsular fruit. T. spondioides, known as whibitter-wood in Jamaica, furnishes timber for construction, and for making carts, boats, and farm implements. Set Trichilia and Samyda.

guard, n., 3. (g) In foot-ball, basket-ball, and guard, n., 3. (g) In foot-ball, basket-ball, and similar games, a player occupying a certain position. In foot-ball there are two guards, who pay on either side of the center rush: in basket-ball the guard prevents the opposing forward from throwing goals.—Guards or guardians of the pole, the two stars & Kochab) and y in the constellation of Ursa minor—Main guard. (a) Milit: (1) See guard. (2) The guard from which all the other guards are detached. (3) A guard chosen from the troops of a garrison under which all drunkards, etc., are placed. (4) See main! (b) In fort., the keep of a castle; the lodging of the main guard.—To give guard, in cricket, of the umpire, to inform the bataman, when he holds his bat uprich: before the wickets, which of the three stumps the bat covering.—To run the guard. See *run1.—To take guard, in cricket, of the bataman, to ask the umpire as the bat is held upright before the wickets, which of the three stumps it is defending. guarda-costa (gär'dā-kōs'tā), n. Naut. a Spanish gunboat mostly employed against

guarda-costa (gär'dä-kōs'tä), n. Naut. x Spanish gunboat mostly employed against smugglers; a coast-guard vessel. guard-bolt (gärd'bolt), n. In a mowing-ma-chine, the screw-bolt used to fasten the finger-

guards in place. See moving-machine. guard-book, n. 2. Naval, a book in which are entered the orders and official information received by the boarding-officer of the guardship of a fleet or squadron. guard-detail (gärd'dē-tāl'), n.

The squad detailed from a company for guard-duty. Guardians of the pole. See ★guard.

guard-iron (gärd'i'ern), n. 1. pl. See guard-irons.—2. An iron strap placed along the outside edge of the wheel-guard of a paddle-steamer.—3. A guard or fender attached to the front end of an English locomotive.

guard-lamp (gard'lamp), n. In telephony, an incandescent lamp in a central station so connected as to serve as a signal or indicator to nected as to serve as a signal or indicator to prevent mistakes on the part of an operator. Elect. World and Engin., Dec. 12, 1903, p. 966. guard-leaf (gärd'lēf), n. A leaf that grows between the clusters of a blossom of a double hollyhock. Stand Dict. guard-lock (gärd'lok), n. 1. A lock placed at the junction of an artificial canal with the

sea or other natural body of water whose level is subject to an extent of fluctuation undesirable for the canal. When boats are required to enter or leave the canal while a difference of level prevails between the water in the canal and outside, a pair of locks is necessary: otherwise a single lock is sufficient.—2. Any lock used to guard a keyhole or to guard another lock, as in the locks of the boxes of a safe-deposit vault, where the key to the guard-lock may be held by the attendant of the vault and the key of the box by the renter, both keys being used to open the box. See dupler *lock.
guardo (gär'dō), n. A receiving-ship or -vessel
on which enlisted men are temporarily quatered until drafted to sea-going vessels. [Naval

sailors' slang.]
guardo-move (gär'dō-möv), n. Naut., a trick
played upon a landsman on a receiving-ship.

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plate

plate.
guard-polyp (gärd'pol'ip), n. In some hydroid polyps, as Plumularia, a tentacle-like projection of the comosarc, bearing threadcells, or adhesive globules, and surrounded by a hydrotheca. It has, probably, a nutritive function, serving to catch food. Also nematophore, sarcotheca, and machopolyp.
guard-rail, n. 2. Naut., a fore-and-aft timber bolted on the outside of the covering-board or plank-sheer on graem-vessels navigating har-

plank-sheer on steam-vessels navigating harbors, lakes, and rivers, to act as a fender when lying alongside of other vessels, or when made fast to a dock. Sometimes a second guard-

rail is carried along the sides just above the water, and is then called a bilge guard-rail.

guard-ring, n. 2. In elect., an annular metal plate which surrounds the attracted disk of an electrometer and is maintained at the same potential as the disk.

guard-strap (gard'strap), n. A strip of sheet-iron arched above the top of a driving-wheel of a locomotive.

of a locomotive.

guard-wire (gärd'wir), n. In electric railway construction, a wire stretched above the trolley-wire to prevent its coming in contact with other and still higher wires. Jour. Brit. Inst. of Elect. Engin., 1901-02, p. 91.

Guareschi and Mosso's base. See *base2.

guarinite (gwä'ri-nit), n. A calcium titanosilicate which occurs in yellow tabular crystals at Monte Somma, near Naples.

Guarnieri body. See *body and *Cytoryctes.

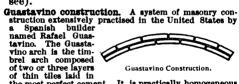
guarri (gwä'ri), n. [Hottentot name.] In South Africa, the fruits of any one of several shrubs belonging to the genus Euclea of the ebony family, especially of E. undulata, the

snrubs belonging to the genus Euclea of the ebony family, especially of E. undulata, the edible red fruits of which are esteemed by the Hottentots. See *Euclea?.

guarumo (gwä-rö'mō), n. [Also guarumbo; from a native name.] In tropical America, several trees of palm-like aspect with slender trunks surmounted by a great of large learner. trunks surmounted by a crest of large leaves, especially various species of *Cecropia*. In Mexico the name is applied to *C. peltata* and

C. Mexicana. guasa (gwä'sä), n. [Cuban.] The great jew-

guasa (gwa'sa), n. [Cuban.] The great jewfish of the West Indies, Promicrops itaiara.
guaseta (gwä-sā'tā), n. [Cuban Sp.; dim. of
guasa.] A small sea-bass, Alphestes afer, of the
family Serranidæ. [Cuba.]
Guastalline (gwä'sta-lin), n. [It. Guastalla,
name of the foundress.] A member of a
female religious order founded in 1534 by Countess Guastalla, and known as Angelicals (which
see)



the most perfect cement. It is practically homogeneous like an egg-shell and capable of resisting great pressure. Guate. An abbreviation of Guatemala.

guativere (gwä-te've-ra), n. [Cuban guatibere, from a native West Indian name (Pichardo).]



Guativere (Cephalopholis fulvus punctatus). (From Bulletin 47, U. S. Nat. Museum.)

A name of several fishes of the West Indies; specifically, a serranoid fish, Cephalopholis fulcus, of a bright red, yellow, or brown color, with blue spots, ranging from Florida to Brazil. Also called guativere amarilla.—Black guativere. Same as nigger-fish.—Red guativere, Cephalopholis fulcus ruber, a serranoid fish found in West Indian waters. It is scarlet in color and inhabits shallow water.

in coffee-plantations. See Inga and coco-wood.

2.— Cattley guava, Psidium Cattleyanum, a shrub or small tree, from 10 to 20 feet high, native to Brazil. It has leather, glossy, evergreen leaves and round, claretred, acid fruits an inch in diameter, with a strawberry-like fragrance and flavor. It is cultivated in California and Florida for its fruit, which makes fine jelly. Called also strawberry-guava, purple guava, and in Brazil araça de Praya. A dwarf variety, with larger, yellow, sweeter fruits, is called yellow Cattley guava, yellow strawberry-guava or Chinese guava, to guava, evellow Cattley guava.—Trench guava. (a) The pear-shaped variety of the common guava. (b) In Barbados, the ringworm-shrub, Herpetica alata.—Hill-guava, the hill-gooseberry.—Mountain-guava. See spice-spuava.—Purple guava. Same as Cattley *guava.—Spice-guava, a West Indian tree, Psidium montanum, bearing globoe, aromatic berries about half an inch in diameter. Called mountain-guava in Jamaica.—Strawberry-guava. Same as Cattley *guava.

guava-berry (gwä'vä-ber'i), n. In the West Indies, a small tree of the myrtle family, Eugenia lineata, which bears juicy red fruits of the size of cherries, which are eaten raw, pre-served, or made into cordial.

Guavina (gwā-vē'nā), n. [Cuban.] 1. A genus of gobioid fishes found in fresh waters of the West Indies and Brazil: typified by G. guavina, of the rivers of Cuba.—2. [l. c.] A name apof the rivers of Cuba.—2. [l. c.] A name applied in Cuba to the elongate, flat-headed gobios.— Guavina hoyera, Awaous banana, a gobioid fish found in fresh waters on both coasts of tropical America.—Guavina mapo, Dormitator maculatus, a gobioid fish found on both coasts of tropical America.—Guavina tetard, Electris pisonis, a gobioid fish found in streams in the West Indies and south to Rio Janeiro.

Brazil and northern Argentina, either of two trees belonging to the myrtle family, Eugenia Guabiu and E. pungens. Both yield edible fruits.

guayima (guë-shē'mä), n. [Tupi guaxima, guajima.] The name in Brazil of a malvaceous plant, Urena lobata, yielding a useful fiber. See *aramina, *Cæsar-weed and Urena. guayaba (gwë-yë'bë), n. [Sp.] Same as guava.

Also guayava.

guayacan (gws-ys-kšn'), n. [S. Amer. ?] 1. The lignum-vitæ, Guaiacum officinale and G. sanctum.—2. In the southwestern United States and Mexico, a shrub or small tree, Porlieria angustifolia, closely related to the lignumvitse.—3. In Argentina, a large leguminous tree, Cæsalpinia melanocarpa, yielding a very hard, heavy wood which resembles lignum-vitæ except that it is of a reddish-black color. Its fruits are used for tanning and dyeing in the same manner as divi-divi.—4. In Panama, a

same manner as aut-cuts.—4. In Fanama, a bignoniaceous tree, Tecoma Guayacan. guayava (gwä-yä'vä), n. Same as guava. guayavi (gwä-yä'vö), n. [Native name.] In Argentina, a large tree of the borage family, Patagonula Americana. It yields a soft and coril reaches a soft a so easily worked useful wood.

guayavita (gwä-yä-vö'tä), n. [Sp. dimin. of guayava.] In Porto Rico, the bayberry, Pimenta racemosa (Caryophyllus racemosus of Miller), the leaves of which yield bay-oil, the source of bay-rum. See bayberry, 3, and Pimenta2.

guayrote (gwī-rō'tā), n. [Porto Rican.] A tree of the family Sabiaceæ, Meliosma obtusifolia, native to Porto Rico. It is generally distributed throughout the island and is valued for its wood, which is much used locally. Called also aguacatillo.

guazu (gwä-sö'), n. [Guarani guaçú, 'deer.']

The marsh-deer of South America, Odocoileus

or Blastocerus campestris.

or Biastocerus campestris.
guazuti (gwä-sö-tē'), n. [Guarani guaçuti,
'deer of the field.'] The pampas-deer of South
America, Odocoileus or Blastocerus campestris.
gubat (gö'bät), n. [Tagalog.] A forest.
gubbin, n. 3. pl. [cap.] The almost wild inhabitants of Dartmoor, England.
Gubbio pottery. See *pottery.
Gubernacular cord. See *cord1.— Gubernacular sac.
Same as gubernaculum, 2.

guard-pile (gärd'pil), n. A pile driven in a guatucupa (gwä-tö-kö'pä), n. [Pg., from a waterway near and in front of a dock, pier, abutment, or other structure, for the purpose of protecting the latter from injury by shipping or heavy floating bodies.

guard-pin (gärd'pin), n. In a small firearm, a pin used to fasten the trigger-guard.

guard-plate, n. 2. A curved plate used to prevent a flexible disk-valve from opening or lifting beyond the distance limited by the lolate.

guard-pile (gärd'pil), n. A pile driven in a guatucupa (gwä-tö-kö'pä), n. [Pg., from a guemul (gā-möl'), n. [Sp. guemul, from a S.

Amer. native name.] A species of South American deer of medium size, usually placed in the genus Furcifer. There are two species, F. chilensis and F. antisionsis, which range along the Andes from Feru to Patagonia. They are characterized by the antient of the family Mimosaceæ, used as a shade-tree date of the family Mimosaceæ, used as a shade-tree date of the family Mimosaceæ, used as a shade-tree of the family Mimosaceæ, used as a shade-tree date of the family mimosaceæ, used as a shade-tree of the family mimosaceæ, used as a shade-tree date of the family mimosaceæ, used as a shade-tree of the famil

guenon (gwe-non'), n. [F.] A French name, very generally adopted as a book-name, for the old-world monkeys of the genus Cercopithecus.

guerepo (ge-rā'pō), n. [Mex.] An atherinoid fish, Chirostoma grandocule, found in Lake Pátzcuaro, Mexico.
gueridon (gā-rē-doh'), n. [F., from the name of a character in a farce.] A small round table used for mounting vases or objects of art. Sometimes made in bronze or silver:

art. Sometimes made in bronze or silver: usually with a single stem and tripod base. Guernsey, n. 3. [cap.] A breed of dairy cattle, named from the island of Guernsey in the English Channel. It is slightly larger than the Jersey, lacks the black markings about the face, and has the inside of the ear yellow. guerre de course (gär de körs'). [F. 'war of roving' (privateering).] Commerce-destroying.

ing.
guest-ant (gest'ant), n. An ant which lives as
a guest in the colony of another species, as the European Formicoxenus nitidulus, which lives as a guest in the colonies of Formica rufa. Cambridge Nat. Hist., VI. 159.

guest-bee (gest'bē), n. A bee which lives as a guest or inquiline in the nests of another bee:

thus the bees of the genus Psithyrus are guests in the nests of bumble-bees.

guesting (gest'ling), n. [A perversion of guesting, with substitution of -ling for -ing1.] Formerly an annual assembly of the representatives of the corporation of the Cinque

guest-wasp (gest'wosp), n. A wasp of the family Masaridæ: so named by Comstock because it is supposed that all of the species of this family are inquilines.

guevarism (gā-vār izm), n. The euphuistic literary style which originated in imitation of that of the Spanish writer Autonio de Guevara (1490-1545).

(1490-1040).

At the close of Berner's 'Golden Boke' is a passage applauding the "swete style" of "the sentences of this booke."... Most probably this "envoy" in praise of Guevarism was written by Sir Francis Bryan.

S. L. Lee, in Athenseum, July 14, 1883, p. 50.

guevarist (gā-vār'ist), n. An imitator of the literary style of Antonio de Guevara.

literary style of Antonio de Guevara.

guglia (gö'lyä), n. [It. guglia, orig. aguglia, a needle, an obelisk, etc., < ML. acucula, L. acicula, a needle: see acicula, aiguille, aglet.]

In Ital. arch., a decorative obelisk, or upright shaft, used as a monument.

Guiana chestnut. See *chestnut.

Guiano-Brazilian (gēš'nō-bra-zil'ian), n. In zoōgoog., a subregion proposed by Sclater which includes the greater part of South America, east of the forests of the Andes, between the Isthmus of Panama and lat. 30° S., as well as Trinidad. Trinidad.

guib (gwib), n. [See guiba.] The harnessed antelope, Tragelaphus pictus.

Guichen shales. See *shale².

guide, n., 6. (e) pl. In an engine, the rods on which, or the surfaces between which, the cross-head of the piston slides: usually called cross-head guides.

8. In surg.: (a) A filiform bougie passed through a stricture of the pustons.

through a stricture of the urethra or through a stricture of the urethra or other canal, over which a tunneled sound of larger size is passed. See tunneled. (b) A sound, grooved in its convexity, which is passed through the urethra into the bladder and against which the point of the knife is directed in operations upon the prostatic urethra. guide-blade (gid'blad), n. A vane or blade, usually thin, placed in the path of a fluid to guide it in a certain direction. Such guide-blades are used in steam and water turbines properly to direct the current of steam or water against the moving blades. guide-board (gid'bord). n. A hoard contain-

gudgeon¹, n. 4. Eleotris coxii, a gobioid fish of New South Wales. gudok (gö-dök'), n. [Russ. gudôkŭ.] A simple form of viol, used in Russia, having three strings, two of which serve only as drones. gudder-rose. n.—Maple or maple land and the strings of the serve o

strings, two of which serve only as urones.

guelder-rose, n.— Maple or maple-leaved guelder-rose, the maple-leaved arrow-wood, Viburnum acert.

folium.—Virginian guelder-rose, the ninebark, Opulaster opulifolius.

summabilite. n. See *gümbelite.

blade.

guide-fossil (gīd'fos'il), n. A fossil species regarded as specially characteristic of a given geological formation, horizon, or fauna; an index-fossil.

guide-iron (gid'i'ern), n. A piece of iron rod which, having been bent to the contour of a curved pipe-pattern, is used as a guide by which the core-maker strickles up its core without the use of a core-box. Lockwood.

guide-lay (gid'lā), n. See *side-lay.
guide-mill (gid mil), n. A rolling-mill in
which the smaller sizes of iron or steel bars are rolled. It is fitted, in front of the passes, with guides, so that the billets or rods shall be presented correctly to the nip of the rolls.

rectly to the nip of the rolls.

guide-pin (gid 'pin), n. 1. A pin that perforates or defines the position of paper in the process of printing, to guide the proper placing of the sheet for following impressions on that paper.—2. One of a set of pins used to hold the hub and felly of a wheel in a concentric position while they are being worked.

guide-plate (gīd'plāt), n. 1. In textile manuf.,
an iron plate, perforated with holes, for guiding several ends of sliver through the drawing-frame. Nasmith, Cotton Spinning, p. 173.—2. A plate which holds the axle-box of a locomotive in position longitudinally, while permitting it to slide up and down.

guide-pulley, n. 2. In oval-turning, a pulley for driving the guide or model at the same speed as the blank which is being turned. guide-ring (gid'ring), n. In angling, a metal ring attached to a fishing-rod, through which

the line runs.

guide-straight (gid'strat), n. In projective geom., any straight of one ruled system on a ruled surface with reference to another ruled system (of which it is said to be a guide-

guide-wheel (gid'hwēl), n. A wheel which is provided for the purpose of guiding a moving structure, rather than of supporting its weight;

a pilot-wheel.

The boats are furnished with a hinged device at both ends and provided with guide-wheels to roll on, and at each side of the outer rall, so that they are kept at a proper distance from the track.

Sci. Amer. Sup., April 18, 1903, p. 22214.

Guignardia (gwig-nār'di-ā or gēn-yār'di-ā), n. [NL. (Viala and Ravaz, 1892), named for

Manual Control

L. Guignard, a French bota-nist.] A genus of pyrenomyce-tous fungi of fungi the family Mycosphærellaceæ.
The perithecia are membranous and are embedded in the tissue of the the tissue host; the spores are ellipsoid or spin-die-shaped and hyaline. The species are numerous, occurring chiefly on leaves. The pycnidial condition of some species is known to corrected the species of some species is known to correspond to species of Phoma of the Fungi Imperfecti. G. Bidwellii causes one of the most destructive diseases of the grape, known as black rot. See rot, 2 (b), and grape, and the species of the grape, the second Phoma of the Fungi
Imperfecti. G. Bidwellit causes one of
the most destructive
diseases of the grape,
known as black rot.
See rot. 2 (b), and
grape-rot.
guild-tree(gild'
trē), n. The
European

Guignardia Bidwellit.

a, portion of epicemis of a grape showingleatmous worm-like masses (enlarged);
b, portion of a pycnidium showing free
spers and the basidia upon which they
were borne (highly magnified); c, section
of a mature ascigerous perithecum showing
numerous asci (highly magnified); d, two
magnified); c, separate ascospores (highly
magnified); c, separate ascospores (more
highly magnified).

European barberry, Berber United States

Berberis vulgaris, naturalized in the

Guignardia Bidwellii.

Guillaume alloy. Same as *invar.

guillotine, n. 4. A machine for breaking iron by means of a falling weight.

guillotine-shears (gil'o-ten-sherz), n. A heavy type of shearing-machine: used principally for the cutting up of puddled bars and slabs ready for piling. The shears are similar to those of ordinary shearing-machines, but are parallel to the plane of machine framework instead of being set transversely. Lock-

Guilty ball. See *ball1.

guinara (ge-nā'rā), n. [Philippine Sp., from an undetermined native name.] In the Phil-ippine Islands, a rather coarse stiff cloth made from the fibers of Manila hemp. Gaz. Philip-

pine Is., 1902, p. xxxiv. ruinea, n. 4. An Italian. [Slang, eastern guines, n. 4. An Italian. [Slang, eastern U. S.]—Military guines, the English guines of 1813.

— Third of a guines, an English gold coin, of the value of seven shillings, struck in the time of George III.

guinea-boat (gin'ē-bōt), n. A fast galley, pro-

gle gold across the English Channel.

guines-fowl, n.—Guines-fowl wood, either one of two small trees of the family Myrinaces, Badula Bar-thesia and B. insularis, natives of Mauritius: so called from the glandular punctate leaves and dotted flowers. guinea-keet (gin 'ē - kēt), n. A guinea-hen. [Southern U. S.]

guinea-pig, n. 4†. A junior midshipman in the East India service.—Abyssinian guinea-pig, a fanciers' name for a rough-coated breed somewhat larger than the ordinary guinea-pig.—Peruvian guinea-pig, a modern breed with long, sliky hair.
guinea-red (gin'ē-red), n. See *red¹.
guinea-violet (gin'ē-vī'ō-let), n. See *violet¹.

Guipure d'art, linen net upon which are worked raised patterns.—Guipure de Flanders, a pillow-lace of the guipure-lace order, ornamented with floral designs con-nected by bars and brides.

guisaro (gē-să'rō), n. [Native name.] In Central America, a tree of the myrtle family, Psidium molle. related to the guava. It bears ium molle, related to the guava. It bears small, acid fruits having the flavor of straw-

guitar-fiddle (gi-tär'fid'l), n. An early form of viol, preceding the violin, the body of which was flat like that of a guitar. It had five strings, of which the two highest were usually tuned in unison.

guitar-fish (gi-tär'fish), n. A shark-like ray of the family Rhinobatidæ, inhabiting warm seas; specifically, Rhinobatus productus. guitar-plant (gi-tär'plant), n. Tricondylus

guitar-plant (gi-tär'plant), n. Tricondylus inctorius, a small Tasmanian shrub of the family Proteaceæ, often cultivated for its orna-mental foliage. The mealy dust which clothes mental foliage. The mealy dust which clothes the seeds yields a rose-colored dye when in-

guitarro (gō-tšr'rō), n. [Sp., < guitarra, a guitarr] The Spanish name of Rhinobatus percellens and of other species of guitar-fish. guitar-violoncello (gi-tšr'vō'ō-lon-chel'ō), n.

fused in water.

Same as *arpeggione.
gulash (gö'lash), n. [Also goulash, goulasch,
etc., < Hung. gulyas-hús, lit. 'shepherd's meat';
gulyas, shepherd, herdsman(< gulya, herd); hús,
flesh.] A Hungarian stew of beef, veal,

potatoes, etc., highly seasoned.

guldan, (gul'dan), n. [Pers. *guldan, \langle gul, flower, rose, + dan, holding.] A Persian flower-vase, one form of which is provided with several tubes arranged around the central open-

gulden, n.— Gold-gulden, a gold florin current in Germany and the Low Countries from the fifteenth to the eighteenth century.—St. Andries gulden, a gold coin of the count of Holland in the fifteenth century.—St. Maartens gulden, a gold piece struck by the bishops of Utrecht in the fifteenth century.

gulix (gū'liks), n. [Pl. of Gulik (sc. linens), so called from D. Gulik, G. Jülich (F. Juliers), a town in Prussia.] A linen fabric of fine texture med factors. ture used for shirts.

gull?, n.—Franklin's gull, Larus franklini, a small species which has, in the breeding plumage, a hood of dull black encircling the head and upper neck, and the blue of the back darker than in Bonaparte's gull. It is about 14 inches long and 35 in spread of wing. Abundant in the central and western United States.

gulleter (gul'et-er), n. In angling, a tool for extracting a fish-hook from a fish's gullet.

gullet-tooth (gul'et-tôth), n. In a circular saw having inserted teeth, a single tooth adapted to a gullet-saw blade. See gullet-saw. gull-grass (gul'gras), n. The goose-grass, Ga-

ilium Aparine.
gully!, n. 3. A catch-basin.
gully-drain (gul'i-drān), n. A pipe or drain
which extends from a street drainage catch-

basin, catch-pit, or gully.
gully-drainage (gul'i-dra'nāj), n. The drainage-water, sewage, or other refuse water passing through a gully.
gully-raker (gul'i-ra'ker), n. 1. A long whip.

As the day wore on, they overtook bullock-drays lurching along heavily, . . . the driver appealing occasionally to some bullock or other by name, following up his admonition by a sweeping cut of his "gully-raker," and a report like a musket-shot.

A. C. Grant, Bush-Life in Queensland, I. 40.

2. A cattle-thief. [Australian slang in both senses.]

gully-root (gul'i-röt), n. In the West Indies, the roots of the guinea-hen weed, *Petiveria* alliacea, which are used locally as medicine. See Petiveria.

gully-squall (gul'i-skwâl), n. A violent wind of short duration, from the mountain ravines of tropical America, sometimes experienced in the Pacific Ocean.

guloc (gö'lok), n. Same as machete.

pelled by oars, used in former times to smug-gulonic (gū-lon'ik), a. [gul(ose) + -one + -ic.] Related to gulose.—Gulonic acid, a colorless conpound, $C_6H_{12}O_7$, isomeric with dextronic acid. It passes very rapidly into its anhydrid, $C_6H_{10}O_6$.

gulose (gū'lōs), n. [Formation not ascertained.] A colorless syrupy sugar, C₆H₁₂O₆ unfermentable by beer-yeast. It is produced unfermentable by beer-yeast. It by the reduction of gulonic acid.

gulper (gul'per), n. A deep-sea eel, Sacco-pharynx ampullaceus, and other species of the



Gulper (Saccopharynx a n Bulletin 47, U. S. Nat. Museum.)

family Saccopharyngidæ, remarkable for the extraordinary extension of the gape.

gulpin (gul'pin), n. [Perhaps orig. *gulpis, one who would 'gulp in' or swallow anything told him.] One who swallows without question whatever he hears; a simpleton or credu-lous person; among sailors a 'marine.'

one who would 'gulp in' or swallow mything told him.] One who swallows without question whatever he hears; a simpleton or credulous person; among sailors a 'marine.'

gum2, n.—Alk gum. Same as Chian turpentise. See Chian.—Amrad gum, a white, yellow, or brown substitute for gum arable obtained from the Abyssinian highlands, probably derived from Acade accorpiodes. It has sweetian taste and a resinous smell.—Animal gum, a complex organic substance, obtained from mucin, which on decomposition yleids a carbohydrate that is not fermentable but reduces metallic oxida. It was discovered by the complex of t

Gümbel. a German geologist.] A glittering greenish-white silicate of aluminium, iron, and

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potassium, not infrequently replacing the bituminocarbonaceous film of the graptolites. It

may be an impure pyrophyllite.
gumbol, n. 4. A type of soil in the southern
and western United States which forms a tough, dark-colored mass in a high degree plastic and clay-like, yet sometimes consisting chiefly of silt or very fine sand. It is very sticky and difficult to till when wet, and when dry breaks diment to this when wet, and when dry breaks into hard cuboidal lumps. See *gumbo clay.— Gumbo clay, a clay which resembles the gumbo of the Mississippi valley, a stratified boulder-clay of the lower till. From the known characters of this material, the term is less precisely applied to any dense, massive, or stratified clay of marked plasticity, sepecially those forming the subsoil layers of many farming districts.

gum-box (gum' boks), n. In southern Chile, Escallonia macrantha, an aromatic evergreen shrub with resinous-lotted simple leaves and red flowers. An infusion is made from the leaves and flowers which is administered as a tonic and emmenagogue, and a balm is made with oil for dressing wounds. Also called stete-camisas.

gum-digger (gum'dig'er), n. A person engaged in digging fossil resin of the kauri pine, which is used in the manufacture of varnish. [New Zealand.

gun-disease (gum'di-zēz'), n. A disease of the bark of orange-trees. See *gummosis, 2. gum-field (gum'fēld), n. In New Zealand, an area where kauri-gum may be found.
gum-flower (gum'flou'er), n. An artificial

flower. [Scotch.]
gum-flux (gum'fluks), n. Same as *gummosis, 2.
gum' (gö'mi), n. [Jap.] The Japanese name
of Elæagnus longipes, a bush that is now
cultivated in the United States, prized both for
its ornamental character and for the edible

cranberry-like fruits.

gum-lancet (gum'lan'set), n. An instrument
for incising the gum over a tooth, or for pushing back the gum so as to free the neck of a

tooth about to gum's bush), n. [West Indian negro gumma, supposed to be of African origin, + bush¹.] The black nightshade, Solanum nigrum, which is used as a pot-herb by the ne-

rummer. n. 2. A workman whose business it is

to use the gummer in widening the spaces between the teeth of a saw.

gummic (gum'ik), a. [NL. *gummicus, < L. gummi, gum.] Pertaining to or derived from gum or gummic acid. — Gummic acid. Same as

gummose¹ (gum'ōs), a. [NL.*gummosus, < L. gummi, gummus, gum: see gum, n.] Gummy; gummatous.

gummose² (gum'ōs), n. [gum + chem.-ose.] An unfermentable reducing sugar, produced by the hydrolysis of mucin.

gummosis, n. 2. An abnormal production and flow of gum from cracks or wounds of trees. Apricots, cherries, and plums are especially subject to this disease. Fungi and bacteria are frequently found in the affected tissues and gum and are believed by some authors to be the cause of the pathological conditions. Also called gum-flux and gum-disease.

gum-shoe (gum'sho), n. A shoe made of gum, that is, india-rubber; a rubber overshoe. [Colloq., U. S.]

gum-shrub (gum'shrub), n. In St. Helena, Commidendrum rugosum, one of the shrubs there called gum-wood. See scrubwood and gum-wood, 2.

gum-succory (gum'suk'ō-ri), n. See succory. gum-sucker (gum'suk'er), n. A person of European descent born in the Colony of Victoria, in Australia. [Australia; now rare.]

gum-swamp (gum'swomp), n. In the south-eastern United States, a swamp, or more com-monly an area in a large swamp, in which the black-gum or sour-gum, Nyssa sylvatica, or any other species of Nyssa, is the dominant tree. In the Dismal Swamp these areas are distinguished from the juniper-swamps.

gum-thistle (gum'this'l), n. A spiny, cactus-like plant of Morocco, Euphorbia resinifera, which yields an acrid, poisonous gum-resin, and is often seen in cultivation. See euphorbium, 1, and cut at Euphorbia, 1.

gum-tooth (gum'toth), n. A molar tooth. gum-wax (gum'waks), n. The balsamic exudate from the sweet gum, Liquidambar Styraciflua.

gum-weed (gum'wēd), n. 1. The gum-plant, Grindelia (which see; also *Grindelia).—2. A weed of the Great Plains, Lygodesmia juncea,

skeleton-like plant with most of the leaves very small or reduced to scales.

gun¹, n. 7. A professional criminal; a thief; a pickpocket. [Thieves' cant.]

No one knows absolutely how many guns there are in New York; the Front Office itself could not tell for a certainty the number of first-class thieves who are on the streets at this moment; but it is a generally accepted fact among the guns themselves that every day in the week there are enough grafters in the city to people a good-sized county-seat. McClure's Mag., XVI. 571, 572.

fact among the guns themselves that every day in the week there are enough grafters in the city to people a good-sized county-seat. McCure's Mag., XVI. 571, 572.

Automatic gun, a gun, generally of small-arms caliber, in which the recoil or the pressure of the powder-gases may be utilized, after the first round (by actuating the proper lever), to perform continuously all the operations of loading, firing, and ejecting the cartridge-case. The cartridges are fed from belts, and very great rapidity of almed fire may be attained. See pompon.—Barisal guns, a mysterious booming noise, as of a distant cannon, heard off the coast near Barisal, India, the nature of which is not yet clearly understood. Similar noises off the coast of Holland are there known as mistpoufers. In both places they occur in foggy weather. Analogous sounds are often reported from the coasts of Nova Scotia, New Brunswick, and Florida, and from Seneca Lake, New York, where they are known as the Seneca Lake guns. Various plausible explanations have been suggested, but nothing has as yet been demonstrated.—Bofors guns, a gun of Swedish manufacture, built up of steel castings, having a breech-mechanism and mounted on a carriage of such design that the action may be semi-automatic.—Built-up gun. See gunl. The largest piece is the central tube, which extends throughout the length of the gun. Upon this tube is shrunk a series of jackets and hoops, the most important one of which is the jacket that covers the rear part of the tube from a third to half its length. In modern guns, the threads for the breech-plug are cut in this jacket. The number of hoops and jackets varies with the size and type of gun.—Canet gun, a gun manufactured in France on the system of M. Canet. It does not differ materially from other built-up guns, but, with its special mounting, is designed to give high initial velocity and rapid fire.—Converted gun, a muzzle-loading gun.—Creusot gun, a gun manufactures built-up guns of all calibers for any service.—Croxier wire-wound gun, a gu when it is held in a the shooter's elbow.

Shooting to begin at 2 P. M. sharp. First cup, 25 birds, andicap, "gun down."

Forest and Stream, Jan. 24, 1903, p. 79.

Shooting to begin at 2 P. M. sharp. First cup, 25 birds, handicap, "gun down."

Forest and Stream, Jan. 24, 1908, p. 79.

Hooped gun, a gun in which the central tube or barrel is reinforced by hoops shrunk on the outside.—Hotch-kiss gun, a gun manufactured at the Hotchkiss works in St. Denis, France; especially, a revolving cannon, and also the mountain-or field-gun of this manufacture. See machine-gun, mountain-artillery, under artillery, and field-gun.—Lancaster gun, a pleec of ordnance, patented in the year 1850, having an elliptical bore and increasing twist. It proved to be a failure, since the projectile exerted a wedging action.—Life-line gun, a gun about the size and pattern of a cavalry carbine, used to throw a life-line to the top of a burning building to save life imperiled there.—Maxim gun. See machine-gun.—Naval gun, a cannon mounted on board a war-ship or used by the naval forces of a country.—Nordenfelt gun. See machine-gun.—Rapid-fire gun, a breech-loading gun of from 1½ to 8 inches caliber which uses metallic ammunition. Each type is designated by the name of the inventor of the breech-loading system used, as the Gerdom, Fletcher, Seabury, Dashiel, Canet, Schneider, Armstrung, Driggs-Schröder, Maxim-Nordenfelt, Hotchkiss, Gruson, and others.—Semi-automatic gun, a cannon of small caliber in which the recoil may be utilized to open the breech, thus saving the time necessary to perform this operation by hand and permitting more rapid firing.—Seneca Lake guns. See Barisal *guns.—Sims-Dudley pneumatic gun, a powder charge. In action, the powder is exploded in the right harrel and the gases pass to its front end, then across to the left barrel, and are finally admitted behind the projectile in the center barrel, mixed with the air in the two side barrels which has been compressed by the process. Shells containing sensitive high explosives can thus be discharged without sufficient shock to cause explosion.—Subcaliber gun, a small cannon, generally about 1½ to 3 inches in caliber, placed axially in the

of the Cichoriaceæ. It is a rigid, branching, gun1, v. II. trans. In forestry, to aim (a tree)

in felling it. it. In the case of very large, brittle trees, redwood, a sighting device, called a gunning-

guna, n. 2. In the Sankhya philos. of India, one of the three constituents of the primal matter out of which the world is evolved. See the extract.

the extract.

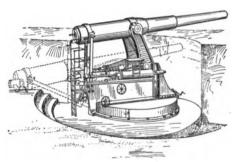
The originator of the Sankhya doctrine believed that he recognized in the world of matter three substances or constituents (gunas, usually, and very erroneously, rendered by "qualities"), unequal, and mingled in varying proportions: of which the first exhibits the characteristics of lightness, of light, and of delighting; the second, those of mobility, of excitation, and of pain-giving; the third, those of heaviness, of obstruction, and of stupefaction. . . The undeveloped primeval matter is accordingly the condition of equilibrium of the three gunas.

R. Garbhe, Sankhya, in Univ. Cyc., VII. 297.

gun-bed (gun'bed), n. In ordnance, the plat-form or wood planking on a deck which sup-

ports a gun-mount.
gun-bright (gun'brit), n. The common scouring-rush, Equisetum hyemale, used in polishing guns.

guns.
gun-carriage, n.—Disappearing gun-carriage, a
gun-carriage so arranged that the gun after being fired
descends, under the influence of the force of recoil, to the
loading position behind the protection of the parapet,
where it can be manœuvered without exposing the gun
detachment to the enemy's fire. During the recoil of the
gun sufficient energy is stored up, by means of a counterweight or by air-compression, to raise the gun to firing
position when released. The Buffington-Croxier disappearing gun-carriage has been adopted for the sea-coast



Disappearing Gun-carriage with Gun in Firing Position. Loading position shown in dotted outline.

service of the United States. The gun is mounted upon levers trunnioned in a top carriage which rolls back under the force of recoil. The lower ends of the levers are compelled to move between vertical guides and raise a counterweight. The constrained motion on two lines approximately perpendicular to each other, thus causing the gun to describe an arc of an ellipse in recoiling, is the mechanical principle of the carriage.—Hydraulic-recoil gun-carriage, in ordnance, one in which the recoil of the gun, when fired, is gradually resisted by pistons in cylinders filled with liquid. See *gun-mount.

gun-case (gun'kās), n. A covering for protecting a gun, generally of cloth or leather: sometimes provided with a handle for carrying the gun when it is not to be used.

the gun when it is not to be used.

runda (gun'dä), n. [Hind. ganda, gunda, Beng. ganda]. A copper coin of Bengal of the value of 4 cowries, or one twentieth of an anna.

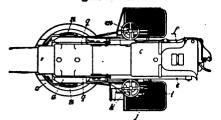
gun-fence (gun'fens), n. See fence. gun-fire, n. 2. The discharge of small arms or

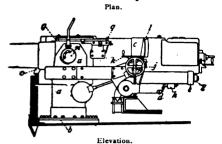
gun-layer (gun'lā'er), n. One who lays or aims a gun; gun-pointer. [Eng.]

Expert gun-layers and well-drilled detachments are thus of cardinal importance. Encyc. Brit., XXVIII. 453.

gun-money (gun'mun'i), n. 2. Prize-money, captors of an enemy's ship of war that had been destroyed or deserted in fight. Admiral Smyth, Sailor's Word-book.

smyth, Sailor's Word-book.
gun-mount (gun'mount), n. In ordnance, the ensemble of the mechanism, placed on a platform or deck, or in a turret, by which a gun is supported and manipulated. In a modern deckmount, the principal parts are the pedestal or stand and the top-mount or -carriage. The pedestal or stand is the lower fixed part, permanently bolted to the platform or deck. Upon it the top-carriage turns on a vertical axis to train the gun. The top-carriage includes the guncradle or -saddle and the sleeve. The sleeve has trumions forming a horizontal axis by which it is supported in the saddle, and the gun carried in the sleeve can be elevated or depressed by the elevating gear which connects the sleeve to the saddle. The sleeve carries the hydraulic recoil-cylinders, which check the recoil of the gun through the sleeve when fired, and the springs, which return the gun to its normal position in the sleeve. In a turretmount, the turret support or foundation on which it rotates replaces the pedestal; the turret itself, with its gungirders, is equivalent to the saddle. Attached to the girders are heavy steel castings, called deck-lugs, which are equivalent to the upper part of the saddle. They have in their upper parts trunnion-bearings to receive the trunnions on the sleeve which carries the gun. The sleeve is of the same general character as that of a deck-mount





Elevation.

Central Pivot Gun-mount for 6-inch Rapid-fire Gun.

a. top-carriage saddle; b. pedestal or pivot (the only part of the pedestal showing in the cut is the deck fiange, the remainder being in the interior of the top-carriage; c., cylindrical sleeve; d., hydraulic recoil-cylinder; e., f., spring return-cylinders; g. projecting arm by which gun is attached to spring return-rods; h. projecting arm by which gun is attached to recoil-cylinder piston-rod; f. hand-wheel for elevating gear; h. hand-wheel for training gear; d. shoulder-piece: m. auxiliary training-wheel; n. m. trunnion bearings; o, gun-shield; q. q. gun-sights. hand wheel for elevating gear: A, hand wheel for training gear; A, shoulder-piece; m, auxiliary training-wheel; n, n, trunnion bearings; o, gun-shield; q, q, gun-sights.

described above. (See cut under *turret.) The rapid progress of invention in guns and gun-mounts has resulted in a large number of types, and uncertainty and variety in the nomenclature of the parts.

gunnage, n. 2. Same as *turn-mounts of the parts.

gunnage, n. 2. Same as *gun-money, 2. gunnarite (gun'ar-it), n. [Gunnar, a Swedish name, + -ite².] An iron-nickel sulphid, perhaps 3FeS₂.2NiS, occurring with pyrrhotite in Sweden

gunnel² (gun'1), n. [gunnel¹, n.] A name of the elongate blennies, found on the rocky coasts of the North Atlantic and North Pacific, belonging to the genus *Pholis*. The best-known of these

fishes in the North Atlantic is P. gunnellus.

Gunnellops (gun'e-lops), n. [NL., \(Gunnellus, + Gr. \(\beta \pi \) (\(\beta \pi - \)), eye, face.] A genus of blennies, small fishes allied to Pholis, found in the

North Pacific.

Gunner's daughter, a name formerly given to the broadside gun to which offenders were secured before being lashed or otherwise punished.—To marry the gunner's daughter, to be bound to the 'gunner's daughter."—Gunner's gang, the gunner and his mates whose duty it is to keep the guns and mounts clean and in good order.—Gunner's tailor (naut.), formerly, the man who made the cartridge-bags for the guns.—Master gunner, one of the warrant-officers in the British service.

gunning-stick (gun'ing-stik), n. A stick used in guiding the fall of a tree. See *gun1,

gun-pointer (gun' poin' ter), n. The member of a gun's crew whose duty it is to keep the gun pointed at the target and to fire it. In modern methods of gun-practice, the pointer keeps his eye continuously at the sight and manipulates the training and elevating gear to keep the gun continuously aimed at the target to towithstanding the rolling of the vessel.

gunpowder, n.—Smokeless gunpowder

gun

target notwithstanding the rolling of the vessel.

gunpowder, n.—Smokeless gunpowder, a substitute for gunpowder which gives off little or no smoke when discharged in a gun and develops increased velocity in the projectile without increased pressure in the gun. It consists in general of an oxidizing agent and a substance added to regulate the explosive force. This latter is technically called a deterrent. Smokeless powders are classified according to the oxidizer used: (1) Picric-acid powders (these are not generally stable); (2) ammonium-nitrate powders (these are highly hygroscopic); (3) guncotton powders; (4) nitroglycerin and guncotton powders. The first two classes have practically been abandoned. Smokeless powders are designated from their appearance, the name of the inventor, or arbitrarily, as cordite, Peyton, pouder B., etc.

gunpowder-engine (gun'pou-dèr-en'jin), n.

gunpowder-engine (gun'pou-dèr-en'jin), n.
An internal-combustion motor of early design in which the fuel to supply heat and expand the air in the mixture behind the workingpiston came from a charge of gunpowder intro-duced at each stroke behind the piston and fired. It was noisy and impossible to regulate closely, and the sudden shocks from the explosion of the power made frequent repair necessary. The gasification of the solid material in the gunpowder produced high pressures from small quantities of powder.

gunpowder-hammer (gun'pou-der-ham'er), n.
A device for driving piles by exploding gunpowder on top of a piston on whose rod is attached a hammer-head or tup, which is thus
driven downward against the top of the pile with great force.

gun-sen (gön'sen'), n. [Jap.] In Japan, a large iron-framed folding fan used for signaling and as a weapon of defense.

gun-shield (gun'shēld), n. In ordnance, an armored shield attached to and turning with the top-carriage of a gun: designed to protect the mechanism and the gun's crew. Such shields are of varied size and shape, in some cases approaching the dimensions of a turret, except that the shield is relatively of thinner armor and is open at the back. See cut under shield, 2 (a).

gun-sight (gun'sit), n. The rear sight of a small arm or cannon, marked with graduations corresponding to various ranges. See sight1,

gun-spaniel (gun'span'yel), n. A spaniel used in the field in shooting game.

Gun-stock deformity. See *deformity.
gunter (gun'ter), n. Same as Gunter's scale
(which see, under scale³).—According to Gunter.
See *according.
gunyah (gön'yä), n. [Aboriginal Australian.]
A shelter of the native Australians; a hut of any kind. Compare *goondie.



Striped Gurnard (Prionotus evolans). (From Bulletin 47, U. S. Nat. Museum.)

robin, Trigla cuculus.—Striped gurnard, or sea-robin, Prionotus evolans, a trigloid fish found on the South Atlantic coast of the United States. Also called sea-robin, —Tub gurnard, Trigla birundo, a gurnard found on the coast of Europe.
gurnet, n. 2. In Australia, the fish Centropeagen corresponded of the family Seamontain.

ogon scorpenoides, of the family Scorpenide.

— Flying gurnet, Chelidonichthys polyommata, found on all the Australian coasts from New South Wales to Western Australia. It has large pectoral fins, but cannot support itself in the air like the flying-fish.

gurolite (jur'ō-lit), n. Same as gyrolite. gusle (gös'le), n. [Servian gusle, Bohem. housle, = Russ. gusli, a fiddle, violin, (OBulg. gandan,

gusset-needle (gus'et-ne'dl), n. In knitting, a needle used for inserting a gusset, as that in a stocking.

gusset-plate (gus'et-plat), n. A triangular metal plate used to join two or more pieces where they meet and form a corner or panel-

point in a truss; a gusset-stay. R. H. Thurston, The Steam-boiler, p. 415. gusset-stay (gus'et-stā), n. A triangular plate having a flange turned on two sides, which is used as a bracket-stay in the corners of a steam-boiler.

Gustatory center, image. See * center1. ≠image.

gusto, n. 2. Artistic 'style' or 'taste': as the grand gusto (It. il gran gusto), the grand

Gutenstein limestone. See *limestone. gut-hook (gut'huk), n. A hook, made by bending a piece of wire, used for joining small round belts, as on a sewing-machine.

gutta, n.—Gutts Anglicans ('English drops'), a preparation, composed chiefly of ammonia and alcohol, formerly employed as a cerebral stimulant.—Gutta rosacea, in pathol., same as aene rosacea. See aene.

gutta2, n. 2. A colorless pulverulent compound, $C_{10}H_{16}$, contained in gutta-percha. It begins to melt at 180° C., and loses its flexibility on exposure to air and light.—Gutta merah [Maky getah merah, 'nice gutta'], a trade-name for one of the commencial grades of gutta-percha. Elect. World and Engin., March 14, 1903, p. 449.

gutta-band (gut'ä-band), n. In Greco-Rom. arch., same as regula, 2.
gutta-joolatong (gut'a-jö-lä'tông), n. [Prop. *gutta-jelatong, (Malay getah, gutta, + jelatang, stinging nettle.] The concrete latex obtained from any one of several Malayan tres of the genus Degrad the dochen family are of the genus Dyera of the dogbane family, especially D. costulata. It is an inelastic, creamy-white substance which somewhat resembles gutta-percha, and is imported in large quantities into the United States is mixing with other ingredients in the manufacture of his grade rubber-goods. Called also jelating and pontional.

Importations of "gutta-joolatong," a product of Inda. which is used in certain industries as a substitute for industriber, now average more than a million pounds a month Elect. World and Engin., June 18, 1904, p. 1154

gutta-milk (gut'ä-milk), n. The freshly er-uded milky juice of Isonandra gutta, which on drying forms the valuable substance gutta-percha. Sci. Amer. Sup., Feb. 28, 1903, p. percha. 22707.

any kind. Compare *goondie.
gunyang (gön 'yang), n. [Aboriginal Australian.] The native name of the kangaroo-apple,
Solanum aviculare.
gurah, n. See *gora.
gurahen, n. Same as *buranhem.
gurgeon-stopper (gèr'jon-stop'èr), n. See
gurgeon-stopper (gèr'jon-stop'èr), n. See
stopper 3

proposition de la serted in gashes cut into the face of a tree and serve to conduct resin into a cup.—Parallal gutter, a gutter specially built with accurately parallel sides, as distinguished from a fillet gutter or valley gutter.—Parapet gutter, a gutter raised upon the surface of aloping roof near its lower edge, and usually composed of the fashing turned up against the parapet wall beyond.—Seminal gutter, in certain earthworms, a groove which connect the two openings of the spermiducal glands on each sit of the body.—Valley gutter, a gutter produced by the metal flashing of the valley in a roof. Where the rand water is very great this flashing may be hollowed into a decided channel. serted in gashes cut into the face of a tree and

gutter-drift (gut'er-drift), n. Same as gut

ter1, 5.
gutter-fillet (gut'er-fil'et), n. A cove made
by flashing, as where a chimney breaks the
slope of a roof and the flashing is turned up to throw the water away from the masonry.

gutterman (gut'ér-man), n. Same as sramper. gutter-member (gut'ér-mem bèr), n. The architectural feature made by the decorative treatment of the front or outer edge of the roof-gutter: prominent in the design in the

roof-gutter: prominent in the design in the Doric style and in some modern styles. gutter-plane (gut 'er-plān), n. A grooved plane with a rounded iron which cuts a smooth hollow molding. gutter-tile (gut 'er-til), n. A tile, usually of pottery, bent to a half-circle or nearly so. Such tiles can be used with the concave side up, forming gutters, or with the convex side up, forming ridges. gutter-tongs (gut'er-tôngs), n. A variety of

gutter-tongs (gut'er-tôngz), n. A variety of roofing-tongs used in forming the gutters of a

gutter-tree (gut'er-tre), n. 1. Same as gaiter-tree.—2. The red-osier dogwood or kinniki-nick, Cornus stolonifera.

guttery (gut'er-i), n.; pl. gutteries (-iz). [gut + -ery.] A place where fish are gutted. gut-tie (gut'ti), n. 1. A condition of cattle in which a loop or knuckle of intestine enters a which a loop or knuckle of intestine enters a tear in the peritoneum and is held between the remains of the spermatic cord and the anterior margin of the hip-bone, causing obstruction to the passage of excrement and exciting an inflammation which terminates in gangrene and death. Also called peritoneil hernia. U.S. Dept. Agr., Rep. on Diseases of the Horse, 1903, p. 56.—2. The twisting or knotting of the bowels of animals, causing severe colicky pains. Same as volculus in man.

Guttural pouch. See *pouch.
gutturalism (gut'u-ral-izm), n. [guttural +
-ism.] Guttural quality or character.

There existed of old in the language a group of works beginning with wh and wr; such as whale, wharf. wrath. . . The contagion of these examples spread to words beginning with H or R simple, and the movement was perhaps aided . . by the desire to reassert the inguishing gutturalism of H and . . . of R. Barle, Philol. Eng. Tongue. * 185.

gutturalize, v. t. 2. To impart a guttural character to; render guttural: as, to guttural:

gutturolabial (gut'u-rō-lā'bi-al), a. and s. I. a. Pertaining to or produced by both the throat and the lips.

II. n. A sound produced in this way.

gutturonasal (gut'u-rō-nā'zal), a. Belonging to both the throat and the nose.

gutturopalatine (gut'u-rō-pal'a-tin), a. Belonging to both the throat and the palate. gutturosibilant (gut'u-rō-sib'i-lant), a. and n.

a. Belonging to the throat, but sibilant.
 n. A sound which possesses that charac-

gutty² (gut'i), n. [A diminutized form of gutta-percha.] In golf, the gutta-percha ball. [Slang.]

gut-weed (gut'wed), n. The corn sow-thistle, Sonchus arvensis.

guvacine (gö'va-sin), n. A monacid alkaloid C₆H₉NO₃, from the areca-nut. It is deposited in small lustrous crystals which melt at 271-

guvern, guverness, etc. Simplified spellings

of govern, guverness, etc. Simplified spellings of govern, governess, etc. guy', n.—Jib-boom guys, ropes which steady the jib-boom sidewise. They lead from the outboard end of the spar to the bows of the vessel, where they are set up.—Lower-boom guys, ropes used for steadying the swinging-boom.—Spanker-boom guy, a rope for steadying the spanker-boom when running before the wind, so that the spar may not swing inboard when the vessel rolls deeply to windward.

guy-belly (gī'bel'i), n. Naut., a rope that supports the middle part of a derrick or sheer-leg. guy-chain (gī'chān), n. A chain used as a ten-sion-brace or -guy instead of the customary rope.

guy-crane (gī'krān), n. A derrick; a crane which is held upright by tension-braces or-guys. guy-peg (gī'peg), n. A peg, usually of wood but sometimes of metal, to which the tensionbrace or -guy of a derrick, tent, etc., is made

guy-rings (gi'ringz), n. Naut., the iron rings of the head-block on a derrick-mast, to which

the guy-ropes are secured.
guy-rod (gi'rod), n. A tension-brace or -stay
made from a rod instead of rope, as is customary.

Guy-rods are 8 ft. x § in., provided with an eye at one end, threaded 2 in. at the other, each fitted with two nuts and one washer, and all are of wrought iron or mild steel.

Elect. World and Engin., Oct. 31, 1903, p. 711.

guz (guz), n. [Also gaz and gudge; \ Hind. gaz, an iron bar, a ramrod, a yard-measure, a footrule, etc.; Hind. desi gaz, the 'native yard' (33 inches), lambari gaz, the 'standard yard' (36 inches); Pers. gaz, an ell.] A measure of length used in Hindustan and Arabia, equal to about 27 inches in Bombay, to 33 inches in Madras, to 36 inches in Bengal, to 38 inches in Mysore, to 25 inches at Mocha, and to 31.6 inches at Bagdad.

mysore, to 25 inches at incens, and to 5 inches at Bagdad.

Gyalectaces (ji'ā-lek-tā'sē-ē), n. pl. [NL., < Gyalecta + -aceæ.] A family of gymnocarpous lichens named from the genus Gyalecta.

Gymnachirus (jim-nak'i-rus), n. [NL., < Gr. γυμνός, naked, + ἀχειρ, ἀχειρος, without hands.] A genus of scaleless soles of the family of Soleidæ: found in South America.

Gymnasteria (jim-nas-tē'rī-ā), n. [NL., < Gr. γυμνός, naked, + ἀστήρ, star.] The typical genus of the family Gymnasteridæ. Gray.

Gymnasteridæ (jim -nas-te-rī'i-dē), n. pl. [NL., < Gymnasteria + -idæ.] A widely distributed family of Stelleroidea. It consists of phanerozonis with opposite ambulacral ossicles and unequally developed marginal plates, abactinal skeleton tesellate with irregular plates, and the whole test covered with membrane. The typical genus is Gymnasteria.

gymnastics, n.—Swedish gymnastics. Same as

gymnastics, n.—Swedish gymnastics. Same as ments

Stream with the most of the second strains of the second strains of the second strains of the second second strains of the second seco naked, found about Panama.

Gymnelinæ (jim-ne-li'nē), n. pl. [NL., < Gymnelis + -inæ.] A subfamily of fishes of the family of Zoarcidæ, typified by the genus Gym-

Gymnelis (jim'ne-lis), n. [NL., used for the proper form *Gymnenchelys, < Gr. γυμνός, naked, + εγχελυς, eel.] A genus of small brightly colored eel-shaped fishes of the family of Zoarcidæ, found in the Arctic and Antarctic waters of the Pacific. G. viridis is common in Bering Sea.

gymnemic (jim-nem'ik), a. [Gymnema + -ic.]
Noting a resinous acid extracted from the leaves of Gymnema sylvestris, indigenous in India. The leaves, when chewed, produce the curious effect of temporarily destroying the sense of taste as respects sweet and bitter, so that such substances as sugar and quinine become indistinguishable in the mouth. E. B. Titchener, Exper. Psychol., I. ii. 104.

Gymnoascaceæ (jim'nō-as-kā'sē-ē), n. pl.

[NL., < Gymnoascus + -aceæ.] A family of simple ascomycetous fungi, named from the genus Gymnoascus. It has small ascocarps consisting of a thin peridium of loose hyphæ inclosing globose asci which arise as lateral branches of the ascogenous hyphæ. Simple mold-like conidia occur in many cases. See

Gymnoascus (jim-nō-as'kus), n. [NL. (Baranetzky, 1872). ⟨ Gr. γυμνός, naked, + ἀσκός, a sack.] A small genus of fungi of the family Gymnoascaceæ. They have the peridium composed of a loose layer of thick-walled much-branched hyphæ whose terminal branches are frequently pointed and sometimes hooked. The spores are simple and hyaline or bright-colored, varying from globose to spindle-shaped. G. Reessii occurs on dung.

gymnoblastous (jim-no-blas'tus), a. Same as

gymnoblastic. Gymnocanthus (jim-nō-kan'thus), n. [NL., an error for "Gymnacanthus, < Gr. γυμνός, naked, + ἀκανθα, spine.] A genus of fishes of the family Cottidæ (the sculpins), found in the North Atlantic and North Pacific. It is characterized by the absence of teeth on the vomer and by the presence of antier-like spines on the preopercie. G. tricuspis is found on the coast of Canada.

Gymnocarpes (jim-nō kär pē-ē), n. pl. [NL.]
Same as *Discolichenes. See gymnocarpous.
gymnocarpic (jim-nō-kär pik), a. Having the spore-bearing surface or hymenium naked: applied by Brefeld to the *Uredinales* and *Da*cryomycetales.

Gymnoglossa (jim-nō-glos'ä), n. pl. [NL., < Gr. γυμνός, naked, + γλώσσα, tongue.] A group of gastropods destitute of radula and jaws. The proboscis is prominent and in parasitic forms is used to suck the juices of the host. The group contains the families Eulimidæ and Pyramidellidæ.

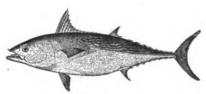
gymnoglossate (jim-nō-glos'āt), a. and n. [As Gymnoglossa + -ate¹.] I. a. Having the radula hidden or absent; of or pertaining to the Gymnoglossa.

II. n. Any gastropod of the group Gymnoalossa.

Gymnogongrus (jim-nō-gong'grus), n. [NL., ⟨Gr. γυμνός, naked, + γόγγρος, an excrescence.]
 A large genus of red algæ which resembles Chondrus, or Irish moss; it is widely distributed. nted.

gymnoplast (jim'nō-plast), n. [Gr. γυμνός, naked, + πλαστός, formed.] A naked protoplasmic mass, that is, one without an inclosing wall or membrane.

ing wall or membrane. **Gymnosarda** (jim-nō-sār'dā), n. [NL., \langle Gr. $\gamma \nu \mu \nu \delta c$, naked, $+ \sigma a \rho \delta n$, L. sardae, sardine.] A genus of the Scombridæ or mackerel-like fishes found in most tropical seas, swimming freely in the open ocean. Members of the species are smaller in size than the true tunnies, reaching a weight of 5 or 6 pounds, and are known as small tunnies and oceanic bonitos. Two species are well known, G. alleterata and G. pelamis.



Gymnosarda alleterata. (From Bulletin 47, U. S. Nat. Museum.)

gymnosome (jim'nō-sōm), n. [NL. gymnosoma.] In zoöl., one of the Gymnosomata; a pteropod with a naked body.

gymnospermic (jim-nō-sper'mik), a. Same as

gymnospermal.
gymnospermy (jim'nō-sper-mi), n. [Gymno-sperm-ous + -y³.] In bot., the state or character of being gymnospermous.
gymnospore, n. 2. Specifically, in bot., a spore that is neled in the case of the state of the s

that is naked in the sense of not being produced in a sporangium.—3. In the classification of Le Maout and Decaisne, a cellular cryptogamic plant in which the spores, by absorption of the mother-cell, become free in a common cavity. Their group Gymnospores is coextensive with the Bryophyta. No longer nsed.

Gymnosporidia (jim'nō-spō-rid'i-ä), n. pl. [NL., ⟨Gr., γυμνός, naked, + σπορά, seed (spore), + dim. -diov.] In Labbé's classification, a group of protozoan cell-parasites, which form an order on a group of protozoan cell-parasites. an order or a suborder of Hæmosporidia. They infest warm-blooded hosts and owe their name to the fact that no resistant cysts are formed in these hosts, sporogony, so far as observed, taking place in an intermediate invertebrate host.

Gymnostomata (jim-nō-stō'ma-tä), n. pl. [NL., \langle Gr. $\gamma\nu\mu\nu\delta\varsigma$, naked, $+\sigma\tau\delta\mu a(\tau-)$, mouth.]

An order of Ciliata in which the mouth is usu-An order of CMMA in which the mouth is usually closed except during the inception of food, and is without an undulating membrane. The pharynx, when distinctly developed, is without ciliary structures, but is usually provided with a rod-apparatus or with a modification of one. It includes the families Chlamydodonta, Enchelina, and Trachetina. Compare *Trichostomata.

gymnostomatous (jim - $n\bar{o}$ - $st\bar{o}$ ma - tus), a. [Gr. $\gamma \nu \mu \nu \phi c$, naked, + $\sigma \tau \phi \mu a (\tau -)$, mouth.] Having the mouth unprovided with an undulating membrane, as certain ciliate infusorians.

membrane, as certain ciliate infusorians.

Gymnothorax (jim-nō-thō'raks), n. [NL., ζ Gr. γυνός, naked, + θωραξ, chest.] A genus of morays or eels, of the family Murænidæ, comprising many of the largest and most ferocious members of the group. The genus is characterized by the well-developed dorsal fins and by the absence of tentacles on the posterior nostrils. There are very many species, some of them brilliantly and fantastically colored. G. moringua and G. functoris are common in the West Indies.

Gympic series. See *series.

Gympic series.

gynæcandrous, gynæcarchy, etc. See *gynecandrous, etc.

gynsecum, n. 4. In some countries, that part of a Christian church which is reserved for the women of the congregation.

gynandrism (ji-nan'drizm), n. [gynandr-ous + -ism.] The state of being monœcious or hermaphrodite.

gynandrocratic (ji-nan-drō-krat'ik), a. [Gr. γυνή, woman, + ἀνήρ (ἀνδρ-), man, + -κρατία, < κρατεῖν, rule.] Equally ruled by man and woman; characterized by social independence of each sex. L. F. Ward, Pure Sociol., p. 373. gynandromorph (ji-nan'drō-mðrf), n. [Gr. γύνανδρος, female and male, + μορφή, form.]



Insect gynandromorph: a moth (Automeris io), female on the left, male on the right side of the body.

In biol., an animal of a unisexual species but exhibiting the anomaly of having part of the body male and part female. Gynandromorphs

are most frequently found among insects.

gynandromorphic (ji - nan - drō - môr'fik), a.

[gynandromorph + -ic.] Possessing the characteristics of gynandromorphism.

Gynandromorphic insects, in which the characters of the whole or part of one side of the body, wings and antennæ, are male, while those of the other side are female.

W. Bateson, Study of Variation, p. 68.

gynandromorphy (ji-nan-drō-môr'fi), n. Same as gynandromorphism. W. Bateson, Study of Variation, p. 35.

yariation, p. 35.

gynecandrous, gynæcandrous (jin -ē-kan'-drus), a. [Gr. γυνή (γυναικ-), woman, + ἀνήρ (ἀνδρ-), man, + -ous.] In bot., containing both staminate and pistillate flowers, as the spikelets of some carices; androgynous. [Rare.]

The terminal spike is, in this species, nearly always gynæcandrous. Amer. Jour. Sci., April, 1904, p. 308.

gynecandrous. Amer. Jour. Sci., April, 1904, p. 308.
gynecarchy, gynecarchy (jin'ē-kär-ki), n.
[Gr. γυνή (γυνακ-), woman, + ἀρχή, rule. Cf.
gynarchy.] Rule or supremacy of the female,
especially the alleged mother-right or matriarchate of primitive human society. L. F.
Wurd, Pure Sociol., p. 336.
gyneclexis (jin-ek-lek'sis), n. [NL., ⟨Gr.
γυνή, female, + ἐκλεξις, choice: see eclectic.]
Sexual selection through choice by the female.
L. F. Ward Pure Sociol. p. 361.

L. F. Ward, Pure Sociol., p. 361.

L. F. Ward, Pure Sociol., p. 361.
gynecocentric, gynæcocentric (jin'ē-kō-sen'-trik), a. [Gr. γυνή, woman, + κέντρον, center, + -ic.] Centering in and depending upon the female. L. F. Ward, Pure Sociol., p. 296.
— Gynecocentric theory, the view that "the female sex is primary and the male secondary" in organic life and evolution, and that the male was developed "under the operation of the principle of advantage to secure organic progress through the crossing of strains." L. F. Ward, Pure Sociol., p. 296.
gynecocrat. gynæcocrat (iin'ē-kō-krat). "

gynecocrat, gynecocrat (jin'ē-kō-krat), n. [gynecocracy (-crat-).] One who favors or upholds female government. Fitzedward Hall, in The Nation, LVI. 68.

gynecocratic, gynæcocratic (jin 'ē-kō-krat'-ik), a. [gynecocracy (-crat-) + -ic.] Organized on the basis of descent in the female line and governed by woman or by her male relatives; matriarchal.

This phenomenon may point to an original gynæcocratic ge, such as that proposed by Töpffer in the case of the age, such Minyadæ.

ж. A. H. Smith, in Jour. Hellenic Studies, xiv. 250.

gynecomania, gynæcomania (jin'ē-kō-mā'-ni-ā), n. [NL., ⟨Gr. γυνή (γυναικ-), woman, + μανίι, madness.] Same as satyriasis.
gynecomorphous, gynæcomorphous (jin'ē-kō-mōr'fus), a. [Gr. γυνή (γυναικ-), woman, + μορφή, form, + -ουε.] In biol., having the form, attributes, or appearance of a female.
gynecopathic, gynæcopathic (jin'ē-kō-path'-ik), a. [gynecopathy + -ic.] Of or pertaining to gynecopathy gynæcopathy (jin-ā-kon'e-thi)

gynecopathy, gynæcopathy (jin-ē-kop'a-thi), n. [Gr. γυνή (γυναίκ-), woman, + πάθος, disease.] A disease peculiar to women.

gynecophoral, gynecophoral (jin-ē-kof 'ō-ral), a. [gynecophor-ous+-atl.] Same as gynecophoric.

The treatment of diseases peculiar to women. gynocardate (jin-ō-kär'dāt), n. [gynocardic + -ate¹.] A salt of gynocardic acid, the active principle of chaulmugra-oil, used in the treatment of leprosy. Buck, Med. Handbook, V.

gynocardic (jin-ō-kär'dik), a. [Gynocardia+ gynocardic (jin-o-kār'dik), a. [Gynocardia + -ic.] Of orderived from Gynocardia.—Gynocardia and the active principle of challmugra-oil. Its salts are used in the treatment of leprosy.

gynocardin (jin-ō-kār'din), n. [Gynocardia + -in².] A glucoside from the seeds of Gynocardia odorata.

gynodiecism (jin'ō-dī-ē'sizm), n. [gynodiæ-ctious) + -ism.] The condition of being gynodiecius.

dimeions.

gynogenetic (jin'ō-je-net'ik), a. [Gr. ywh. fegynogenetic (jin o-je-net is), d. [Gr. 7007, remale, + yéveac, generation: see genetic.] Productive of females only.—Gynogenetic parthenogenesis, the production of females only from unfertilized eggs; thelytoky. See *homoparthenogenesis.
gynomonoccism (jin ō-mō-uō'sizm), n. [gynomonoccious] + -ism.] The condition of being gynomonoccious

gynomonœcious.

gynomonecous.

gynoplasm (jin'ō-plazm), n. [Gr. γvvh , female, $+\pi\lambda da\mu a$, anything formed (see plasm).] The material that is supposed by Haeckel and others to enter into the composition of female cells and give them their distinctive character, and to be unlike anything that enters into the composition of male cells. See quotation under *androplasm.

under *androplasm.
gynospore (jin'ō-spōr), n. [Gr. γυνή, female, + σπορά, seed (spore).] Same as *macrogamete. Buck, Med. Handbook, VIII. 541.
gynostyle (jin'ō-stīl), n. [Gr. γυνή, woman, + στῦλος, pillar: see style².] In siphonophorans, a female blastostyle.
Gynura (ji-nö'rā), n. [NL. (Cassini, 1825), ⟨Gr. γυνή, female, + ὑνρά, tail. The name alludes to the elongated. tail-like stigmas.] An untenable name for Crassocephalum, a genus of plants of the family Asteraceæ. See *Crassocephalum. cephalum.

gypsine² (jip'sin), n. [gyps-um + -ine².] 1. The trade-name for a fire-proof material, for use in building, consisting of plastic hydraulic lime mixed with coke or sand and asbestos and pressed into blocks like bricks.—2. A and pressed into blocks like bricks.—2. A dusting-powder containing arseniate of lead, applied to plants as an insecticide. E. G. Lodeman, The Spraying of Plants, p. 147. gypsite (jip'sīt), n. [gyps-um + -ite².] Gypsum in a finely granular form: a local name in Kansas and Texas, where this variety occurs.

Under the general head of calcined plaster, or plaster of paris, in these reports is included the product of cement plaster made from gypsum dirt, or "gypsite." A greater portion of the gypsum product of Kansas and Texas is of this variety. . . . Under the microscope the

gypsite of Kansas is seen to consist of a mass of small, angular gypsum crystals of varying size.

An. Rep. U. S. Geol. Surv., 1897-98, pp. 584, 585.

Gypskeuper (güps'koi-per), n. [G., 'gypsum keuper.'] In geol., a subdivision of the Triassic system in Germany. It is correlated by German geologists with the upper part of the Keuper, and is underlain by the Lettenkohl and overlain by the Rhætic. It reaches a thickness of 1,000 feet and contains numerous plants (Equisetum columnare) and labyrinthodont and fish remains.

and fish remains.

Gypsornis (jip-sôr'nis), n. [NL., < Gr. γύψος, gypsum, + δρυας, bird.] An extinct genus of grallous birds like the rail, found in the Eocene gypsum-beds of Montmartre, France.

gypsum, n.—Gypsum tablet, a smooth plate of plaster of Paris used in the blowpipe analysis of minerals, particularly of those which yield colored sublimates.—Paris gypsum, in geol., the uppermost division of the Upper Eocene (Oligocene) in the Paris Tertiary basin. It consists of four beds of gypsum, intercalated with sands and marls, the highest of which is celebrated for the profusion of its manmalian remains (Anoptotherium, Palsotterium, opossum, pachyderms, Carnivora).

gypsum-furnace (jip'sum-fer'nās), n. A furnace used to calcine gypsum in the manufacture of stucco or plaster of Paris. More com-

gynecophoral, gynecophor-ous+-all.] Same as yymcophoric.
gynerhopy (ji-ner'ō-pi), n. [Irreg. < Gr. ynth, female, + botth, inclination downward, decline.] The state or condition of a species in which the females depart more widely than the males from the ancestral condition.

When female preponderance occurs, it might be called gynerhopy.

When female preponderance occurs, it might be called gynerhopy.

Science, Feb. 13, 1903, p. 250.

gynetype (jin'ē-tīp), n. [Gr. ynth, woman, + to large and large and

II. a. Of or belonging to the coleopterous family Gyrinidæ.

family Gyrinidæ.

gyroceracone (ji-rō-ser'a-kōn), n. [Irreg. < Gr. γυρός, round, + κέρας, horn, + κῶνος, cone.]

A shell of a nautiloid cephalopod which is curved in a loose spiral lik' that of Gyroceras, the volutions being somet the in contact but with no impressed zone. Hyatt.

Gyrocoryna (ji'rō-kō-rī'nā), n. pl. [NL., < Gr. γυρός, round, + κορίνη, a club.] A family of hete-



From the ventral side, slightly turned to the right, contractile vacuole; b, adoral zone; c, cirrl; d, micronucleus; neganucleus. Highly magnified. (Bütschli, after Blochmann. m Lankester's "Zoology.")

rotrichous, trichostomatous ciliates. They have a bell-shaped body, with the anterior end rounded and the posterior as a caudal appendage projecting from the bell, and a ventral furrow of cilia, with a row of cilia sit the edge of the bell leading to the mouth at the base of the appendage. The only genus is Cænomorpha.

Gyrocotyle (jī-rō-kot-i-lē), n. [NL., < Gr. γυρός, round, + κοτύλη, cup.] The typical genus of the family Gyrocotylidæ. Diesing, 1850.

Gyrocotyle + -idæ.] A family of monozoic tapeworms. They have a leaf-shaped body with cremate margins; a small but deep sucker at the pointed extermity; and at the opposite end a rosette organ carried by a cylindrical peduncle, traversed by a canal which opens at each end, from which a peculiar proboscis-like organ can be everted. Gyrocotyle is the typical genus.

Gyrodus (jī'rō-dus), n. [NL., < Gr. γυρός, round, + όδοις, a tooth.] A genus of extinct ganoid fishes. They have a very flat and deep body completely covered with scales; a blunt nose; flat bean-shaped teeth on the plate and splenial, and a few sharp prehensile teeth on the dentary; a symmetrical caudal fin, and thick scales ridged at the margin. The genus is common in the Jurassic rocks.

Gyrograph (jī'rō-grāf), n. [Gr. γῦρος, a wheel,

gyrograph (ji'rō-graf), n. [Gr. $\gamma i \rho o \zeta$, a wheel, $+ \gamma \rho a \phi \epsilon i \nu$, write.] An instrument for register-

ing the revolutions of a mechanism, such as a

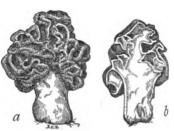
gyrographic (ji-rō-graf'ik), a. [Gr. γἰρος, a wheel, a circle, + γράφειν, write, +-ic.] Noting an organic acid found in certain lichens (Gym-

phora or Umbilicaria pustulata).

Gyrolepis (ji-rol'é-pis), n. [NL, (Gr.)τρά, round, + λεπίς, a scale.] A genus of heterocercal ganoid fishes characterized by having the anterior rays of the pectoral fins not articulated and scales marked with irregular windless. ulated and scales marked with irregular winkles. It is common in the Mesozoic rocks gyromele (\vec{p}' rō-mēl), n. [Gr. \vec{y} iρος, a wheel a turn, $+ \mu \hat{\eta} \lambda \eta$, a probe.] A device consisting of a sponge on the end of a long rotatup bougie, used for swabbing out the stomach. gyrometer (\vec{p} -rom'e-ter), n. [Gr. $\vec{\gamma}$ ipoς, a turn revolution, $+ \mu \hat{\epsilon} \tau \rho o \nu$, a measure.] An instrument for indicating continuously the number of revolutions of a rotating axis.

Gyromitra (\vec{p} -rō-mi'trä), n. [NL. (Frieday)

Gyromitra (jī-rō-mī'trā), n. [NL. (Frie. 1849), < Gr. γυρός, round, + μίτρα, a head-dres.



One fourth natural size; a, general view of plant; b, cross vion of same. (From Engler & Pranti's "Planzenfamilien.

A genus of ascomvectous fungial a turban.l the family Helvellaceæ, having large fleshy stiptate fruiting bodies (ascomata) with the surface irregularly depressed and folded. The nameries to the convoluted turban-like ascoma. Eleren spechave been described, some of which are among the large known Ascomycetes. G. esculenta, as its name indicate is an edible species occurring in America and Europe.

Gyrophoraceæ (jī'rō-fō-rā'sō-ē), n. pl. [NL. (Gyrophora + -aceæ.] A family of gymnearpous lichens named from the genus Gymnearpous Gymnearpous lichens named from the genus Gymnearpous lichens named from the genus Gymnearpous lichens named from the genus Gymnearpous Gymnearpous lichens named from the genus Gymnearpous lichens named from the gymnearpous lichens nam

gyro-pigeon (jī'rō-pij'on), n. turn, + E. pigeon.] A contrivance of tit having flanges so arranged spirally that when a rotary motion is imparted to it its gyrations cause it to rise in the air: formerly used as

target for shooting.

gyroplane (ji'rō-plān), n. [Gr. yīpo; a rīna (wheel), + -plane, as in E. aëroplane.] i type of flying-machine. See the extract.

A further departure from the present fashion of mechine is the gyroplane of Messrs. Breguet, which revive interest in the attempt to overcome gravity by refuse screw propellers. As at present designed, it is supported by four propellers placed at the corners of a square. Nature, Dec. 5, 1907, p. 19

Gyroscopic precession. See *precession. gyrostatics (jī-rō-stat'iks), n. That branch of the science of kinetics which deals with the laws of rotating solids.

the science of kinetics which deals with the laws of rotating solids.

gyrus, n.—Broca's gyrus. Same as inferior front gyrus. See frontal gyri under gyrus.—Central gyrus gyrus, or ridge, just below and in front of the pretra or anterior portion of the sigmoid gyrus.—Dentals gyrus an imperfectly formed convolution within the death fissure.—Fusiform gyrus, the lateral occipitatement convolution, a convolution of the temporal issue.

It forms the posterior portion of the fourth temporal issue.

Gyrus geniculi, a vestigial or degenerate gyrus after anterior end of the callosum: a prolongation of the locational strice of the callosum: a prolongation of the locational strice of the callosum.—Gyrus intermedia rhinencephali, a name applied by Retruis to the law cle of the olfactory tract in the brains of marsupials edentates.—Gyrus limbicus, a thin strip of gra mater upon the callosum which contains the longulation of the contains the longulation of the contains the longulation of the precent gyrus in the sectivores.—Gyrus subcallosus, a gyrus which effect from the rostrum of the callosum to the base of the control in the precent gyrus, and is gifted gyrus, a gyrus which effect from the rostrum of the callosum to the base of the control in the control gyrus.—Ingual gyrus, a convolution of the brain.—Paracentral gyrus, a convolution bounded by the paracentral and callosumar sulci.—Postcentral gyrus, a convolution pater of the certar sulcus.—Precentral gyrus, a convolution pater of the certar sulcus.—Precentral gyrus, a convolution grant gyrus, a same as an accommodation of the cerebrum, adjacent to the median or fissure which separates the halves of the cerebrum is more or less parallel with the sagittal suture of skull.





8. (d) In mineral., the initial letter of the general symbol, hkl, applied to a face of a crystal in the system of of a crystal in the system of Miller. See *symbol. (e) In elect., the symbol for henry (which see).—4. (f) In pathol., hypermetropia.

macienda-piece (ath-i-an' dia-pes), n. A private coin struck by the proprietor of an hacienda or ranch in Mexico or Central America.

h., hy. In electrotechnics, abbreviations of henry.

ha. An abbreviation of hectare.

has (hä'a), n. [Hawaiian.] A tree of the spurge family, Antidesma platyphyllum, found on most of the Hawaiian Islands, and reaching a height of 30 feet. Its fruit is a reddish drupe with a bony, flattened putamen.

habanera (hä-bi-nă'iă), n. [Sp., < Habana, Havana.] A slow Spanish dance in triple rhythm; slso, the music for such a dance.

habdalah (hāb-dā'lā), n. [Heb.: ha, the, b'dālah, (bdad, separate.] A religious ceremony among orthodox dews at the close of the Sabbath. On returning home from the synagogue the master of the house light a special wax taper, fills cup with wine, and tron, beginning with. "This is the God of my salvation, in whom I trust and will not be arisd!". "God is my strength and song, and he became my salvation, etc. He then pronounces a blessing on the wine; an ornamented, chased, or carved spice-box is produced, of which all the members of the household smell; and the following blessing is pronounced: "Blessed thou art, O God of the universe, who created all kinds of spices."

Abbeas or or put and respondendum, a writ by which a person was removed out of the custody of one court in that of another to answer to a sult in the latter. It was also employed to compel the production of a person is morphisoned by virtue of the fudgment of one court was brought into another court to charge him in execution upon a judgment of the latter.

habenal (ha-be'nal), a. [NL. *habenalis, < L. habena, a thong, strap, rein, (habere, holds as the close of the kill. habena, a thong, strap, rein, (habere, holds as the close (hak'l-shēt), n. The mount of the court of the latter.

habenal (ha-be'nal), a long the resource of the special production of a person is morphisoned by virtue of the fudgment of one court was brought into another court to charge him in execution upon a judgment of th

habenal (ha-bé'nal), a. [NL. *habenalis, < L. habena, a thong, strap, rein, <habere, hold: see have.] Same as habenar. Buck, Med. Handbook, H. 152.

Habenular ganglion. See *ganglion habe-

nulæ.

Haberlia (ha-ber'li-ä), n. [NL. (Dennstedt, 1818), named in honor of Karl Konstantin Haberle (1764-1832), professor of botany at Pesth.] A genus of dicotyledonous trees of the family Anacardiaceæ. See Odina.

habilla (ä-bē'lyä), n. [Amer. Sp., dim. of Sp. haba, broad bean, < L. faba, bean.] 1. The sand-box tree, Hura orepitans, and especially its seeds which are a drastic sathartic. Called

its seeds, which are a drastic cathartic. Called also javilla. See Hura and sand-box, 3.—2.

collar at the back, designed to go under the neck of the dress and keep the collar in place. Dyvour's habit, in Scot law, a habit which bank-rupts were compelled to wear unless in the bankruptcy proceedings it was alleged and proved that the insolvency was the result of misfortune. Bankrupt dealers in an illicit trade were condemned to wear the habit in any event. Bouvier, Law Dict.—Land of steady habits, the State of Connecticut.

habitancy, n. 2. Inhabitants collectively. De Quincey.

Habitat group, a sum of plant species affiliated by their requiring similar environments. Pound and Clements. Habitual time. See *time1.

habituation, n.-Error of habituation, See *error of

habutai (hä'bö-tī'), n. [Jap. habutaye.] A Japanese silk.

hache (häsh), n. [F. hache, an ax: see hatchet.] A paleolithic stone implement, called originally lang de chat, evidently used for a great variety of purposes. Also called coup de poing (de Mortillet), and Chelleau implement.

This is Paleolithic workshop was represented by a

dense layer of flint chips, which had evidently never been disturbed since the materials were operated upon, for Mr. Spurrell was able to piece many of the flakes, and to demonstrate that the object sought was the manufacture of haches.

J. Geikie, The Great loe Age, p. 637.
hacienda-piece (äth-i-ān'dā-pēs), n. A private that the object sought was the manufacture of the Lethean water to the Hadean shore, The fare was just a penny,—not too great, The moderate, regular, Stygian statute rate.

hacking 1, n. 4. In pathol., the emission of a hadromerine (ha-drom'e-rin), a. [Hadromesuccession of short coughs.—5. In massage, rina.] Resembling sponges of the order Hathe act of striking the muscles with the side of dromerina; having a massive form.

victor Hackman of Helsingfors.] A member of the sodalite group of minerals which occurs in pale reddish-violet dodecahedrons in the rock called tawite from the Tawa valley, Kola Peninsula, Lapland. It is near sodalite in composition but contains also the radical Nas.

A member of its ancestral history. See *recapitulation, 3, and Hackel's *law.

Hæmamœba (hem-a-mē'bš), n. [NL., < Gr. alµa, blood, + NL. amæba.] 1. The typical genus of the family Hæmamæbidæ. H. malariæ (Plasmodium quartanæ) is the cause of quartan fever in man. See *malaria, with hackmatack, n. 2. The juniper, Juniperus communis.

hackney, n. 2. Specifically, a breed of horses which combines thoroughbred blood with that of the English shire horse or cart-horse and also also javilla. See Hura and sand-box, 3.—2. In Central America, Lens phaseoloides, or its seeds. See Entada, sea-bean, 1, and *lens, 5.

habit, n., 1. (d) In petrog., the general appearance of a rock given by the texture and the mode, that is, the mineral composition. Bocks may have the same habit and not agree closely in composition.

6. A small piece of linen attached to a woman's hack-saw (hak'sâ), v. t. To cut with a hack-saw (hak'sâ), v. t. To cut with a hack-saw (hak'sâ), v. t.

hack-saw (hak'sâ), v. t. To cut with a hack-saw.— Hack-sawing machine, a power-machine employing a reciprocating hack-saw and used for cutting metal rods, bars, and pipes. Two types are in use. In one the saw is operated by an oscillating frame, and in the other it is directly connected with a rod and crank-pin on a wheel, suitable nechanism being provided for holding the saw to its work on the draw or backward stroke and allowing it to run free on the return stroke, and for allowing for the wear of the saw. Feed-mechanism is also used to bring the rod to be cut to the vise, locking it in the vise while the cut is made, and releasing the saw and the vise while the next length is fed to the saw. The depth and length of cut are adjustable.

hackthorn (hak' thôrn), n. [S.AF.D. haakedorn, hook-thorn.] A South African thorny, leguminous shrub, Acacia detinens, which is considered sacred by some of the native tribes. Called also wait-a-bit thorn.

hack-tree (hak'tre), n. Same as hackberry, 2. haddock, n. 2. A name wrongly applied to Pseudophycis barbatus and Mertuccius australis allied to the family Gadidæ or codfishes. The European species of Merluccius is known as the hake.— New Zealand haddock, a gadold fish, Meriuccius australis, found in Australian waters. 559

Hades: as, Hadean realms.
When Charon's boat conveyed a spirit o'er
The Lethean water to the Hadean shore,
The fare was just a penny,—not too great,
The moderate, regular, Stygian statute rate.
J. G. Sazz, Money King, l. 188.
hadrome (had'rom), n. [Gr. dδρός, strong, +
E.—ome.] The xylem or woody part of a vascular bundle. lar bundle.

Hadromerina (had'rō-me-rī'nā), n. pl. [NI.., (Gr. åóρός, thick, large, + μέρος, part, + ina².]
An order of monaxonidan Demospongiæ, usually of massive form, sometimes stalked or cup-shaped, of compact structure, with the skeletal framework radiate or without order, and the spongin absent or very feebly develop-ed. It includes several families, among them the Coppatiidæ. Clionidæ, and Subcritidæ.

hadromerine (ha-drom'e-rin), a. [Hadromerina.] Resembling sponges of the order Hadromerina; having a massive form.
hadromin (had'rō-min), n. [Formation not ascertained.] An aldehyde substance said to accompany natural vanillin.
Hadropterus (ha-drop'te-rus), n. [NL., \langle Gr. $d\delta\rho\delta\zeta$, thick, $+\pi\tau\epsilon\rho\delta\nu$, wing (fin.)] A genus of theostomatine perches or darters, containing some of the largest and most active species of the group. They are small fishes, olivaceous in of the group. They are small fishes, olivaceous in color, with large black blotches on the sides, found in the bottom of clear streams in the Mississippi valley. H. asprois the common black-sided darter.

hadrosaurid (had-ro-sa'rid), n. One of the

hadrosauroid (had-rō-sâ'roid), a. and n. I. a. Resembling or allied to Hadrosaurus.

II. n. A saurian having affinities with Hadrosaurus.

hackle-bench (nak r-bench), n. A bench or table for supporting hackling-pins.

hackle-sheet (hak'l-shet), n. The movable apron, or sheet, to which are attached the hackling-pins of a hackling-machine.

hackmannite (hak'man-īt), n. [Named for Dr. Victor Mackmannite (hak'man-īt), n. [Named for Dr. Victor Mackman of Helengefors] A member of the individual organism is a recapitulation, of its ancestral history. See *recapitulation* gist, especially his opinion that the life-history of the individual organism is a recapitulation of its ancestral history. See *recapitulation,

aiµa, blood, + NL. amæba.] 1. The typical genus of the family Hæmanæbidæ. H. malariæ (Plasmodium quartanæ) is the cause of quartan fever in man. See *malaria, with cuts. Grassi and Feletti, 1890.—2. [l.c.] An organism of this genus. Also hemanæba.—H. mamaculata, a non-pigmented variety of H. præcox.—H. præcox. Same as Plasmodium malignum.—H. relicta, a protozoan blood parasite of the sparrow.—H. sub-immaculata, a protozoan blood parasite of the hawk.—H. sub-præcox, a protozoan blood parasite in the owl, lark, and other birds.—H. vivax. Same as Plasmodium testianæ.

Hæmamœbidæ (hem-a-mē'bi-dē), n. pl. [NL., < Hæmamœbidæ (hem-a-mē'bi-dē), n. pl. [NL., < Hæmamæba + -idæ.] A family of Hæmosporidia, consisting of amœboid organisms found mostly in the red blood-corpuscles. It includes Halteridium, found in birds, causing fever and sometimes death; Hæmamæba, the cause of malaria in man; and other forms parasitic in frogs, cattle, and other animals.

animals.

The Italian observers have found that all three species of the human \$H\$\overline{E}\$man\$\overline{\pi}\$et are cultivable in Anopheles claviger and not only in this but in other Italian species of Anopheles, while they . . . have failed to cultivate the parasites in Culex.

L. O. Howard.

hamatinone (he-mat'i-non), n. Same as have a supersymmetric than the same and the

matinum.

Hæmocytozoa (hem-ō-sī-tō-zō'š), n. pl. [NL., ⟨ Gr. aiμa, blood, + κίτος, a hollow (a cell), + ζωον, animal.] Same as *Hæmosporidia.

Hæmogregarina (hem -ō-greg-a-rī'nā), n. [NL., (Gr. aiµa, blood, + NL. Gregarinā.] A genus of Hæmosporidia, typical of the family Hæmogregarinidæ. It is parasitic in reptiles, amphibians, and fishes. Danilewsky, 1885.

Hæmogregarinidæ (hem-ö-greg-a-rin'i-de), n. pl. [NL., < Hæmogregarina + -idæ.] A family of blood-parasites of the order Hæmospori dia. The typical genus is Hæmogregarina.

Hamosporidia.

Hamosporidia.

Hamosporidia.

Hamosporidia.

Hamosporidia.

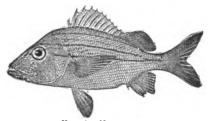
Gr. alμa, blood, + σπορά, seed (spore), + dim. -ιδιον.] An order of Sporozoa, the members of which are parasitic in the blood of fishes, amphibians, and reptiles. The trophozotite is generally a vermiform hæmogregarine, which passes its early stages in a blood-corpuscle, but becomes free when full-grown. There appears to be no alternation of hosts, the entire-cycle of development being passed in the body of one animal. This order contains the genera Lankestrella, Karyolysus, and Hæmogregarina. Danilevsky.

Hamosporidia my hem first parasitic in the seems Lankestrella, Karyolysus, and Hæmogregarina. Danilevsky.

Hamosporidia my hem first parasitic in the blood of hosts, the entire-cycle of development being passed in the body of one animal. This order contains the genera Lankestrella, Karyolysus, and Hæmogregarina. Danilevsky.

hamosporidian (hem'ō-spō-rid'i-an), a. and n.
I. a. Of or pertaining to the Hæmosporidian.—2. A general designation of the pathogenic Protozoa that live and multiply in the corpuscles of the red blood of mammals, and give rise to malaria. See *malaria.

Hæmulidæ (hē-mū'li-dē), n. pl. Hæmulidæ (hē-mū'li-dē), n. pl. [NL., < Hæmul(on) + -idæ. Cf. Hæmulonidæ.] A family of sparoid fishes, typified by the grunts, which constitute the genus Hæmuler. constitute the genus Hæmulon. They differ from the Sparidæ in having the teeth all pointed; from the Lutianidæ in having no teeth on the vomer; and from



Hamulon Macrostomu (From Bulletin 47, U. S. Nat. Museum.)

the Serranidæ in having the maxillary bone or side of the upper jaw alipping under the edge of the preorbital bone. The species are widely diffused in tropical seas and are valued as food. The family is often called Pristiponatidæ. The typical genus is Hæmulon.

hamuloid (hem'ū-loid), n. Any fish of the family Hæmulidæ.

hagbaha (häg-bä'hä), n. [Heb., < gabah, lifting.] The elevation of the open sacred scroll (torah) after the reading of the *parasha (which see). When it is thus exposed to the view of the congregation, all stand up and recite the following: "And this is the law which Moses placed before the children of Israel," etc.; "This is a tree of life to them that grasp it," etc. All ceremonies in connection with the reading of the law, including the hagbaha, are considered meritorious, and are performed by prominent members of the synagogue.

synagogue.

hagbrier (hag'brī-er), n. The hispid green-brier, Smilax hispida, the stems of which are thickly set with long, straight, slender spines. It ranges from Ontario to North Carolina, and westward to Minnesota and Texas.

haggadah, n. 3. The Jewish ritual for the inst two nights of Passover. It contains extract from the Bible and the Talmud treating of the exodus from Egypt, also praise, including hallel (Pa. citi.-cvil.), and prayer for future redemption.

hagiasterium (hā'ji-as-tē'ri-um), n.; pl. hagiasteria (-§). [NL., ⟨Gr. ἀγιαστήριον, a sanctuary, ⟨ ἀγιάζειν, make sacred, ⟨ ἀγιος, sacred: see hagiology.] In early Latin arch., the sanctuary, as distinguished from the choir occupied by the singers.

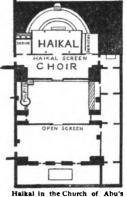
hagiolater (hā-ji-ol'a-ter), n. [Gr. $\dot{a}\gamma\iota\sigma\varsigma$, saint, + $-\lambda \dot{a}\tau\rho\eta\varsigma$, -worshiper.] A saint-worshiper. F. P. Cobbe.

hahanui (hä-hä-nö'ē), n. [Hawaiian.] A spiny, bristling shrub, Cyanea ferox, of the family Campanulaceæ, with dissected leaves and purplish-blue flowers.

Hahnemannism (ha'ne -man-izm), n. The medical theories of Dr. Hahnemann; homeopathy.

haigua (hī'gwä), n. [Nootka haigua, also spelled hiagua, hiagua, higua, hyagwa, in Chinook jar-gon hykwa, hyakwa.] The Dentalium shell used by the Indians of the North Pacific coast of America for ornaments. Sometimes the surface of the shell was decorated with delicate carvings. It was valued according to its size, the value being determined by the number of shells required to make a string one fathom in length. The shortest kind was also called coopcoop or kopkops (Chinook ikupkup).

haikal (hī'käl), n. [Coptic.] In churches of haikal (hi'käl), n. [Coptic.] In churches of the Levant, a sacred place, usually distin-guished from the choir. In the Coptic churches of Egypt it forms an important member of the plan and is in some cases covered with a cupola which is richly adorned, having mosaics or paintings. See cut in next column.— Haikal Screen, in churches of the Levant, a decorative and elaborate screen-wall which shuts off the haikal from the body of the church. In churches of the Greek rite the screen is called iconostants.



tracts covered with hall which are characteristic of severe hail-storms, especially in France. They generally ite parallel to one another and to the general path of the storm, leaving between them lanes of little hall but of heavy rain and destructive winds. hail-cannon (hāl'kan-on), n. A small cannon or tube set vertically and furnished with a conical prolongation. The distribution of the storm of the st

or tube set vertically and turnished with a conical prolongation. The discharge of a few ounces of gunpowder in the cannon sends a vortex-ring of snoke rapidly upward to an altitude of about 1,000 feet. Such cannon have been extensively used since 1890 in southern Europe, under the mistaken belief that numerous discharges of them will prevent injurious hailstorms. See *grelifuge cannon.

hail-cloud (hal'kloud), n. A cloud from which hail falls; that portion of a cumulus cloud which represents the so-called hail-stage and within which the temperature is at freezing-point, the cooling due to expansion being just counterbalanced by the evolution of the latent

heat of freezing water from the drops of rain that are being frozen.

hail-gage (hāl'gāj), n. A special form of rain-gage constructed to separate the hail from the rain-water and allow of the separate measurment of each.

hailing-port (hāl'ing-pōrt), n. The name of the port from which a vessel hails, required by law to be painted on the stern of all documented vessels in the United States; the port in which the managing owner of the vessel lives, or which is nearest to his place of resi-

dence; the home port of a vessel.

hail-shooting (hal'shö'ting), n. The firing of cannon for the purpose of dissipating hail-storms or preventing hail: beneficial results of this practice have not been demonstrated. The firing of hailweed (hāi'wēd), n. Dodder, especially the thyme-dodder or the flax-dodder. Also hair-

haimarada (hī-mā-rā'dā), n. [Arawak.] dernia diffusa, a herbaceous plant of the family Scrophulariacese, native of South America. In Guiana it is used as medicine in fevers, dysentery and disorders of the liver.

Haimea (hā'mē.ä), n. pl. [NL.] The typical genus of the family Haimeidæ. Milne-Ed-

Haimeidæ (hā-mē'i-dē), n. pl. [NL., < Haimea + -idæ.] A family of protaleyonacean Alcyonaria, consisting of solitary polyps with or without spicules. It contains the genera Haimea, Hartea, and Monozenia.

hainberry (hān'ber"i), n. Same as hindberry. hainite (hīn'īt), n. [G. hain, grove (see def.), + -ite².] A silicate, allied to wöhlerite in composition, occurring in slender, colorless to yellow, triclinic crystals: found in phonolite of the Hohe Hain ('high grove') in northern Bohemia.

hair¹, n.—Beaded hair. See *beaded.—Collecting hairs, the hairs on the styles of certain composite plants the function of which it is to collect the pollen as it falls from the anthers.—Curied hair, hair from animals manes and talls steamed and twisted, when hot, into rope, and afterward untwisted and picked apart, making a light springy material for upholstering.—Fine hair, an inner

and finer hair or down, found on skins, which sometimes remains after the coarser hair is removed.—In the hair, with the hair remaining: said of skins.—Peppercorn hair, the hair of some African negroid tribes: named from the small spirals which it forms, beginning at the root. The closeness of these spirals gives the impression that the hair grows in tufts, although the roots are quite requiring in the small spirals which it forms, beginning at the root larly distributed.—Ringed hair a kind of gray hair in which the affected hair is marked by segments of white alternating with the normal color. Also called tricknossiversicolor.—Salamander's hair, the mineral asbestos.—Thetis's hair, a name given by C. T. Jackson to quart which contains fine needle-like inclosures of actinolite or asbestos. The fibers are generally straight, but penetrate the mass in several directions.—True-wool hair, the hair of a sheep's fleece, which possesses the textile properties of a serrated surface, curliness, and elasticity, the typical example being that from the merino sheep.

nair¹, v. i. 2. To form fine fibers, as syrup, when tested by dripping.

rapidly melting away.

hail3, n. The various responses made by naval officers at night to the sentry, by which latter may learn the rank of the officer approaching the vessel, are as follows:

Flag-officers answer "flag-officers answer many of the ceptain gives the name of his ship; the ward-room officers answer, "No, no!" and petty officers and warrant officers answer, "No, no!" the steerage and warrant officers answer, "No, no!" and petty officers and members of the crew answer, "Hello!" Yachtsmen have adopted this code with a slight modification.

hail3 n. The various responses made by naval when tested by dripping.

hair-ball (hār'bāl), n. A small pellet or a large concretion, composed chiefly of hair, found in the stomachs of animals which have the habit of licking themselves or other animals. See bezoar and *heterolith. Yearbook U. S. Dept. Agr., 1897, p. 501.

Hair-comber's disease. See *disease.

Hair-cord (hār'kū-ti-kl), n. A fabric woven with very fine lines or stripes, usually running lengthwise. Also called hair-line.

hair-cuticle (hār'kū-ti-kl), n. The outer layer

hair-cuticle (har'kū-ti-kl), n. The outer layer

hail3, v. t.—To hail the ball, to throw or drive the ball to the goal; win the goal. N. E. D. [Scotch.]
hail-backed (hāl'bakt), a. Having a broad stripe of white running from the back of the neck to the root of the tail: said of cattle.
hail-band (hāl'band), n. One of the narrow tracts covered with hail which are character.

hair-cuticle (hãr'kū-ti-kl), n. The outer layer of cells of a hair. See hair.

hair-drawn (hãr'drân), a. Drawn out as fine as a hair; characterized by over-refinement or nicety: as, hair-drawn dialectics. Schaff.

hair-felt (hãr'felt), n. Felt made of animal hair.

quently developed.

hair-grass, n.—Bearded or long-awned hair-grass, Mulanbergia capillaris, a species which bears a large light-purple panicle with alender, spreading branchs and very delicate pedicels, the flowers also with a slender awn. This grass is found in saudy or rocky solis in the eastern United States.—California hair-grass, Dechampsia holcifornia, a much stouter plant than the Eastern species of the same genus. Also the slender hair-grass, D. clongata, and the cat-like hair-grass, Declaycina.—Oat-like hair-grass, Sec California *hsir-grass.—Silvery hair-grass, a low, tufted grass, Airs caryophyllea, nearly related to Deschampsia. It shing panicle gives a silvery tinge to fields where it abounds. It is a European plant, of no value agriculturally, into-duced into the eastern United States and into California thair-grass.—Tufted hair-grass, Deschampsia cæspitosa, a European and North American grass found in the northern United States and especially abundant in the Rocky Mountains. It is of little agricultural value, but

American grass found in agricultural value, but from its tussock-forming habit is useful in building up and giving firmness to low, wet ground. The stems in rural England have been made into door-mats, and furnish a fiber. Also hassock-grass.—Water hair-grass. See water-hair-grass.—Wavy hair-grass.—Wavy hair-grass, Deschampeia decuosa, a more delicate European and American species, worthless except in woodland pastures. The leaves are fillern the hyperches in woodland pastures.
The leaves are filiform, the branches of
the panicle hair-like,
often flexuous.

airhoof (hãr' höf), n. [One of the numerous variants of hairif.] The woodruff.

Tufted Hair grass (Deschampsia caspitosa). a, plant, one fourth natural size; the spikelet, enlarged; c, florets, still more enlarged.

Asperula odorata, spiket, enlarged; c, florets, hairhound (hâr' hound), n. Same as hoar-hound (b).

hair-line, n. 3. Same as *hair-cord. hair-moss (har'mos), n. Same as haircap-moss. hair-moth (har'moth), n. One of the clothes-moths, Tincola biseliella, whose larva feeds on hair and woolen goods.

hair-peg (har'peg), n. A straight hair-pia with an ornamental head. A. M. Earle, Costume of Colonial Times, p. 122.

roots: as, hair-rooted cirro-stratus. Also called of Constantinople is styled hakām pasha. tailed cirrus by Clayden, and cirrus caudatus Hakatist (hä-kä-tist'), n. [G. ha, H, + ka, by Clayton.

K, + te, T, + -ist. The letters are the initials

hair-scale (har'skal), n. One of the modified hair-like scales which occur on different parts of the body of certain lepidopterous and trichopterous insects.

hair-shot (hār'shot), n. In billiards, a shot which barely moves the first object-ball; also,

which barely moves the first object-ball; also, one which barely misses the second.

hair-slip (hār'slip), n. A place on a green skin where the grain has become decayed, enabling the hair to slip. Flemming, Practical Tanning, p. 265.

hair-slipped (hār'slipt), a. Marked by places where the grain has decayed: said of skins. Flemming, Practical Tanning, p. 265.

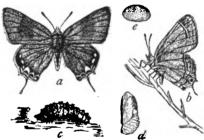
hair-snake (hār'snāk), n. A nematoid worm, Gordius, parasitic in insects in its early stages and frequently found in damp places or in pools when mature. Also known as hairworm and horsehair-snake, from the popular superstition that it is a hair that has metamorphosed into a worm.

into a worm.

hair-stone (har'ston), n. Quartz penetrated
by slender crystals of rutile, amphibole, or
other mineral species. Also called Venus
hair-stone and fièche d'amour.

hair-stone and flèche d'amour.

hair-streak, n.— Acadian hair-streak, an American butterfly, Thecla acadica, occurring from New England to Montans and up and down the Pacific coast. Its larve feed on the willow.—Banded hair-streak, a lycenid butterfly, Thecla calanus, occurring throughout the northern United States east of the Rocky Mountains. The upper surface of the wings is dark brown and the under surface alate-brown. Its larve feed on the leaves of the oak and the hickory.—Coral hair-streak, an American lycenid butterfly, Strymon titus, of wide distribution within the United States. Its larve live on the wild cherry and the plum.—Gray hair-streak, an American lycenid butterfly, Uranotes melinus, occurring through-



Gray Hairstreak (Uranotes melinus),

a, butterfly; b, butterfly with wings closed; c, larva from side; d, pupa; c, egg; all slightly enlarged except c, greatly enlarged. (Howard and Chittenden, U. S. D. A.)

out the United States. Its larve feed on the bean, hop, hawthorn, St.-John's-wort, and hound's-tongue.—Great purple hairstreak, an American lycenid butterfly, Altides
halesus, the largest of the eastern hairstreaks, expanding
nearly two inches. Its larve feed on the oak.—Least
purple hairstreak, an American lycenid butterfly,
Calycopic ecrops.—Olive hairstreak, an American hesperiid butterfly, Mitoura damon, occurring in the southern United States, where its larve feed on the red cedar
and the smilax.—Striped hairstreak, an American
lycenid butterfly, Thecla liparops, wide-spread in the
United States east of the Rocky Mountains. Its larve
live on the oak, willow, shad-bush, and blueberry.—
White-M-hairstreak, an American lycenid butterfly
cocurring throughout the southern United States, ranging
as far north as New Jersey, Pennsylvania, and Ohio. Its
larve live on the oak and the milk-vetch.
hairstrong (hār'strong), n. Same as harstrong.

hairstrong (har'strong), n. Same as harstrong. hair-weed (hār'wēd), n. 1. Any hair-like alga. See mermaid's-hair.—2. Same as *hailweed. hair-whorl (hār'hwèrl), n. A more or less spirally arranged ridge of hair, produced by the meeting of hairs running in different directions.

rections.

hairy-back (hãr'i-bak), n. Any fish of the family Trichonotidæ, found in the western Pacific.

Pacific.

hairy-tongue (hār'i-tung), n. Hypertrophy of the filiform papillæ of the tongue: it gives to the surface a hairy appearance. Buck, Med. Handbook, III. 291.

hai-tsai (hi-tsi'), n. [Ohinese, < hai, sea, + ts'ai, weed.] A seaweed, Gloiopeltis tenax, and a gelatin prepared from it. The gelatin is used in the manufacture of lanterns to strengthen or varnish the paper, and to give gloss to silk or gauze. Windows of split bamboo crossed diagonally have their rhombic openings filled with a film of it as a substitute for glass. S.—36

of the three founders of the league. Von Hansemann, Von Kennemann, and Von Tiedemann.] A member of the league organized in Germany for the support of Prussian measures against the Poles in Posen. N. and Q., 9th ser., IX. 145, 374. hake², n.—White hake, a small fish of the family



White Hake (Urophycis tenuls). (From Bulletin 47, U. S. Nat. Museum.)

Gadids, or codishes. Urophycis tenuis, a common species, is found off the New England coast. Others are found in the same region and in Europe.

hako (hä'kō), n. [Pawnee.] A ceremony of the Pawnee Indians, intended to benefit certain individuals by bringing to them the promise of children, long life, and plenty, and establishing at the same time a bond between the persons taking part in it, thus insuring friendship and peace between different clans or tribes. Alice C. Fletcher, 22d Rep. Bur. Amer. Ethnol., II. 14.

The expression "hako" is used to describe the whole of

Amer. Ethnol., II. 14.

The expression "hako" is used to describe the whole of the articles employed in the ceremony, which are two feathered stems of ash wood from which the pith is burnt out; an ear of white corn; three sticks of plane tree; owl and eagle feathers; the heads of two woodpeckers; the head, neck, and breast of two ducks; a wild cat skin; fat from a consecrated deer or buffalo; an oriole's nest; and other objects. . . The two feathered stems are treated by the tribe with great reverence, and always deposited on the wild cat skin when not in use. One symbolizes the sky, the other the earth. The ear of corn represents the fruitfulness of the earth, and is called "mother." This seems to indicate an origin for the ceremony among agricultural tribes, though it has been adopted by the hunting tribes. It does not appear, however, that the rites were performed at any stated time, or had any connexion with planting or havesting.

Athensum, May 20, 1906, p. 628. hala (hä'lä), n. [Hawaiian.] The native screw-

hala (hā'lā), n. [Hawaiian.] The native screw-pine of the Hawaiian Islands, Pandanus tecto-

pine of the Hawahan Islands, Pandanus tectorius. Coarse mats are made of the leaves. halachist (hā-lāch'ist), n. One who is learned in the halachah (which see).

Halælurus (ha-lē-lū'rus), n. [NL., < Gr. ἀλς, sea, + αἰλουρός, cat.] A genus of sharks of the tropical Pacific, belonging to the family Scyliorhinidæ.

halah (chā'lā), n.; pl. halōth (chā'lōt). [Heb., \(\triangle halal, \text{ perforated.} \] A cake; originally, a loaf used in offerings (Num. xv. 20 et passim) loaf used in offerings (Num. xv. 20 et passim) and now partaken of at the three meals of Sabbaths and festivals. As now used it is a well-baked, elongated, and twisted loaf, thick in the middle and tapering toward the ends, with poppy-seed sprinkled over the top. The halah of some festivals differs in form from the ordinary Sabbath cake: for example, that used at the Roah ha-shanah festival (New-Year's day) is made in the form of a ladder. The reason given is that, it being the season of prayer for forgiveness, the ladder symbolizes the ascension of the prayers heavenward.

halapepe (hä-lä-pā'pā), n. [Hawaiian.] A tree of the lily family, Dracæna aurea, bearing golden-yellow flowers and small yellow berries, and yielding a soft, whitish wood out of which the natives used to carve their idols.

halatinous (ha-lat'i-nus), a. [Gr. ἀλάτινος, half-hit (häf'hit), n. See *hit!.

Having the character of common salt. [Rare.]

halbling (hälb'ling), n. [G., ⟨ halb, half, +

Having the character of common salt. [Rare.] halbling (hälb'ling), n. [G., < halb, half, + dim. -ling. Cf. halfling!.] A small coin of Basel and of other Swiss and German states. halching (hal'ching), n. [halch + -ing.] The entanglement of the coils of yarn at the nose, or top, of a spinning-mule cop. Nasmith, Cotton Spinning, p. 286.

Haleciidæ (hā-lē-sī'i-dē), n. pl. [NL., < Halecium + -idæ.] A family of campanularian hydroids having the hydrothecæ reduced to shallow, saucer-shaped, pedunculate appen-

shallow, saucer-shaped, pedunculate appendages, the hydranths with conical hypostomes and the gonophores bedrioblastic. It contains the genera Halecium, Diplocyathus, and Ophi-

Halecium (hā-lē'si-um), n. [NL.] The typical genus of the family Halecidæ. Oken, 1815. half. I. a.—Half fifteen, in tennis, a point given to a supposably inferior player at the beginning of the second and subsequent alternate games of the set.—Half forty, in tennis, two points given to a supposably inferior player at the beginning of the first game, three at the beginning of the second, and so on alternately in the subsequent games of the set.—Half thirty. See *thirty.

II. n.—Half a stroke. See *stroke1.
half-arc (häf'ärk), a. Noting an electric arclamp of approximately half the usual illuminating power. In commercial practice arc-lamps supplied with from 9.5 to 10 amperes and 450 or more watts were classed as full-arc lamps; those taking from 6.5 to 7 amperes and 825 to 350 watts, as half-arcs. Also used substantively.

half-beam (haf'bem), n. In ship-building, a deck-beam which extends only part way across the vessel, being cut off at a hatchway or similar opening through the deck.

half-bird (haf'berd), n. One of the smaller ducks, such as the teal: so named because it sells for half the price of the larger species. [Eng.]

half-bit (häf'bit), n. The Spanish half-real in the British West Indies.
half-blind (häf'blind), a. Noting holes in plates (which are to be riveted together) which do not coincide or match, those of one plate being partly covered by the other plate. half-breadth (häf'bredth), n. In ship-building,

the distance of any given point on the outer skin or of the exterior line of the frames (in the latter case called molded half-breadth) to the central longitudinal plane of the vessel.

Half-breadth plan. See plan.
half-breed, n.—Bigeneric half-breed, the product of a cross between varieties of species belonging to different genera.

ent genera.

half-broad (häf'bråd), n. An English gold
coin, a double crown of James I.

half-bull (häf'bul), n. A term employed by
sealers to denote a male fur-seal from four to sealers to denote a male rur-seal from four to six years old. The largest half-bulls are practically full grown, but not strong enough to fight their way into the rookeries and establish themselves. They are dark gray in color, lacking the brownish tint characteristic of old male fur-seals. This class of seals is termed potu-sikutchi by the Russians.

half-butt (haf'but), n. A cue, used only in English billiards, the length of which is half-way between that of a long and that of an ordinary cue.

half-center (häf'sen'ter), n. The position of the crank-pin of an engine when it is midway between the two dead-centers or dead-points. half-clutch (häf'kluch), n. A jaw-clutch in which each jaw is half a cylinder, and consequently has only one driving-face for each

half-column (haf'kol'um), n. An engaged column of which only half, or about half, projects horizontally from the surface of a wall.

half-crown, n.—Newark half-crown, an English piece of Charles I., struck at the siege of Newark. half-davit (häf'dav'it), n. Naut., a fish-

ter or protection.

half-hit (häf'it'ern), n. See *hit1.
half-iron (häf'it'ern), n. In golf, a half-shot with an iron club.
half-joe (häf'jō), n. A Portuguese gold coin, originated in 1722, the half-dobra of 6,400 reis: one of the most popular gold coins of the New World in the eighteenth century.

half-lap (häf'lap), n. The metallic matrix, or bed, in which are embedded the rows of combing-needles in a cotton-combing machine.

Half-lap roller, the partof a cotton-combing machine which carries forward the combed aliver.

which carries forward the combed sliver.

half-lapped (häf'lapt), a. Lapped about one half as much as when brought to the proper position: used of rivet-holes that do not meet properly, but are half-blind.

half-lichen (häf'li'ken), n. An ascomycete which lives as a saprophyte during its early stage, but later becomes associated with algewhich, usually, have been injured.

Spheria Lemanese and Thermutis velutina are examples of half-lichens.

D. H. Campbell, University Text-book of Bot., p. 188.

half-looper (häf'lö'per), n. Any one of many noctuid larvæ which, because they do not have the normal number of prolegs, move like geometrid larvæ.

half-man (häf'man), n. On coasting-vessels, a landsman, or deck-boy. [Eng. slang.] half-moon, n. 5. A species of rudder-fish, Medialuna californiesis, found on the coast of southern California.

half-mourner (häf'mor'ner), n. An old British collectors' name for a black and white European agapetid butterfly, Melanargia galathea. Also called the marbled white.

called the marbled white.

half-noble (hät'nō'bl), n. A gold coin of Edward III. of England, and of succeeding kings to Edward VI.

half-pace, n. 2. A landing in a stair which separates two flights of stairs. It differs from quarter-pace in that it crosses the ends of both flights, so that the direction of the stairs is completely changed.

half-pany, n.—Mark Newby halfpenny. Same as St. Patrick whalfpenny.—St. Patrick halfpenny, a private copper token issued in Ireland between 1660 and 1680, with St. Patrick on the reverse: current in New Jersey in 1682.

halfpenny, n.—Mark Newby halfpenny. Same as St. Patrick *halfpenny.—St. Patrick halfpenny, a private copper token issued in Ireland between 1660 and 1680, with St. Patrick on the reverse: current in New Jersey in 1682.

New Jersey in 1682.
half-plane (häf'plān), n. Same as *hemiplane.
half-proof (häf'pröf), n. In civil law, evidence
entitled to some weight, but insufficient as
foundation for a sentence or decree.
half-rater (häf'rā'ter), n. A small yacht of
less than the unit of rating (one ton). [Eng.]

less than the unit of rating (one ton). [Eng.] (trans.), Planktonic Studies, p. 578.

half-ray (hāt'rā), n. In math., the aggregate halibiotic (hal'i-bi-ot'ik), a. [Also halobiotic; of all points of a straight which are on one as halibios + -ot-ic.] Living in the sea. of all points of a straight which are on one and the same side of O, a point of the straight. half-seal (häf'sēi), n. In Eng. law, a seal used

in the Court of Chancery to seal commissions issued to delegates appointed to hear appeals in marine or ecclesiastical causes.

half-sheet (haf'shet), n. In printing, an abbreviation of one half of a sheet of double size.

When presswork was done on a hand-press, upon sheets of small size, the sheet of octave had its pages 1, 16, 13, 4, 9, 8, 5, 12, first printed from one form on one side of the sheet. Pages 3, 14, 15, 2, 11, 6, 10, 7, were next printed on the back of that sheet, so arranged that they would fold in order as one sheet of 16 consecutive pages. This method was called sheeturise. When large machines were used for presswork the two forms were rearranged in one form to produce 16 pages at one impression on one side. Turning the paper upside down for the subsequent printing on the back of the sheet enables the pressman to back each page with its proper mate and produce two copies of 16 pages. Each half-sheet of the paper cut in who contains the same number of pages as that of the sheet, printed sheetwise.

De Vinne, Mod. Book Composition, p. 337.

A sheet which specific proposition, p. 337.

The Gulf Stream is the most familiar example that the posses of specific proposition, p. 337.

The Gulf Stream is the most familiar example that the posses of specific proposition and produce two copies of 16 pages.

A sheet printed sheetwise.

The Gulf Stream is the most familiar example that the posses were the proposition of the subsequent printing the paper upside down for the subsequent printing the paper upside for the printing for the form of Ladica for the proper paper and the paper ups

half-shoe (häf'shö), n. A shoe which covers but one side of a horse's foot: used to correct

more than a wrist or quarter shot.

half-sibling (häf'sib'ling), n. A breeders'
term for a half-brother or half-sister; the offspring of different mothers by the same sire.

The high values, however, found for half-siblings in the case of the thoroughbreds seem to indicate that we must look rather to unit prepotency than intermittent prepotency for the source of the high value of fraternal as compared with parental correlation in the case of the horse.

Biometrika, Nov. 1903, p. 391.

Half-speed shaft. See *shaft. half-spring (häf'spring), n. A spring made up of one set of leaves; a half-elliptic spring. half-sprit (häf'sprit), n. The sprit of a fore-and-aft rigged vessel, all on one side of the mast.

As she sailed before with a half-sprit, like a yacht, she sailed now with a square sail and a mizzen, like a ketch.

Defoe, Captain Singleton, xviii.

half-stopped (häf'stopt), a. In organ-building, said of pipes which are partially closed at the

said of pipes which are partially closed at the top by a lid or cover.

haif-tone, n. 3. A picture printed from a plate produced by the half-tone process (which see), or the plate itself.—Haif-tone process, a phototypographic method in which, in the process of photographing the object, a screen of netting, or a ruled glass, is interposed between the lens and the sensitized plate. From the negative thus made, a positive image is produced upon a prepared metal plate and etched into relief by acids. The screen is designed to give to the etching a texture similar to that produced by the engraver. A common, but in large manner remediable, effect of its use is an undue softening of both lights and shadows with loss of distinctness.—Half-tone screen, in photog., a sheet of glass ruled with fine lines, crossing one another at right angles, inserted in the camera about one sixteenth of an inch from the negative. It enables half-tones to be obtained in photo-engraving. The lines run from 100 to 250 per square inch. See *khalf-tone process.—Three-color half-tone process, a method of engraving in relief by photography, and

etching upon three separate metal plates of printing-surfaces of yellow, red, and blue, which are successively superimposed in printing on a typographic press, to produce the many needed combinations of color required for a truthful picture. Successful workmanship depends on life that are restricted to salt water; actually duce the many needed combinations of color required for a truthful picture. Successful workmanship depends on the ability of the photographer to detect and practically dissect the primary colors of a pictorial design, on the skill of the engraver by hand who may seek improvement in varying the cross lines on the plates that make neater combinations of colored lines, on the purity of the primary colors and accuracy of register in printing. The four-color process has the added color of black or other dark color that aids distinctness.

II. a. Noting a print or plate, produced by the half-tone process. See above.

salf-top (half top), n. Naut., a small, narrow

halibios (ha-lib'i-os), n. [Also halibius; \langle Gr. $\dot{a}\lambda_{\zeta}$, the sea, $+\beta io_{\zeta}$, life.] The animals and plants of the ocean considered collectively and in contrast with the animals and plants of fresh water and those of the land. Haeckel

as halibios + -ot-ic.] Living in the sea.
halibut, n.—Arrow-toothed halibut, the alender-bodied halibut, Atheresthes stomas, of the North Pacific, with arrow-shaped teeth.—Bastard halibut, a large flounder, Paralichthys californicus, found in the Gulf of California. It differs from the true halibut in the much smaller size and in the fact that its tail is doubly concave at the point, instead of simply lunate or forked.
Halichæres (hā-li-kē'rēs), n. [NL., prop. Halichærus, ⟨Gr. ἀλς, sea, + χοίρος, hog.] A genus of Labridæ found in tropical seas. It is characterized by the presence of 9 spines in the dorsal fin, of large scales, and of a canine tooth in the posterior part of the jaw. There are many species, highly variegated in color. H. radiatus is the pudding-wife and H. bivittatus the Slippery Dick of the Atlantic coast of the United States.

or having the characteristics of the sponges belonging to the order Halichondrina; hali-

L. currens, current.] A stream or current in mid-ocean, as contrasted with a coast current. The Gulf Stream is the most familiar example

half-shoe (haf'shō), n. A shoe which covers but one side of a horse's foot: used to correct some defect in the growth of the hoof.

half-shot, n. 2. In golf, a stroke of less distance than a full shot, and played with a half swing: less than a three-quarter shot and swing: less than a three-quarter shot and shelide salt analogous to addition the special problem of the full stream is the most familiar example of a halicurrent. Haeckel (trans.), Planktonic Studies, p. 625.

half-shoe (haf'shō), n. A shoe which covers its familiar example of a halicurrent. Haeckel (trans.), Planktonic Studies, p. 625.

half-shot, n. 2. In golf, a stroke of less distance than a full shot, and played with a half common salt; haloid: thus, potassium iodide is a halidurent. Haeckel (trans.), Planktonic Studies, p. 625. a halide salt analogous to sodium chlorid or a native sait analogous to sodium chlorid or common salt.—Halide acid, an acid corresponding to a halide, or haloid, salt, containing hydrogen in place of the electropositive element or radical of the salt, as hydrochloric acid from sodium chlorid, or hydriodic acid from potassium iodide. Jour. Physical Chem., April, 1904, p. 302.

Halieutæa (hal'i-ū-tē'ä),n. [NL., < Gr. άλιευτής, otherwise αλιεύς (άλιευτ-), a fisher, a seaman, < άλιεύειν, fish.] A genus of frogfishes of the family Ogcocephalidæ, found in the deep waters

ft.

A spring made If-elliptic spring.
e sprit of a foreone side of the halfest (hal-i-ū-tel-'ā), n. [NL., ⟨Gr. aλιευτής, a fisher, + L. -ella.] Agenus of frogfishes of the family Ogcocephalidæ, found in the deep waters of the Atlantic.

halleutic (hal-i-ū-tik), a. [Gr. αλιευτικός: see

halieutics.] Of or pertaining to fishing.

Halieutichthys (hal'i-ū-tik'this), n. [NL.. \langle Gr. $\dot{a}\lambda\iota\iota\upsilon\tau\dot{\eta}\varsigma$, fisher, $+i\chi\theta\dot{\iota}\varsigma$, fish.] A genus of frogfishes of the family Ogcocephalidæ, found in the deep waters off the West Indies.

halieutics, n. 2. That branch of practical the leave $(fishing \delta a mark)$ which treate of the

in the deep waters off the West Indies.

halieutics, n. 2. That branch of practical theology ('fishing for men') which treats of the theory of the extension of Christian missions; the science of Christian missions, specifically, of foreign missions.

Halieuting (hal-i-ū'nē), n. pl. [NL., ⟨ Halieuting (hal-i-ū'nē), n. pl. [N

genus Halieutma

haligi (hä-le gò), n. [Also (Sp.) haligui, Tagalog and Bisaya haligi.] In the Philippine Islands, one of the wooden posts or piles on which the native houses are built.

haligraphy (ha-lig'ra-fi), n. [Gr. $\hat{a}\lambda_{\zeta}$, salt, + halisteresis.
--\text{-\text{pa\(\harpha\)}}(\eta, \gamma\) \pa\(\harpha\) write.] A discussion of the halitherioid (hal-i-th\(\harpha\)'ri-oid), n. and a. I. \(harpha\) sources, properties, etc., of saline substances. A sirenian mammal allied to Halitherium.

limnetic, but phylogenetically marine. Also halolimnic. See *halibiotic.

The fauna of Lake Tanganyika is to be regarded as a double series, one-half consisting of forms which are found everywhere in African fresh waters, the other of what we may call halolimnic organisms, which are found nowhere else in the world, at least so far as is at present known.

J. E. S. Moore, quoted in Internat. Year Book, 1898, p. 270.

halimeter (ha-lim'e-ter), n. [Gr. ἀλς, salt, + μέτρου, measure.] An apparatus for determining the strength of a saline solution; specifically, a device for estimating the amount of water in beer by determining the quantity of salt the beer will dissolve.

halimetric (hal-i-met'rik), a. [halimetr-y + -ic.] Of or pertaining to halimetry or the halimeter. [Rare.]

halimetry (ha-lim et-ri), n. [Gr. αλς, salt, + -μετρία, < μέτρον, measure.] Determination of the strength of a saline solution. [Rare.] halimous (hal'i-mus), a. [Gr. άλμος, of the sea (< άλς, the sea), + -ous.] Having relation to the sea, to sea-water, or to common salt. Rare.

haling-hand (hal'ing-hand), n. One of a pair of heavy gloves or woolen mittens used to protect the hands of sailors and fishermen on the Maine coast, while hauling heavy cables, etc.. frequently double lined in the palms with leather. A. M. Earle, Costume of Colonial Times, p. 122.

halinous (hal'in-us), a. [Gr. ἀλινος, of salt, ζ ἀλς. salt.] Having relation to common salt. [Rare.]

haliplankton (hal-i-plangk'ton), n. [Gr. 24, the sea, + NL. plankton.] The floating and swimming organisms of the ocean, considered collectively and in contrast with the organisms that float or swim in fresh water; the plant-ton. Also haloplankton. See *plankton and *limnoplankton. Haeckel (trans.), Planktonic Studies, p. 580.

Halisarca (hal.i-sär'kä), n. [NL.. \langle Gr. $\dot{\omega}_{\kappa}$, the sea, + $\sigma \dot{a} \rho \xi$ ($\sigma a \rho \kappa$ -), flesh.] The typical genus of the family Halisarcidæ. Dujardin.

Halisarcidæ (hal-i-sär'si-dē), n. pl. [NL., (Halisarca + -idæ.] A family of hexaceratine triaxonian sponges, having the flagellated chambers syconate and the skeletal structures absent. It contains the genera Halisarca and Bajulus.

Halisaurus (hal-i-sâ'rus), n. [NL., < Gr. &c, sea, + σανρος, lizard.] A genus of marine reptiles, referred to the Mosasauridz, based on incomplete material from the Cretaceous of New Jersey: a synonym of *Baptosaurus.

Haliseris (ha-lis'e-ris), n. [NL., (Gr. aκ, the sea, + σέρις, endive, chicory.] The correct form for Halyseris (which see).

sea, + στάσις, standing.] The tract of quiet water within the



Haliserites Reichii, one nalt naturisize. (From Sternberg's "Flora des Vorwelt.")

+ στέρησις, deprivation, ζ στερείν, deprive.]
Deprivation of salts; specifically, loss of the mineral constituents of bone which cause

osteomalacia.

halisteretic (ha-lis-te-ret'ik), a. [halisteress (-et-) + -ic.] Relating to or affected with

II. a. Resembling Halitherium.

c nature, craw ou or out. I the Jewish cere-mony of taking off the brother-in-law's shoe. According to the command (Deut. xxv. 5-10), the brother-in-law who refused to marry the widow of his brother who died without child was obliged to appear before the elders at the gate, where the ceremony of taking off the shoe was performed. The formula is still in use, as other-wise the widow, according to Jewish law, is forbidden to marry.

haller (hal'er), n. [G. dial. variant of heller.]
A small copper coin of the Swiss canton of

Halleyan line. See *line2.
halliblash (hal'i-blash), n. A great fire.
[Prov. Eng.]

'Oh-go long wi yo!' said Hannah in high wrath. 'He an his loike Il mak a halliblash of us aw soon, wi their silly faddle, an pamperin o' workin men, wha never wor an never will be noa better nor they should be.'

Mrs. Humphry Ward, David Grieve, iv. 11.

hallopodous (ha-lop'ō-dus), a. Of or pertaining to the Hallopodidæ; of the nature of the Hallopoda.

ng to drive out his opponents men from their position and to replace them with his own.

halmatogenesis (hal'ma-tō-jen'e-sis), n. [Gr. āλμα(τ-), a leap, + γένεσις, production.] In biol., the sudden appearance of new characters in animals or plants. Same as saltatory or discontinuous *variation.

or discommunus *variation.

halo, n.—Diffraction halo. See *difraction.—Hering's halo, in psychophys., the bright fringe which surrounds the dark after-image of a bright object seen on a dark background: an effect of brightness contrast. E. C. Sanford, Exper. Psychol., p. 161.

Halobia (ha-lō'bi-ā), n. [NL., ⟨ Gr. āλς, sea, + βloς, life.] A genus of prionodesmaceous pelecypod mollusks, characterized by the absence of an auricle. It is very abundant in

sence of an auricle. It is very abundant in the Triassic rocks.—Halobia shales. See *shale2. halobiotic (hal'ō-bī-ot'ik), a. Same as *hali-

biotic.

halochromism (hal $-\bar{\phi}$ - krōm 'izm), n. [Gr. $\hat{a}\lambda\omega$, a halo, $+\chi\rho\bar{\omega}u$, color, + -ism.] The property possessed by certain organic compounds of forming highly colored salts with colorless acids and without themselves underscibes acids and without themselves underscibes acids and structure.

pearance as of a colored circle surrounding a light: one of the signs of glaucoma.

halotechnic (hal- $\bar{\phi}$ -tek'nik), a. [Gr. $\bar{a}\lambda\zeta$, salt, $+\tau\dot{\epsilon}\chi\nu\eta$, art, +ic.] Concerned with the extraction, preparation, and use of saline substances, as of common salt.

In connection with this subject reference may be made to some recent work of v. Baeyer and Villiger on dibenzylidene acetone and triphenyl methane. They refer to the constitution of colouriess substances which form highly coloured salts, and term the phenomenon halochronism.

Rep. Brit. Ass'n Advancement of Sci., 1902, p. 119. halogenate (hal'ō-jen-āt), v. t.; pret. and pp. halogenated, ppr. halogenating. [halogen + -ate².] To introduce a halogen atom into (a compound); especially, to substitute a halogen for hydrogen in an organic compound.

A restatement of the view that the reactivity of the halogens in ortho- and para-halogenated nitrobenzenes is due to the assumption of the elements of a molecule of water by the nitro-group, with subsequent intramolecular changes, leading to the production of a tautomeric form of a nitrophenol with the loss of a molecule of a haloid acid.

Nature, Feb. 12, 1903, p. 358.

halogenize (hal'ō-jen-īz), v. t.; pret. and ppr.
halogenized, ppr. halogenizing. [halogen + -ize.]
In chem., to cause (a substance) to combine
with or to take up one of the halogen elements, as chlorin or bromine. Smithsonian Rep., 1890,

haloidite (hal'oi-dīt), n. [Gr. άλς, salt, +εlδος, form, + -ite².] In petrog., a term applied by Wadsworth (1892) to rock-salt.

halometer (ha-lom'e-ter), n. [Gr. ἀλς. salt, + halurgist (hal'er-jist), n. [halurg-y + -ist.] μέτρον, measure.] An instrument for measuring the form, angles, and plane surfaces of halurgy (hal'er-ji), n. [Gr. ἀλς, salt. + ἐργον, work.] The manufacture of salt: salt-work-

Belonging or relating to the fossil plant-form called *Halonia* (which see).

halophil (hal'ō-fil), a. Same as halophilous. Also halophile.

halophilism (ha-lof'i-lizm), n. [halophil+-ism.] The character of being halophilous.

I found a close correspondence between the halophiliem of the plant and the power of its root-hairs to resist plasmolysis. W. F. Ganong, in Bot. Gazette, Nov., 1903, p. 354.

halophilous, a. 2. In zoöl., inhabiting salt marshes and sea-coasts.

It seems that littoral Myriopods are much more frequent than is generally supposed, but the author distinguishes accidental halophilms forms (three species of Lithobius found in Normandy by Gadeau de Kerville).

**Jour. Roy. Micros. Soc., April, 1904, p. 180.

Hallstattian (häl-stät'i-an), a. [G. Hallstatt, in Austria, where extensive remains characterizing this period were found, +-ian.] In prehistoric archæol., noting the first period of the iron age.

hallucar (hal'ū-kir), a. [L. hallux (halluc), the great toe, +-ar³.] Belating to the hallux or great toe; hallucal. [Rare.]
hallucination, n.—Collective hallucination, in peychol, a hallucination experienced similarly and simultaneously by a number of persons similarly situated.
hallucinative (ha-lū'si-nā-tiv), a. Hallucinations.
Hallux dolorosus, a condition associated with flat-foot in which pain is felt in the great toe when an attempt is made to walk.—Hallux rigidus, stiffness of one or oboth of the joints of the great toe.—Hallux valgus, deviation of the great toe.—Hallux valgus, deviation of the great toe outward, so that it overlaps the other toes.—Hallux varus, deviation of the great toe outward, so that it overlaps the other toes.—Hallux varus, deviation of the great toe outward, so that it overlaps the other toes.—Hallux varus, deviation of the great toe outward, so that it overlaps the other toes.—Hallux varus, deviation of the great toe,—Hallux varus, deviation,—Hallopsychidæ,—Hallopsychidæ,—Hallopsychidæ,—Hallopsychidæ,—

the fins broadened at the back, and gills and the yard is hoisted.

proboscis absent. It includes the genus halysitid (ha-lis'i-tid), n. One of the Halysiproboscis absent.

Halopsyche.

halosauroid (hal-ō-sâ'roid), a. Of or belonging ham1, n.—Beef ham. Same as collared beef (which see, to the family Halosauridæ. Proc. Zool. Soc. under collared).

London, 1897, p. 268.

hamamelidaceous (ham-a-mō-li-dā'shius). a.

Halosauropsis (hal' $\bar{\phi}$ -så-rop'sis), n. [NL., $\langle Gr. \hat{a}\lambda c$, sea, $+ \sigma a\bar{v}\rho c$, lizard, $+ b\psi c$, appearance.] A genus of deep-water eel-shaped fishes of the family Halosauridx. Also called Ab

halo-symptom (hā'lō-simp'tom), n. The ap-

stances, as of common sait.

halotechny (hal'ō-tek'ni), n. [Gr. ἀλς, sait, + τέχνη, art, + -y³.] The art of extracting, preparing, and using common sait and other saline substances. [Rare.]

halter², v. t. 2. To hang with a halter; hang. halter-cast (hâl'têr-kâst), a. Said of an animal which has been thrown by becoming entangled in its halter.

Halterididæ (hal-te-rid'i-dē), n. pl. [NL., < Halteridium + -idæ.] A family of Sporozoa, of the order Hæmosporidia, which contains the genera Halteridium and Polychromophilus. The former is found in the blood of birds and the latter in that of bats.

Halteridium (hal-te-rid'i-um), n. Gr. $d\lambda \tau / \rho$, a balancing-weight in leaping, (NL. halter (see halter³), + Gr. dim. -doo.) 1. A genus of Hæmosporidia which consists of haltershaped organisms parasitic in the blood-corpuscles of common birds. The typical genus of the family *Halterididæ*. Labbé, 1894.—2. [l. c.] A protozoan of the genus Halteridium.

Ross further showed that the mosquito which served as an intermediate host for this parasite could not transmit the malarial parasite of man or another similar parasite of birds (halteridium).

G. M. Sternberg, in Pop. Sci. Mo., Feb., 1901, p. 367.

halitosis (hal-i-tô'sis), n. [NL., < L. halitus, breath, +-osis.] Offensive breath. halitsa, chalitza (cha-lit'sā), n. [Heb. halitsa, chalitza (cha-lit'sā), n. [Heb. halitsa, chalitza (cha-lit'sā), n. [Heb. halitsa, chalitsa, chalitza (cha-lit'sā), n. [Heb. halitsa, halolimnic (hal-ō-lim'nik), a. Same as *hali-halitkah, (hā-lō'kā), n. [Also chaluka; Heb. halitkah, ⟨ hālak, divide.] The annual and other contributious sent by Jews for the support of their brethren in the Holy Land. It is divided according to the decision of the Jewsha the refusad to marry the widow of his brother.

work.) The manufacture of salt: salt-working. T. Ross, trans. of Humboldt, Travels, III. xxxi. N. E. D.

halved, a. 2. In golf, having the same score on each side: as, a hole is halved when each side takes the same number of strokes; a match is halved when both sides have won the same or have proved the same number of holes, or have proved

equal; etc.

halving (hä'ving), n. The act of dividing anything into halves or sharing by halves; specifically, the act of putting together two pieces of material, as wood, by cutting away half of the thickness of each and lapping them

pleces of material, as wood, by cutting away half of the thickness of each and lapping them one upon another, when a pin or nail or glue may hold them fast.

halving-joint (hä'ving-joint), n. A joint made by *halving (which see).

halyard, n.— Ensign-halyards, the line or whip by which the ensign is run up or holsted to the peak of the gaff or to the head of the flag-staff.— Flying-jib halyards, the purchase used to hoist the flying-jib along it a stay.—Jib-halyards, the tackle used in holsting the jib. The power of the purchase is adapted to the weight of the sall and ranges from a single whip to a double and single block.—Jib-o-jib halyards, the halyards used in holsting the jib-o-jib.—Royal-halyards, the purchase by which the royal-yard is hoisted.—Smoke-stack halyards, a sailors name for the cog-wheel or other mechanism by which telescoping smoke-stacks are hoisted.—Staysal-halyards, the purchase by which a staysall is run upon its stay.—Studdingsail-halyards, the whip which is bent to the studdingsail-halyards, the whip which he latter is hauled out to the yard-arm.—Topgallant-halyards, the purchase which is used to hoist the topgallant-yard after the topgallantail has been sheeted home, so that the canvas will be flattened or extended to the wind.—Topsail-halyards, these halyards are the heaviest of any for hoisting yards. They pass over large gin or tie-block sheeves abaft the respective masts, and in order to get a big purchase are rigged or rove as follows: on one side of the deck a long pendant is shackled, which reaches to the top; then a long drift of chain is shackled in, which leads through the gin-block, or topsail it-block, and thence toward the deck, and to this end, some distance above the deck a purchase is secured by means of which the yard is hoisted.

halysitid (ha-lis'i-tid), n. One of the Halysitide

hamamelidaceous (ham-a-mē-li-dā'shius), Belonging or pertaining to the plant family Hamamelidaceæ.

hamathionic (ham'a-thī-on'ik), a. [Gr. âna, together, + btīov, sulphur, + -on + -ic.] Noting an acid, a syrupy compound, C₁₂H₁₈SO₁₆, formed by the action of sulphuric acid on euxanthic acid.

hamatum (hā-mā'tum), n.; pl. hamata (-tā). [NL., neut. (sc. os, bone) of L. hamatus, hooked: see hamate.] The outermost bone in the second row of carpals, commonly called unciform (which see).

hambergite (ham'berg-it), n. [Named after A. Hamberg, a Swedish mineralogist.] A hydrated beryllium borate, Be₂(OH)BO₃, occurring in grayish-white orthorhombic crystals:

found in southern Norway.

Hambleton oblite. See *oblite.

hame¹, n.—Concord hame, a bent-wood harness-hame, strengthened by a strap of iron on the outside.

haminura (ham-i-nū'rā), n. [Said to be S. Amer.] A large food-fish, Hoplias malabaricus (Macrodon trahira), of the family Erythrinidæ,

inhabiting fresh waters of South America. **Hamitoid** (ham'i-toid), a. [Hamite + -oid.] ln ethnol., similar to the Hamites; especially, of a Hamitic type which is influenced by negro blood.

Hamito-Semitic (ham'i-tō-sē-mit'ik), a. Relating to the peoples speaking Hamitic and Semitic languages which are considered mem-bers of one linguistic stock.

hamlet², n. 2. Gymnothorax moringa, an eel of the family Murænidæ.

hamlinite (ham'lin-īt), n. [Named after A. C. Hamlin, an American mineralogist.] A phosphate of aluminium and strontium with fluorin and water, occurring in colorless rhombohedral crystals: found at Stoneham, Maine,

Eng. law, a small inclosed field or meadow; a closed vard adjoining a house.

hammada (ham'a-dä), n. [Ar.] desert upland or plateau. [Sahara.]

The composition and influence on the hydrography of the hammada, or Cretaceous and Tertiary plateaux of the hammada, or Cretaceou the higher and lower Sahara.

Geog. Jour. (R. G. S.), XVI. 225. Hammarbya (ham-är'bi-ä), n. [NL. (Kuntze, 1891), named in commemoration of Hammarby, the villa of Linnæus in the suburbs of Upsala.] A genus of monocotyledonous plants belonging to the family Orchidaces. See Ma-

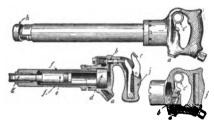
hammel² (ham'l), n. A shed of about 150 feet area opening into a small courtyard, employed in Great Britain for feeding cattle singly or at most by twos.

hammel-feeding (ham'l-fe'ding), n. The system of feeding (nam'i-fe'ding), n. The sys-tem of feeding cattle in hammels. It has the advantage over stall-feeding and box-feeding (feeding free in an inclosure about 10 feet square and 12 feet high) of permitting the animal air and exercise, and also requires less litter. It has the

These objects are attained by the system of hammel-feeding, as it is termed. A hammel consists of a small shed, etc.

Fream, Complete Grazier (14th ed., 1900), p. 171.

hammer¹, n., 2. (j) In athletics, a 16-pound weight (or a 12-pound weight for school-boys), attached by ball-bearing to a wire handle, which competitors, standing in a marked circle, endeavor to throw as far as possible. The old-fashioned hammer had an ordinary stiff wooden handle.—Boller-marker's hammer, a hammer resembling the bridge-builder's hammer, but with shorter and larger heads.—Bordeaux hammer, the headache following a debauch [Colloq.]—Bridge- or ship-builder's hammer, a heavy hammer with two long heads with small faces.—Coppering-hammer, a boat-builder's hammer with a large flat face and curved peen ending in a claw.—Corrigan's hammer, a metal disk attached to a wooden hammer-shaped appliance, formerly employed, when heated and applied to the skin, to cause rubefaction or a blister: similar in principle and application to Corrigan's button (which see, under button).—Duplex hammer, same as double hammer (which see, under hammer).—Interchangeable hammer, a long-handled tack-hammer having a head with a long alender peen. The head is a permanent magnet and can be used to pick up a tack by its head and hold it in position for driving.—Pneumatic hammer, a hammer operated by compressed air. It has an automatic valve which alternately



a, inlet for compressed air by flexible hose; b, throttle-valve controlling entrance of air; c, trigger for operating throttle by thumb of operator; c', trigger for operating throttle by forefinger of operator; d', valve-box, carrying valve which admits air to cylinder, drives piston out for working stroke, and retracts it; c, piston sliding in working-cylinder, and acting as hammer; f', channel by which air gets to front of piston to drive it back; g, shank of cutting-tool or riveting-set or swage; h, riveting-set or swage; f, handle-grip.

admits and exhausts the air so long as a trigger is kept pressed down by the thumb or forefinger of the workman.

—Revolving hammer, a form of trip-hammer in which a revolving cam makes the hammer strike a quick succession of blows.—Slater's hammer. Same as saz1, 2 (which see).—Wagner hammer [from P. Wagner], an automatic electromagnetic interrupter which constitutes the buzzer of du Bois-Reymond's inductorium.

hammer¹, v. I. trans. 5. To declare (a member) to be in default, after notice by hammering these times on the routerum. [Stock.]

ing three times on the rostrum. [Stock-exchange slang, Eng.] —6. To beat down or

depress (price or the market); bear.

II. intrans.

4. To make a knocking noise, as a steam-pipe when steam is let on and a water-hammer is produced. See water-ham-

hammer-action (ham'er-ak'shon), n. In piano-

forte-making, a collective name for the parts which compose and control the hammers.

hammer-block (ham'er-blok), n. The steel face of a steam-hammer which is fastened to the tup by a dovetailed-joint. Various kinds of hammer-blocks can be used, the form depending on the work to be done.

hammer-break (ham'er-brak), n. of ignition for internal-combustion motors where an arc is formed by separating two surfaces between which the current passes when they are in contact. When the gap is formed between them, an arc or stream of sparks crosses the gap and fires the charge. The movable element is often shaped like the head of a hammer, and the sparks pass as the hammer is lifted from the anvil on which it has rested.

A stony hammer-butt (ham'er-but), n. In pianofortemaking, the block, pivoted upon the action-rail, into which the base of a hammer-shank is fitted. See cut under pianoforte. hammer-check (ham'er-chek), n.

hammer-catcher and check1

hammer-cuterer and check., 10.

hammerclavier (ham'er-kla-vēr), n. One of the early forms of the pianoforte.

Hammerd pottery. See *pottery.

Hammer-fish oil. See *oil.

hammer-head (ham'er-hed), n. In pianofortemaking, the padded projection of the hammer

which strikes against the string.

hammerless (ham'er-les), a. [hammer +
-less.] Having no hammer or no visible hammer: applied, specifically, to a breech-loading small arm in which the cartridge is fired by the action of a firing-pin or a concealed hammer.

hammer-palsy (ham'er-pâl'zi), n. roalsy.

hammer-rest (ham'er-rest), n. In pianoforte-making, the rail which extends through the action from side to side and against which the hammers rest when not in use. Als called spring-rail. See cut under pianoforte.

hammer-shank (ham'er-shangk), n. In pianoforte-making, the slender rod or shank of wood which bears the hammer-head. See cut under pianoforte.

cut under pianoforte.

hammersmith (ham'er-smith), n. One who
works or forges metal with a hammer; particularly, one who works large forgings under
a steam-hammer.

hammer-tail, n. 2. In pianoforte-making, the
backward projection of a hammer-head, designed to engage with the check.
hammer-toe (ham'er-to) n. A deformity of

hammer-toe (ham'er-to), n. A deformity of one of the toes, commonly the second, marked by ankylosis of the joints—the proximal in extension, the distal in flexion.

extension, the distal in flexion.

hammochrysus (ham-ō-kri'sus), n. [L.; also ammochrysus, ⟨ Gr. ἀμμοχρυσος (only in Pliny and later Latin writers), ⟨ άμμος, sand, χρυσός, gold.] In Pliny and later writers, a name probably designating a yellow mica schist or the sand yielded by it.

hammock¹, n.—Up all hammocks! The command to lash hammocks and bring them on deck for stowing in the hammock-nettings.

hammock-nettings (ham'ok-ber'thing), n.
Naval, a box-like structure built above the
deck at the side and forming bulwarks, or in
the interior against the side, in which the
hammocks are stowed when not in use. See

cut under frame, 6.
hammock-box (ham'ok-boks), n. Naval, a
large box in which are stowed hammocks for which there is not room in the hammock-

berthing.

hammock-carriage (ham'ok-kar'āj), m A

vehicle in which the passenger is carried in a
hammock swung between two posts attached
to the axles. [Madeira.]

to the axies. [Madeira.]
hammock-lines (ham'ok-līnz), n. pl. Naut.,
sets of cords at each end of a hammock, by
which it is hung up. Also called clues.
hammock-moth (ham'ok-môth), n. A South
American moth, Perophora sanguinolenta,
whose larva constructs a portable habitation

from its own excrement.

hammock-rail (ham'ok-rail), n. Naut., the rail around the long troughs, known as hammock-nettings, built on top of the bulwarks. hammock-stanchions (ham'ok-stan'shonz). n.

pl. Naut., iron shapes to which are secured the hammock-rails. These stanchions are fixed either the hammock-rails. These stanchlons are fixed either on the main rail of the ship or on the plank-sheer or covering-board.

namo (ha'mō), n. [Jap.] An eel, Murænesox cinereus, of the family Murænesocidæ, found in the waters of Japan. hamo (hä'mõ), n.

Hampstead beds. See *bed1.
ham-tail (ham'tal), n. A tail (of a horse)
shaped like a ham.
hamular, a. II. n. The hamular process or slender curved end of the pterygoid. [Rare.]

The bulke are so flattened that when viewed from behind **hand-iron** (hand 'i'orn), n. A tinman's stake.

. they appear to rise scarcely above the level of tips of See stake¹, 5. . . . they appear to rise scarcely above the level of tips of hamulars. Annals and Mag. Nat. Hist., May, 1901, p. 450.

hana-kago (hä'nä-kä'gò), n. [Jap., < hana, flower, + kago, basket.] In Japan, a flower-

basket. time to time. hanch² (hanch), v. t. and i. To snap at handle, n. 4. The feel or touch of goods hanthreateningly, as a wild or infuriated animal. dled. C. Vickerman, Woollen Spinning, p. 266. hanch² (hanch), v. t. and i. To snap at

Several men had been terribly torn by the bloodhomds, who, when their masters had fled, noble brutes as they were, stood gasping and barking; and Aanching at us, at the entrance of the opening, thus covering their retreat;—spouting out in a bound or two towards us every now and then, and immediately retiring, and yelling and barking at the top of their pipes.

M. Scott, Cruise of the Midge, p. 12

Same as hancockite (han'kok-it), n. [Named after E. P. Hancock of Burlington, New Jersey.] A. One of member of the epidote group, peculiar in containing lead and strontium, found at Franklin

Furnace, New Jersey.

hand, n.—An old hand. (a) One who has had long experience: as, he's an old hand at that game. (b) One who in the early days of Australian history, had been a convict.

In the early days of Australian nistory, use occurs a constitution of the men who had been convicts are termed old hands; they are mostly rude rough men with no moral principle or religious feeling.

T. Mc Combie, Australian Sketches, quoted in E. R. Morfris, Austral English

A taut hand, naut., an officer who is a strict disciplinarian.—Book hand, a style of penmanship suitable for books, as distinct from ordinary curvive forms of writing.—Broken hand, in bridge, a hand in which the strength is distributed; one in which there is no suit long enough to be made the trump.—Buddha's-hand, a cultivated variety of the citron, Citrus medica, in which the individual carpels of the fruit are partially separated, often for half their length, and each is covered by the highly aromatic, oily rind; the whole fruit bearing a rough resemblance to the human hand. This fruit has an important place in Japanese and Chinese mythology and is very often used as a decorative design in ceramics and other works of art.

Huge bowls of rare old porce-

Huge bowls of rare old porce-lain held pyramids of fruits— apples, sweet-smelling quinces, and the highly perfumed "Bud- (Buddha's-hand). Reduced. dha's-hand."

Katharine A. Carl, The Century, Nov., 1906, p. 45.

Katharine A. Carl, The Century, Nov., 1906, p. 45. Cleft hand. See *kcleft.— Comparison of hands. See *kcomparison.— Complete hand, in poker, a hand from which cards have been discarded and to which other cards have been discarded from the constant of the hands down, with case; easily: as, to win the race hands down.— Hand under hand, the natural movement of the hands when descending a rope without employing the feet.—Original hand. In card-playing: (a) A hand which has not been discarded from. (b) In poker, the hand before the draw.—Plano hand, in whist or bridge, an easy hand to play.—Younger hand, in card-playing: (a) The opposite of eldest hand; the second player on the first trick. (b) In pique, the dealer.

hand, v. t.—To hand over, to deliver.
hand-box (hand'boks), n. In hort., a small box, usually of wood, with a sliding pane of glass, used for setting over individual plants or hills of plants in order to force them ahead of their sees on or to protect them. I. H. Rai. of their season or to protect them. L. H. Bailey. See *forcing-hill.
hand-canter (hand kan ter), n. An easy, slow

canter. In racing it is understood to refer to an early victory. If the winner come in at a hand-canter it means that he is so much ahead of his competitors that there is no longer necessity to gallop—that victory is assured.

handcuft, handcuft. Simplified spellings of handcuff, handcuffed. hand-dynamometer (hand'dī-na-mom'e-ter),



Hand-dynamometer.

In physiol. and psychophysics, a dynamometer, of an oval shape, commonly used to measure the force of grip or squeeze of the hand. E.B.

Titchener, Exper. Psychol., I. ii. 167.

hand-grenade, n. 2. A fire-extinguisher consisting of a glass bottle filled with chemicals.

handhold, n. 3. In car-building, an iron bafirmly fixed to the side or end of a freight-car to assist trainmen in boarding it: a grab-iron. to assist trainmen in boarding it; a grab-iron.

handicap, n.—Flying handicap, a race in which the starting-post is passed at full speed.

handing (han'ding), n. Making work which is symmetrical, on the right and the left hand. with respect to an assumed plane of symmetry.

hand-lamp (hand'lamp), n. In elect., an arclamp without automatic feed, in which the adjustment of the carbons is made by hand from

handle-bar (han'dl-bār), n. In a bicycle or motor-cycle, the curved bar in front of the rider by which the vehicle is guided by the hands. In the motor-cycle many of the controlling devices are affixed to the handle-bar. handle-piano (han'dl-pi-an'ō), n. A mechanical pianoforte operated by a handle or crank, as a street_niano. as a street-piano.

as a street-plano.

hand-light (hand'lit), n. A hand-glass; a
bell-shaped glass used to shelter young seedlings and cuttings from rain and wind: not in
general use in the United States.

Hand-lights are freely used in the market gardens of this district (the vicinity of Evesham and Pershore) for the protection of cucumbers and vegetable marrows.

Encyc. Brit., XXVIII. 582.

Hangman's knot. See *knot1.

handling-room (hand'ling-rom), n. In a war-ship, an ammunition handling-room; a comparment immediately adjacent to those in Stream, Feb. 21, 1903, p. 143. ship, an ammunition handling-room; a comparment immediately adjacent to those in they open. The lower ends of the ammunition-hoists are in the handling-rooms and the ammunition is passed from the magazines into the handling-rooms to be loaded into the hoists. See cut under **turret*.

hand-me-down (hand'me-doun'), a. Same as

dling floating logs.
hand-rest (hand'rest), n. The T-rest on a
hand-lathe: so called because used as a rest for a hand-tool in turning and to distinguish it from an automatic or slide-rest.

handscrew, n. 2. A carpenter's clamp.
handscrew, handscrew,

handspoke (hand'spok), n. A long spoke or bar fitted at each end for the hand; specifi-cally, one of the two used in Scotland in carry-

As soon as the skin is received by the glove maker it is immediately staked by the hand stake, which consists of two upright and two horizontal bars, one of the latter being movable to admit the skin, which is held in position by a wedge inserted at the end of the bar. The stretching is then done by pressing over the skin so placed a blunt iron like a spade, having round corners and a handle which fits under the arm.

Sec. Amer. Sup., Jan. 24, 1908, p. 22629.

hand-stamp (hand'stamp), n. Any form of marking-, printing-, or impressing-stamp used by hand.

hand-tree (hand'tre), n. Same as handflower-

hang, v. I. trans.—To hang up. (c) To hitch or tie up (a horse) to a post, a tree, or the like. [Colloq. Australia] hang, v.

The mail-boy is waiting impatiently in the verandah, with his horse hung up to one of the posts.

B. W. Hornung, quoted in E. E. Morris, Austral English.

II. intrans. 13. In cricket, to come from the pitch at a perceptibly decreased rate of speed: said of a ball bowled. Hutchinson, Cricket, p. 67.—Hanging ball, bits, glader, ite, valley. See *ball*, etc.

hang-down (hang'doun), n. A bearing which is suspended from a roof or beam by a hang-

18 SUSPENDED FROM a FOOT OF DEAM BY A HANG-ing bracket; a hanger.

hanger, n., 5. (f) A vat in which skins are tanned
by being suspended in the liquor. Modern Amer. Tanning,
p. 78. (g) A long loop or looped rod which hangs from
a transverse beam attached to a foundry crane, and which
receives the trunnlons of a molding-flask slung therefrom. hanger, n.,

haplology

- Expanding hanger. (b) An adjustable hanger; a hanger having adjustments to allow for taking up wear and to keep the shaft in line even though the building settles.

haplology

- A short loose over-jacket or -coat worn in Japan.

hanging-drop (hang'ing-drop), n. The minute portion of nutrient solution suspended from a slide or cover-glass and usually inclosed in a cell, in which bacteria and other micro-organisms are cultivated.

parment immediately adjacent to those in swhich ammunition is stored and into which they open. The lower ends of the ammunition-hoists are in the handling-rooms and the ammunition is passed from the magazines into the handling-rooms to be loaded into the hoists. See cut under **sturret*.

In distance in the form of hanks or skeins. It is carried out both by hand and by machiners to the hoists. See cut under **sturret*.

Also called **skein-dyeing*. Georgievics* (trans.), Chem. Technol. Textile Fibres, p. 205. The process handmaid-moth, n.—Walnut handmaid-moth, (trans.), Chem. Technol. Textile Fibres, p. 205.

Datana integerrima, an American species whose larve hank-indicator (hangk'in'di-kā-tor), n. A dedamage forest trees of different kinds. vice attached to some textile machines for registering the amount (in hanks) of their pro-duction. *Thornley*, Cotton Combing Machines,

hand-me-down (name my reach-me-down.

hand-out (hand'out), n. In hand-ball, hand-tennis, and similar sports, the condition of the game when the striker is out and the players change places.

A piked lever, change places.

A piked lever, mite (hand'pik), n. A piked lever, middle United States. Jordan and Evermann, Fishes of North and Middle Amer., p. 1199.

Hannekin defense. Same as Berlin or Prussian *defense.

hand-specimen (hand'spes'i-men), n. A specimen of rock or mineral not too large nor too small to be conveniently handled for purposes of study. The standard size for rocks is 1 by 4 by 3 inches.

handspike (hand'spik), v. t.; pret. and pp. handspike, ppr. handspike; as recorded in Hanssard, and thus convict him of inconsistency [Colloq., Eng.]

handspike (hand'spik), v. t.; pret. and pp. handspike, as recorded in Hanssard, and thus convict him of inconsistency. [Colloq., Eng.]

hansom, n.—Cape hansom, a hansom-cab with a bow top, fitted with a pole like a Cape cart.

Hants. A contraction of ancient Hantesshire (now Hampshire).

top, fitted with a pole like a cape care.

Perhaps he did not know me—no, he could not, or he never would have handspiked me.

Marryat, Snarleyow, vi.

handspoke (hand'spōk), n. A long spoke or bar fitted at each end for the hand; specifically, one of the two used in Scotland in carrying a coffin to the cemetery, or from the hearse to the grave. Also called handspike.

The coffin, covered with a pall, and supported upon handspikes by the nearest relatives, now only waited the father to support the head.

Scott, Antiquary, xxii.

hand-square (hand'skwãr), n. A modification of the squaring-machine, operated by hand, for the preliminary shaping and truing of tiles. See *rubbing-bed.

hand-stake (hand'stāk), n. In glove-making, a tool used for stretching skins. See the extract.

As soon as the skin is received by the glove maker it is immediately taked by the hand stake, which consists of immediately taked by the hand stake, which consi



Modern Russian Hanukah Lights.

every adult male is obliged to light them at home immediately after the evening prayer. One candle, lamp, or taper is lighted the first night, two on the second, and so on until the eighth night. An additional light, called shamash ('servant'), serves to supply the light to the others. Two such lights are sometimes placed in modern

haoma (hä'ō-mä or hou'mä), n. [Avestan haoma = Skt. soma: see soma².] Same as homa and soma2.

On the position of the Haoma in the Avesta of the armees. Smithsonian Rep., 1890, p. 91.

Women under their umbrellas wore the graceful short overcoat they call haori, and tottered over the wet ground on high wooden pattens.

La Farge, Artist's Letters from Japan, p. 274.

hapaxanthic (hap-aks-an'thik), a. [Gr. âπαξ, once, + ἀνθεῖν, bloom, + -ic.] Same as *hapaxanthous.

axanthous.

hapaxanthous (hap-aks-an'thus), a. [Gr. ἀπαξ, once, + ἀνθείν, bloom, + -ous.] In bot., having only a single flowering-period: applied to herbs which after once seeding die throughout. Such plants may be annual (monocyclic) or biennial (dicyclic). F. E. Clements.
haphalgesia (haf-al-je'si-š), n. [NL., < Gr. ἀφη, touching, + ἀλγησις, the feeling of pain.] A condition of hyperæsthesia in which the slightest touch causes pain.
haplite n. Haplite proper is a grante free, or nearly

est touch causes pain.

haplite, n. Haplite proper is a granite free, or nearly free, from muscovite or any dark silicate. The name is also applied by Rosenbusch and other petrographers to the highly feldspathle members of the syenite, monzonite, and diorite families, such rocks being usually called syenite-haplite, diorite-haplite, etc. This extension of the term is connected with the belief that such haplitic rocks are differentiation products of syenitic, monzonitic, or dioritic magmas. The rocks in question often occur in dikes and possess the panautomorphic granular texture, and these features enter into the definitions given by Rosenbusch.

haplitic (hap-lit'ik). a. [Also aplitic:

haplitic (hap-lit'ik), a. [Also aplitic; < haplite + -ic.] In petrog., pertaining to or having the characters of the rock called haplite.

haplobacteria (hap-lō-bak-tō'ri-ā), n. pl. [Gr. aπλόος, siugle, + NL. bacteria.] Unicellular bacteria of the ordinary rod, spiral, or spherical form, as contrasted with the *trichobacteria (which see).

Hanot's cirrhosis. See *corrhosis.

Hansard² (han'sărd), n. [Hansard, one of the original compilers.] The official report of the proceedings and debates of the British parliament.

Hansardize (han'săr-dīz), v. t.; pret. and pp. hansardized, ppr. hansardizing. To confront

teria (wnich see).

Haplocheilus (hap-lō-kī'lus), n. [NL., also Aplocheilus; \langle Gr. $d\pi\lambda \delta o_{\zeta}$, single, $+ \chi \epsilon i\lambda \delta_{\zeta}$, the proceedings and debates of the British parliament.

Hansardize (han'săr-dīz), v. t.; pret. and pp. hansardized, ppr. hansardizing. To confront

the proceedings and debates of the parliament.

Hansardize (han'sär-diz), v. t.; pret. and pp. hansardized, ppr. hansardizing. To confront (a member of parliament) with his previous utterances on some question, as recorded in Hansard, and thus convict him of inconsistency. [Colloq., Eng.]

hansom, n.—Cape hansom, a hansom-cab with a bow top, fitted with a pole like a Cape cart.

Hants. A contraction of ancient Hantesshire (now Hampshire).

Hanukah (chā' nō-kā), n. [Also Chanukah, Hanukah, < hanak, dedicate.]

Chanuca. Heb. hanūkah, < hanak, dedicate.]

Chanuca. Heb. hanūkah, < hanak, dedicate.]

Chanuca. Heb. hanūkah, < hanak, dedicate.]

Haplocrinus (hap-lok'ri-nus), n. [NL., ζ Gr. anλόος, single, + κρίνου, a lily (see crinoid).]
A genus of inadunate or larviform crinoids typical of the family *Haplocrinide*, of which it is the only representative. It has a small pyriform cally in which there are three compound and two simple radials, uniserial and non-pinnulate arms. It occurs in the Middle Devonian.

Middle Devonian.

Haplodinotinæ (hap' [ō-di-nō-ti'nē), n. pl. [Haplodinotus + -inæ.] A subfamily of freshwater drums, typified by the genus Haplodinotus (or Aplodinotus).

Haplodoci (hap-lod'ō-si), n. pl. [NL., < Gr. ἀπλόος, single, + δοκός, a beam, bar.] A suborder or group of fishes, typified by the toad-fishes or Batrachoididæ. It is characterized by the peculiar structure of the pectoral arch. haplodonty (hap'[ō-don-ti), n. [haplodont*

haplodonty (hap'lō-don-ti), n. [haplodont + -y³.] The condition or fact of having molar $-y^3$.] The condition or fact of having molar teeth with simple crowns. See haplodont. haplohedral (hap- $1\bar{o}$ - $h\bar{o}$ -dral), a. [Gr. $d\pi\lambda\delta\sigma$, single, $+\hat{e}d\rho\alpha$, base, +-al.] In mineral., noting the asymmetric or pediad group of the triclinic system in which each form has one face only. See *symmetry.

haplogamic (hap-lo-gam'ik), a. Pertaining or

naplogamy (hap-log'a-mi), n. [Gr. $d\pi\lambda\delta o_{\varsigma}$, simple, $+\gamma d\mu o_{\varsigma}$, marriage.] A method of cell-conjugation in which the fusions of the nuclei and the chromatin are not deferred to permit the formation of vegetative cells or tissues, plasmapsis, karvapsis, and mitapsis occurring in the same cell. Vegetative tissues of haplogamic structures are composed of cells with a single nucleus and a single set of chromosomes. The alternatives of haplogamy are *apaulogamy and *paragamy.

Stringe.

Stringe.

haplology (hap-lol' $\tilde{\phi}$ -ji), n. [Gr. $a\pi\lambda\delta\omega$, single, $+\lambda\omega\gamma$ (a. $\langle\lambda\ell\gamma\epsilon\iota\nu\rangle$, speak.] The utterance of only one of two similar adjacent syllables or sounds that appear in the full pronunciation of the word. The phenomenon is a universal linguistic fact, and is parallel to that of haplography (which see). Both

The phenomena seemed related to those of haplology in the history of words, as in 'nutrix' for 'nutritrix.'

Scripture, Exper. Phonetics, p. 168.

haplome² (hap'lom), n. A member of the Hap-

**immunity.
haplome² (hap-lō'mī), n. pl. [NL., ⟨Gr. ἀπλόος, single, +ἀμος, shoulder, upper arm.] An order or suborder of fishes which is characterized by the absence of the mesocoracoid arch and of spines in all of the fins. The families contained in this group are the Pœcticidæ, or killifahes, the Esocidæ or pikes, the Umbridæ or mud-minnows, and the Amblyopsidæ or blind-fishes.

Haploscleridæ (hap-lō-sklē'ri-dō), n. pl. [NL.]

A large family of halichondrine Demospongiæ

The spleulation is of a simule type, and the microscleres.

*immunity.
haptophorous (hap-tof'ō-rus), a. [As haptophoric.
haptophorous (hap-tof'ō-rus), a. [As haptophorous (hap-tof'ò-rus), a. [As haptophorous (hap-tof'ò Haplomi² (hap-lo'mi), n. pl. [NL., Gr. aπλόος,

blind-fishes.

Haploscleridæ (hap-lō-sklē'ri-dē), n. pl. [NL.].

A large family of halichondrine Demospongiæ
The splculation is of a simple type, and the microscleres, if present, are never chelæ. It contains Halichondria, Chalina, Reniera, Spongilla, and many other genera.

haploscope (hap'lō-skōp), n. [Gr. ἀπλόος, single,

+σκοπείν, view.] In physiol. and psychol. optics, a stereoscope which presents to either eye a field invisible to the other. E. C. Sanford,

Exper. Psychol., p. 404.

haploscopic (hap-lo-skop'ik), a. [haploscope +-ic.] Pertaining to the haploscope or to its

harbor-porpoise (här'bor-pôr'pus), n.

This test is superior to the tests with haploscopic figures because it is dependent upon true psychical fusion, while the latter are dependent upon the mere matching together of divided figures.

Optical Jour., June 2, 1904, p. 963.

Optical Jour., June 2, 1904, p. 963.

Haplosporidia (hap'lō-spō-rid'i-ĕ), n. pl. [NL., pl of Haplosporidium.] An order of Sporozoa. The developmental ycle is very simple. The youngest stage of the parasite is a minute rounded corpuscle with single nucleus; as growth proceeds, multiplication of nuclei occurs, and the mass finally separates into a number of spores of uniform structure, which give rise to uninucleated corpuscles, thus completing the cycle. It contains the genera Bertramia, Haplosporidium, and Caloporidium, parasitic in worms, rotifers, and crusticeans.

Haplosporidium (hap'lō-spō-rid'i-um), n. [NL., ⟨Gr. ἀπλοος, single, + σποσά, seed (spore), + dim. -ιδιον.] The typical genus of the order Haplosporidia. Caullery et Mesnil, 1899.

haptere (hap'tēr), n. [G. hapter, ⟨ NL. hapteron.] Same as *hapteron.

hapteron(hap'te-ron), n.; pl. haptera(-ĕ). [NL., irreg. ⟨ Gr. ἀπτειν, fasten.] In phytogeog., a special organ of attachment composed of non-vascular tissue, developed by many aquatic litho-

cular tissue, developed by many aquatic lithophytes, as Podostemaceæ and marine algæ. E. Warming.

Marming.
haptic (hap'tik), a. [Gr. απτικός, ζάπτειν, touch: see apse.] Tactile; of or pertaining to haptics: as, a haptic sensation. Amer. Jour. Relig. Psychol. and Education, May, 1904, p. 33.
haptical (hap'ti-kal), a. Same as *haptic.—Haptical image. See *image.
haptics (hap'tiks), n. [Pl. of haptic.] In psychol. and physiol., the science of touch: as optics is the science of sight and acoustics the science.

the science of sight and acoustics the science of hearing. As generally used, the term includes the physiology and psychology not only of the skin and the adjoining nucous membrane, but also of the kinesthetic organs (muscles, tendons, joints).

As a general term for perceptions of touch in the widest sense, M. Dessoir [1892] suggests Haptics as an analogue of Optics and Acoustics. This he further divides into Contact-sense (including pure contact and pressure) and Pselaphesia. . . (including active touch and 'muscle sense).

E. C. Sanford, Exper. Psychol., p. 1.

haptine (hap'tin), n. [Gr. āπτευ, touch, fasten,

+-ine².] A cast-off receptor. The haptines are represented by the antitoxins, the agglutinins, the precipitins, and the amboceptors of the hemolysins, the bacteriolysins, etc. See **mmunity.

haptogenic (hap-tō-jen'ik), a. [Gr. ἀπτειν, touch, + -γεινς,-produced.] Used in the term haptogenic membrane, a hypothetical albuminous membrane which according to Ascherson surrounds every globule of fat in milk. C.E. Simon, Physiolog Chem., p. 408.

haptophil(hap'to-fil), α. [Gr απτιω, fasten, +

φιλείν, love.] Same as *haptophoric.
haptophore (hap'tō-fōr), a. [Also haptophore ⟨Gr. ἀπτιν, fasten, + -φορος, ⟨ φέρειν, bear.]
Same as haptophoric. Also haptophor.

Same as naprophoric. Also naprophor. Ehrlich's hypothesis to explain such facts is usually spoken of as the side-chain theory of immunity. He considers that the toxins are capable of uniting with the proteplasm of living cells by possessing groups of atoms like those by which nutritive proteids are united to cells during normal assimilation. He terms these haptophor groups, and the groups to which these are attached in the cells he terms receptor groups. The introduction of a toxin stimulates an excessive production of receptors, which are finally thrown out into the circulation, and the free circulating receptors constitute the antitoxin. The comparison any thrown out into the circulation, and the free circulation, repetions constitute the antitoxin. The comparison of the process to assimilation is justified by the fact that non-toxic substances like milk introduced gradually by successive doses into the blood-stream cause the formation of anti-substances capable of coagulating them.

Rep. Brit. Ass'n Advancement of Sci., 1902, p. 778.

influences appear in the history of many words. Examples are idealary for ideality, symbology for symbology, register for register, regi designate that group of cell receptors which unites with the immunizing substance. See kimmunity.

Phormium tenax.

Phormium tenax.

harbor-deck (här'bor-dek), n. See *deck, 2.
harbor-pirate (här'bor-pi'rāt), n. One who
robs vessels in port by coming alongside in a
small boat and carrying off portable articles,
such as brass belaying-pins, running-gear, etc.; a thief whose trade is to steal cargo from docks and vessels in harbor.

small porpoise or puffing-pig, Phocæna phocæna, or P. communis, frequently seen in bays and estuaries.

Harcourt air-gas pentane standard. **≭**air-gas.

hard, a., 10. (h) In vocalization, of a tone made with a rigid attitude of the vocal organs, so as to be wanting in mellowness and ympathy.

adv. BATCH, adv.—Hard ashore, said of a vessel when it is firmly fixed on the rocks or on a shoal or beach.—Hard aweather! a command to put the steering-wheel over so that the tiller will be turned toward the weather side and that the thier will be turned toward the weather side and the ships head deflected from the wind: opposed to hard alee!—Hard down! a command to put the wheel over so that the ship may be brought to the wind: op posed to *hard awadher!—Hard over! an order to the helmaman to jam the wheel or tiller over as far as

hardback (härd'bak), n. 1. Any fish of the genus Callichthys; any catfish of the family Loricaridæ, found in the fresh waters of South America.—2. In the British West Indies and British Guiana, any large beetle, especially one

of the larger Scarabæidæ.

hard-earned (härd'ernd), a. Earned with

hard-earned (härd'ernd), a. Earned with difficulty or hard work.
harden?, n. 2. A cloth of coarse fiber and texture, made from hards.
hardener, n. 2. In photog., a chemical, such as alum, which is added to the fixing-bath in the making of gelatin negatives. It prevents the dissolving of the film in warm weather.
hardening-machine, n. 2. See *heating-machine.—3. A heating-machine adapted to heating small balls, parts of machines, saw-teeth, nuts, bolts, etc., and delivering them automatic-

nuts, bolts, etc., and delivering them automatically while hot to oil or water hardening-tanks. For heating balls for ball-bearings a spiral conveyer is used to convey the balls through the furnace. Other machines employ different forms of link-belt conveyers, the aim in each type of machine being to expose the things to be heated to the direct action of the gas-fianes and to protect the conveyer as much as possible from the destructive effects of the heat. This is accomplished by supporting the things to be heated on rods which project through a slot in the bottom of the furnace, the conveyer carrying the rods being outside the furnace, or by placing refractory bricks on the conveyer.

hardening-off (härd'ning-off'), n. In hort., the nuts, bolts, etc., and delivering them automatic-

hardening-off (hard'ning-of'), n. In hort., the process of inuring or habituating a plant to untoward conditions, as to adapt it gradually to cold before removing it from a hotbed or

forcing-house. hardening-tank (härd'ning-tangk), n. A tank or bath containing oil or water in which small metal objects are hardened as they come from

the heating- or hardening-machine.

hardenite (här'de-nīt), n. A name proposed for the solid solution of iron and carbon containing 0.9 per cent. of carbon: it has the lowest transformation-point. The name has been abandoned by many authorities on iron and steel as being misleading.

Carbonists, however, hold that the pale areas are hardenite containing dissolved cementite, the dark areas being a mixture of hardenite and free cementite (M. Osmonds methods are evidently not sufficiently delicate to detect in the dark so-called martensite the constituent last named).

Nature, April 14, 1904, p. 554.

Harderian fossa. See *fossa!. hard-grass, n. 2. See *fossa!. hard-gut (härd'gut), n. Mugil dobula, a fish found in Australia. hardhack, n. 2. The hop-hornbeam, Ostrya Virginiana. [Vermont.]

11. In the Bahamas, a shrub of the spurge family, Phyllanthus Epiphyllanthus. Also called seaside laurel. See laurel, 3.

seastae tauret. See tauret, 5.
hard-horse (härd'hôrs), n. A sailors' term for a tyrannical officer.
hardie (här'di), n. [AF.: see hardy.] 1. An English billon coin of Edward III. See hard. head, 2.—2. A French copper coin of the year 1270, the liard of Philip le Hardi.

Harding sandstone. See *sandstone.

hard-meat (hārd'mēt), n. Dry fodder; corn and hay as fodder, as distinguished from grass. [Prov. Eng.]

and nay as rodder, as distinguished from grass. [Prov. Eng.]

hardness, n. 2. Water, as found in nature, containing salts of lime or magnesis or both of these in considerable quantity, is said to be hard; it curdles or precipitates soap by forming insoluble lime or magnesia salts of the fatty acids. Any lime or magnesia present in the condition of carbonate is held in solution by carbonic acid, and if this latter is driven off as carbon-dioxid gas by boiling the water, the earthy carbonates are precipitated, so that the water is to this extent softened. The part of the original hardness which is thus removable by boiling is called temporary hardness. The part due to calcium or magnesium in the condition of chlorid or sulphate is not thus removable, and is called permanent hardness constitute the total hardness. Hardness is frequently stated in degrees, each degree representing hardness equivalent to that caused by 1 grain of calcium carbonate in 1 imperial gallon of water; or, now more commonly, 1 part of calcium carbonate in 1,000,000 parts of water.

hard-spun (härd'spun), α. Compactly twisted:

hard-spun (härd'spun), a. Compactly twisted:

said of yarn.
hardtail, n. 2. See *Gila.

hardwood (härd'wud), a. and n. I. a. Having a hard wood (see hard wood, under wood, n.), as a tree; bearing trees with hard wood, as a forest; made of hard wood: as, a hardwood floor. II. n. A hardwood tree.

hardyhead2 (här'di-hed), n. An atherinoidfisb. Atherina lacunosa, inhabiting Australian waters. E. E. Morris, Austral. English. hardy-hole (här'di-hōl), n. A rectangular hole

in a blacksmith's anvil for the insertion of the

shank of a cutting-tool or other piece.

hardystonite (har'di-ston-it), n. [Hardyston (see def.) + -ite2] A silicate of zinc and calcium (Ca₂ZnSi₂O₇) which occurs in white granular masses at Franklin Furnace, in Hardyston dyston township, Sussex county, N. J.

hare 1, n. 1. So many new species and subspecies of hares have been described of late years that common names have not kept pace with scientific names.—Desert hare, a subspecies of the Texan hare, Lepus texensis dericola, which like other desert-dwellers has a pale cost.—Polar hare, the white northern species which are pure white in winter save the tips of the ears which are pure white in winter save the tips of the ears which are place. Besides the same of the same power executions of the same now recognized differing the same name of the same Lepus arcticus other species are now recognized differing decidedly in the proportions of their ears and feet.—Va-rying hare, a name of several species of North American hares, especially of Lepus americanus and L. campeting which turn white in winter in the northern portion of

harebell, n.-- Australian harebell. Same as Tomer-

harelip-needle (har'lip-ne'dl), n. A slender cannula with a spear-pointed trocar which is passed through the two halves of the lip, the freshened edges being in apposition: th car is then withdrawn and a figure-of-8 suture is applied over the cannula.

harem, n. 4. The group of female fur-seal (rows) controlled by a single male fur-seal (bull): the unit of life on the fur-seal rookeries. Jordan, Fur Seals and Fur-seal Islands.

Harengula (ha-reng'gū-lä), n. [NL., dim. of harenga, herring.] A genus of fishes of the family Clupeidæ, or herrings, characterized by the firm, usually adherent scales. The species are of small size and tropical in their distribution

hare-wallaby (har'wol'a-bi), n. Same as kan-

harf (härf), n. [Abyssinian.] An Abyssinian silver coin, the dahab, equal to one twenty-

third of a dollar.

Hargeria (här-gē'ri-ä), n. [NL.] A genus of extinct toothed birds from the Cretaceous of Kansas. They are closely related to Heperornis, but are distinguished by differences in the quadrate and in having a more slender

femur. Lucas, 1902. haricot (har'i-kō), v. t. To prepare as, or convert into, a haricot: as, to haricot a neck of

harifuku (hä-ri-fö'kö), n. [Jap.] The Japanese name of a fish of the family Diodontidae, Diodon holacanthus.

harigue, n. See *arigue.
Häring beds. See *bed1.
Hariota (har-i-ō'tä), n. [NL, (Adanson, 1763), named in honor of Thomas Hariot (also spelled Harriot) (1560-1621), who accompanied Grenville to Virginia and wrote an account of its products. Compare *Harriotta.] A genus of plants of the family Cactaces. See Rhipsalis.
harisembon (hä-ri-sem'bōn), n. [Jap.] Same as *harifulu

harloquin caterpillar, pigeon, quail, ring, table. See *caterpillar, etc.
harmalol(här'ma-löl), n. [harmal(ine) +-ol.]
A brick-red compound, C₁₂H₁₂ON₂.3H₂O, formed by the action of hydrochloric acid on harmaline. It crystallizes in needles

harmaine. It crystallizes in needles.

harmamaxa (här-ma-mak'sä), n. [Gr. ἀρμάμαξα, ζ άρμος, jointed, + ἀμοξα, wagon.] In Gr. antig., a covered wagon, much used by women, which is mentioned by Herodotus and Xenophon in descriptions of Persian luxury. It was similar to the *apena (which see).

harminic (här-min'ik), a. [harmin + -ic.] Desired from his harminic + -ic.] Desired from his harminic + -ic.] Desired from his harminic + -ic.]

rived from harmin or harmaline.— Harminic acid, a colorless compound, $C_{10}H_{8}O_{4}N_{9}$, formed by the oxidation of harmin or harmaline. It crystallizes in silky needles and melts and decomposes at 345° C.

needles and melts and decomposes at 345° C.

harmol (här'möl), n. [harm(in) + -ol.] A compound, C₁₂H₁₀ON₂, formed by the action of fuming hydrochloric acid on harmin.

harmolic (här-mol'ik), a. [harmol + -ic.] Derived from harmol.—Harmolic acid, a colorless compound, C₁₂H₁₀O₅N₂, formed by fusing harmol with potassium hydroxid. It crystallizes in small needles melting at 24° C.

compound, C.34/1905/N, formed by fusing harmol with potassium hydroxid. It crystallizes in small needles melting at 24° C.

harmonic. I. a.—Harmonic analysis. (c) The resolution or analysis of a series of observed values of any quantity into an equivalent summation of a series of sine and cosine terms each pair of which represents the effect of an imaginary force operating in a specific way. The periods of the successive circles are in arithmetical progression; hence the term harmonic.—Harmonic analyser. See **analyzer.—Harmonic axial pencil, the four planes projecting harmonic points from an axis not coplanar with their bearer.—Harmonic integrator, an apparatus for mechanically summing up the individual terms of the harmonic series representing any natural phenomenon. The most important of these are instruments devised by William Ferrel for daily use by the United States Coast and Geodetic Survey, and by William Thomson (Lord Kelviu) in computing tidal tables, for use in England.—Harmonic law, in tingustics, the law according to which the vowels in one word must belong to one class, so that o, for instance, may stand in conjunction with a and u, but not with e and i.—Harmonic minor mode or scale, in music, that form of the minor mode or scale that has a minor sixth and a major seventh. Also called instrumental minor.—Harmonic optimum. See **optimum.—Harmonic points. (a) In projective geom., a harmonic range. (b) In function theory, two pairs of points, one pair the intersections of a circle about with a circle through the other pair.—Harmonic quadrangle. See **quadrangle.*—Harmonic range, four costraight points, if the first and third are codots of a tetrastigm while the other two are on the connectors through the cluster with uniform speed.

In the first point reaches P₁, Simple Harmonic Motion. P₂, P₃, etc., the second will reach p₁, p₂, p₃, etc., The motion of the point along the diameter is then a simple harmonic motion.—Spherical harmonic functions where values are given on a sphere.

II. n.—E

harmonic functions where values are given on a sphere. II. n.—Electrical harmonics, electrical oscillations of higher frequency accompanying an oscillation of ore frequency, usually of greater amplitude, and related to the latter as the harmonic overtones of a complex sound are related to the fundamental tone.—Bilipsoidal harmonic. Same as Lame's function (which see, under function).—Higher harmonics, in alternating currents, electromotive forces, waves of higher frequency, or overtones, which overlie the fundamental harmonic, or overtones, which overlie the fundamental harmonic, in acoustics, an overtone the frequency of which is so modified as to throw it out of harmonic relation with the fundamental tone.—Solid zonal harmonic, $r^m P_m$ (cos θ).—Surface zonal harmonic, $P_m(x)$ or $P_m(\cos \theta)$ is so known as a Legendre's coefficient.—Tesseral harmonics, $\cos n \phi \sin n \theta \frac{d^n P_m(\mu)}{d\mu^n}$ and $\sin n \phi \sin n \theta \frac{d^n P_m(\mu)}{d\mu^n}$:

special cases of the spherical harmonic.

harmonica, n. 3. In organ-building, a mixture-stop. [Rare.]

harmonograph (här-mon'o-graf), n.

Nature, March 6, 1902, p. 421.

harmony, n.—Dominant harmony, in music, either the same as dominant chord (which see, under dominant, or, more locally, all chords for which the dominant serves as the bass or which are associated with it as a general basis of reference.

harness, n. 8. Naut., an obsolete term for the furniture of a ship.—Cape harness, a harness with a wide breast-collar connected with the breeching. It has hip and neck-straps, but no saddle or girth. It is used in Cape Colony, South Africa.—Centered ticharness, a method of tying up the heddles of a Jacquard loom for producing large effects from small patterncards.—Coupé harness, a heavy single harness, generally of a showy character, used with heavy closed pleasure-carriages.—Double equal plain tic-harness, a method of tying up the harness of a Jacquard loom in which four comber-boards are used to weave double equal plain fabrica.—Double-scale harness, a loom-harness for weaving wide patterns with a set of small Jacquard cards.—Fressure harness, a combination of a Jacquard and heddles, in a loom, both moving independently though acting on the same threads.

harness-room (här'nes-röm), n. A room in which sets of harness are cleaned, repaired, and stored.

and stored.

harness-shaft (här'nes-shaft), n. A frame for

holding the heddles of a loom.

harness-slip (här'nes-slip), n. In gauze or doup weaving, that part of a doup-heddle which controls the crossing of the warp-thread. T. W. Fox, Mechanism of Weaving,

p. 234.

harp, n.— David's harp, the gold florin of David of Burgundy, Bishop of Utrecht (1455-96), with the effigy of St. David and his harp.— Harp instrument. See *instrument.— Pointed harp, a small triangular form of zither, now obsolete, played in an upright position on a table, having the higher strings on one side of the sound-board and the lower strings on the other. Also called arpanetta and spitzharfe.

Harpagodes (här-pa-gō'dēz), n. [NL., \langle Gr. $a\rho\pi d\gamma\eta$, a hook, $+\epsilon idos$, form.] A genus of platypodous gastropod mollusks, belonging to the family Strombidæ and closely allied to the recent genus Pterocera, having an ex-

the recent genus Pterocera, having an expanded body-whorl with reflected canal and the outer margin of the aperture produced into a number of tubular spinous processes. It occurs in the Jurassic and Cretaceous rocks.

Harpedidæ (här-ped'i-dē), n. pl. [NL., Harpes (assumed stem Harped-) + -idæ.] A family of trilobites characterized by the broad horseshoe-shaped expansion of the cephalon, simple eyes on the fixed cheeks, numerous thoracic segments, and very small pygidium. Species occur in Silurian and Devonian rocks.

Harpes (hār'pēz), n. [NL., perhaps < Gr. ἀρπη, a siekle.] The typical genus of the Harpedidæ. harp-file (härp'fil), n. A wire hook for filing papers, attached to a harp-shaped piece of iron. Stand. Dict.

harpy-bat (här'pi-bat), n. An East Indian fruit-bat of the genus Harpyta, distinguished by tubular, projecting nostrils. There are two or three species of moderate size, the largest being H. major of New Guinea and the adjoining islands.

Harriotta (ha-ri-ot'ä), n. [NL., named after Thomas Harrot or Harriot (1560-1621), an English mathematician connected with Grenville's expedition to Virginia under appointment of



Harriotta raleighana (From Bulletin 47, U. S. Nat. Museum.)

Raleigh. Compare *Hariota.] A genus of chimæras found in the deep waters of the Gulf Stream, characterized by the long snout which is produced in a soft flat blade. H. raleighana

is produced in a sort nationale. In ransymmetis the known species.

Harris-buck (har'is-buk), n. The large sable antelope, Hippotragus niger, of South Africa, discovered by Sir C. Harris.

Harrison china. See Columbian Star *china.

Harris's bark-louse, butterfly, cormorant. special cases of the spherical harmonic.

harmonica, n. 3. In organ-building, a mixture—
stop. [Rare.]

harmonograph (här-mon'ō-graf), n. [Irreg.

Gr. dpµovia, harmony, + γράφειν, write.] An apparatus in which two pendulums vibrate at discovered by Sir C. Harris.

discovered by Sir C. Harris.

See Columbian Star *china.

Harrison china. See Columbian Star *china.

See Columbian Star *china.

See *bark-louse, butterfly, cormorant.

Harrison china. See Columbian Star *china.

See *bark-louse, butterfly, cormorant.

Harrison china. See Columbian Star *china.

See *bark-louse, butterfly, cormorant.

Harrison china. See Columbian Star *china.

See *bark-louse, butterfly, cormorant.

Harrison china. See Columbian Star *china.

See *bark-louse, butterfly, cormorant.

Hassall or Hassall's bodies. See *body.

hassar (has'ār), n. [S. Amer., perhaps < Tupi acara in a form *açara.] Same as *hardback.

A pupil or student in the college at TT. 2.

stylus or pen attached to one management of the surface supported by the other.

Moreover, the table carrying the paper can be rotated and a variety of figures thus obtained, including the epicycloids and hypocycloids, and also curves similar to those given by a harmonograph with clockwork table, but without the gradual decrease in amplitude.

Nature, March 6, 1902, p. 421.

Nature, March 6, 1902, p. 421.

Teaminant harmony, in music, either also, that assumed by flying flocks of wild geese.

— Pulverixing harrow, a form of riding-harrow in which broad elastic teeth resting on edge are suspended from the



Pulverizing Harrow.

frame and are trailed over the ground, acting as amall plowshares.—Spring-tooth harrow, a harrow having, in place of the fixed teeth used in the ordinary frame-har-row, curved steet beeth bent into a half-circle and acting as

row, curved steel teeth bent into a half-circle and acting as curved springs.

harry² (har'i), n. [Said to be so named from King Harry or Henry VIII.] A playing-card having a slight blemish on one surface.

Harry³ (har'i), n. [Also Harrie, earlier Herry, Herrie, assimilated forms of Henry, OF. Henri, etc.] A common personal name, also used in various extraneous applications. See *'Arry, and Old Harry, under old.—Black Harry, the black sea-bass, Centropristes striatus: so named along the Atlantic coast of the United States.

hart, n. and v. A simplified spelling of heart.

see-bass, Centropristes stratus: so named along the Atlantic coast of the United States.

hart, n. and v. A simplified spelling of heart.
hartbeest, n.—Bastard hartbeest. Same assassby
(which see)—Hunter's hartbeest. B. hunter, from
Somaliland, distinguished by the white A-shaped marks on
the forehead, and long horms.

harth, n. A simplified spelling of hearth.

Hartogia (här-tō'ji-ä), n. [NL. (Linnæus,
1759), named in honor of John Hartog, an
early Dutch traveler in South Africa.] A genus
of plauts of the family Rutacese. They are upright heath-like shrubs, the leaves usually alternate and
commonly small and entire, the small white, red, or lilac
flowers in terminal umbels or heads, rarely single in the
axils of the leaves. There are about 100 species, native
in South Africa, several of which are cultivated in greenhouses.

Hart's cell. See *cell. Hartshill quartzite. See *quartzite.

Hartshill quartzite. See *quartzite.

hartshorn, n.—Oil of hartshorn, the liquid product, of oily consistence and immiscible with water, obtained in the destructive distillation of the antiers of deer, as formerly practised. It is essentially the same as bone-oil. Thorpe, Dict. Applied Chem., III. 8.

harty, a. and n. A simplified spelling of hearty.

Harveian (här'vē-an), a. Named, established, or delivered in honor of the famous physician William Harvey (1578-1657), the discoverer of the circulation of the blood: as, the Harveian Society of London; the Harveian lectures. Lancet, June 6, 1903, p. 1608.

harvesting-ant (här'ves-ting-ant), n. An ant of the genus Aphænogaster or of one of its immediate allies, such as Pogonomyrmex.—They form deep underground nests composed of many chambers, in some of which are stored the seeds of grasses and grains as provision against winter. Cambridge Nat. Hist., VI. 164.

Harveyize (här'vi-iz), v. t. [H. A. Harvey, the

grains as provision against winter. Cambridge Nat. Hist., VI. 164.

Harveyize (här'vi-iz), v. t. [H. A. Harvey, the inventor of the process, + -ize.] To subject the face of (a steel plate, particularly a steel armor-plate), for the purpose of chilling, to a process of cementation which increases the carbon in that portion of the plate and produces a plate with a comparatively soft and duetile body and a very hard face.

harzburgite (härts'bèr-git), n. [Harzburg, in Saxony, + -ite².] Same as saxonite.

hash-house (hash'hous), n. A cheap boarding-house. [Slang, U. S.]
haskinization (has'kin-i-zā'shon), n. [haskinize + -ation.] A process by which heat of over 212° F. is applied to green lumber under pressure of 200 pounds to the square inch. Wood thus treated becomes indurated and durable. The process is sometimes substituted for creosoting.

haskinize (has'ki-niz), v. t.; pret. and pp. haskinized, ppr. haskinizing. [Haskin, the inventor of the process, + -ize.] To subject to the process of *haskinization (which see).

hasp-hinge (häsp'hinj), n. In hardware, a combined hinged plate and hasp used on trunks

Hassler's map-projection. See polyconic map-

hassocky (has 'ok-i), a. [hassock1 + -y3.] 1. inches.
Full of thick clumps of coarse grass or sedge. hatherlite (hath'er-lit), n. [Hatherley, in the See hassock1, 1, and hassock-grass.—2. Of the nature of the soft calcareous sandstone which of soda-microcline (anorthoclase) with a little

hastifoliave (hastingsite (hās'tingz-īt), n. [Hastings (see def.) + -ite².] A variety of amphibole from the nephelin-syenite of Dungannon, Hastings county, Ontario: its composition is analogous that of garnet.

The rileus or cap of a mush as the ri

nat, n. 5. In 00t., the pheus or cap of a mushroom.—Alpine hat. See *alpine.—Bee-gum hat, a
silk hat. [Local, U. S.] Dialect Notes, II. vii.—Black
hat, a fresh immigrant; a new-comer; a 'new chum.'
[Slang, Australia.] E. E. Morris, Austral English.—Cabbage-tree hat. See *cabbage-tree.—Hat trick, in
cricket, the feat of a bowler who gets out three batsmen
in three successive balls: so called because formerly it
was rewarded by the present of a new hat. Slang, Australia.]

Blang, Australia.]

Bage-tree hat. See **cauve_
bage-tree hat. See **cauve_
in three successive balls: so called because former,
in three successive balls: so called because former,
was rewarded by the present of a new hat.

It is the custom of many committees to give a sovereign
to every professional who scores fifty runs, and money to
those who perform the hat trick (i.e., take three wickets
with consecutive balls).

**Encyc. Brit., XXVII. 276.

**Mackinaw hat, a very coarse straw hat. [U. 8.]—
**Latoba (hä'tō-bä), n.

[Jap.] A pieror wharf;
a landing-place.

**Any one of several species of palms the leaves

**Any one of several species of palms the leaves

**Latoba (hä'tō-bä), n.

**Any one of several species of palms the leaves

**Latoba (hat'pām), n.

**Any one of several species of palms the leaves

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**Latoba (hat'pām), n.

**Any one of several species of palms the leaves

Mr. Frank Stephen was the author of the well-known epithet 'Old Hats,' which was applied to the rank and file of Sir James M'Culloch's supporters. The phrase had its origin through Mr. Stephen's declaration at an election meeting that the electors ought to vote even for an old hat if it were put forward in support of the M'Culloch rollier.

The Argus, May 1, 1895, quoted in E. R. Morris, (Austral English.

Tamsul hat [named from Tamsui, a port and river in Formosa], a hat made of strips of the bleached leaves of Pandanus tectorius, a species of screw-pine growing everywhere in Formosa. It rivals the Panama hat in its resistance to weather and hard usage.

hat-camera (hat kam'e-rā), n. A detective camera that may be concealed in a hat.

hat-hat may be concealed in a hat.

hat-hat a rate camera that may be concealed in a hat.

camera that may be concealed in a hat.

hatch!, n.—Take care of the les hatch, an obsolet order to the heinsman which signified that he was not to steer to leeward of the compass course given him.

Hatch Act. See *act.

hatch-beam (hach'bēm), n. An extra strong beam fitted across the deck of a vessel at the ends of a large hatch, to compensate for the reduction in strength caused by the opening.

hatch-boat, n. 2. A vessel of which the signally used for shingles and a strong hast self-and without associates or helpers, specifically as practised in gold-mining in Australia; one who has everything 'under his own hat.' See hatch-boat, n. 2. In Australia, one of the trees called sycamore, Pacilodormis lurida. It yields a white, soft, easily split wood, occambation. reduction in strength caused by the opening. hatch-boat, n. 2. A vessel of which the hatches extend fore and aft; a cargo-barge in which the deck is composed almost entirely of

hatch-coaming (hach'kō'ming), n. Same as

Also called hackle-back.

hatchetman (hach'et-man), n. Or wields a hatchet, in any kind of work. One who

hatchettite (hach'et-īt), n. [Hatchett (see hatchettin) + ite².] Same as hatchettin.
hatch-gate (hach'gāt), n. A gate to regulate the flow of water through a dam or dike or

the now of water through a dam of dike or from a reservoir.

hatching-house (hach'ing-hous), n. A house in which fish-eggs are hatched.

hatching-pen (hach'ing-pen), n. A pen for drawing the fine lines used in shading mechanical drawings and making hatchings.

hatching-station (hach'ing-sta'shon), n. An actablishment where fish acres are hatched

establishment where fish-eggs are hatched, hatchling (hach 'ling), n. [hatch² + -ling¹.] A very young fish, usually artificially hatched and not old enough to take care of itself. The young in a fish-hatchery are so called during the period in which they are protected and given prepared food.

hatch-rings (hach'ringz), n. pl. Large iron rings in the corners of hatches used for lifting

the hatches on and off.
hatch-tackle (hach'tak'l), n. A luff-tackle.
Hat-finishing lathe. See *lathe1.

hath (hät), n. [Hind. hath, a hand, also a

measure of length, Prakrit hattho, < Skt. hasta, a hand.] A Hindu unit of length, equal to 18

nature of the soft calcareous sandstone which separates the beds of Kentish ragstone in England.

hastel, n.—To make haste. (b) In cricist, to move quickly after the pitch: said of a ball.

hastifoliate (has-ti-fō'li-āt), a. Same as hastifolious.

hastingsite (hās'tingz-īt), n. [Hastings (see def.) + -ite²] A variety of amphibole from

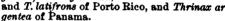
and horns of a cow surmounted with the solar

005

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with a face or head assumed to be an image

making hats, especially
Inodes causiarum, I. Hathoric Capital.
glauca, Thringis laxa,
and T. latifrons of Porto Rico, and Thrinax ar-



sionally used for shingles, and a strong bast

hat-wire (hat'wir), n. A specially tempered wire used for hat-rims.

coaming.

hatch-davit (hach'dav'it), n. A small portable davit overhanging a hatch, used for loading stores, ammunition, etc., below, by means of a whip, the block of which is hooked into an eye in the upper end of the davit.

hatchet-back (hach'et-bak), n. A large rivermussel, Symphynota complanata, having a wing-like projection on one edge of the shell, found in the Mississippi river. The shell is used for the manufacture of pearl buttons.

Also called hackle-back.

hauhele (hou-hā'lā), n. [Hawaiian.] Anative name of a tall shrub or small tree, Hibiscus

wields a hatchet, in any kind of work.

The fear of a highbinder outbreak in Chinatown grows as the activity of the dreaded hatchetmen is observed.

San Francisco Chronicle, Nov. 14, 1894.

hatchettite (hach'et-īt), n. [Hatchett (see hatchettin) + -ite².] Same as hatchettin.

hatch-gate (hach'gāt), n. A gate to regulate the flow of water through a dam or dike or from a reservoir.

hatching-house (hach'ing-hous), n. A house hatching-house (hach'ing-house).

something is hauled.—Haul of all (naut.), the act of swinging all the yards at once.

haulabout (hâl'a-bout), n. A barge for coaling ships. It carries its own hoisting apparatus, derricks, etc., but has no propelling-engines.

Another type of coaling device which has proved highly successful is what is known as the "haulabout." These haulabouts are plain steel hulls, similar to barges, with hatchways extending nearly across the vessel. Fitted to each haulabout are two self-contained Temperley traveling tower transporters, the beams of which have a very long over-reach on either side, and are sufficiently high to take coal from a large collier, and deliver it directly to the boat deck of the largest battleships or cruisers, if necessary.

haulage-way (hâl'āj-wā), n. A passage through which material is hauled or drawn.

Descending by means of an elevator into the depth of the soft-coal mine before mentioned, we find ourselves in front of a whitewashed haulageway which extends far into the distance.

Sci. Amer., May 23, 1903, p. 392.

haul-back (hâl'bak), n. In lumbering, a small wire rope, traveling between the donkey-engine and a pulley set near the logs which are to be dragged, used to return the cable. Also called

trip-line, pull-back, and back-line.

hauling (hâ'ling), n. In growing sea-island cotton, the operation of drawing up to the foot of the plant, with the hoe, the loose dirt left by the plow.

This is called "hauling," and by it the new bed is completed, the cotton is kept from "flagging" (falling down), and the grass is kept under.

U. S. Dept. Agr., The Cotton Plant, p. 230.

hauling-ground (há'ling-ground), n. The por-tion of the shores of the fur-seal islands which is occupied by the young male or bachelor seals: contrasted with rookery, the ground occupied by the breeding seals.

As this is a large hauling-ground, . . . on which fifteen or twenty thousand (seals) commonly rest.

Elliott, Fur-Seal Islands of Alaska, p. 43.

hauling-line (hâ'ling-līn), n. Naut., a small line lowered to the deck from a top or yard to be bent on to such articles as are needed for

work which is going on aloft, as a maul, a marlinspike, or the like.

haul-up (hâl'up), n. In lumbering, a light chain and hook by which a horse may be hitched to a cable in order to move it where

haunch-bone (hänch'bōn), n. The hip-bone, or os innominatum, which forms one side of the pelvis; also the ilium or the largest of the three bones composing each innominate bone.

The skeleton of the hip, or haunch bone, is called the os innominatum, and there is one such on each side in the adult man.

Mivart, Elem. Anat., p. 17.

haunch-joint (hänch'joint), n. The hip-joint.
haunch-stone (hänch'ston), n. In a stone
arch, any stone placed at or near the haunches
of the arch. See haunch, 5.

Haussmannize (hous'man-iz), v. t.; pret. and pp. Haussmannized, ppr. Haussmannizing. [Haussmannized, ppr. Haussmannizing. [Haussmann (see def.) + -ize.] To alter the appearance of (a city) by cutting long. straight avenues, building fine fronts upon these avenues, and setting up important buildings at either end, so that they will show from a few as was done in Povis under the control of the c afar, as was done in Paris under the control of Baron Haussmann during the Second Empire.

As Louis XIV. set the fashion to palace-builders with Versailles so Haussmann, by the creation of a new Paris, excited to emulation the shapers of cities, and to "Haussmanniz" has come to mean the substitution of monotonous avenues and rectilinear spaces for the crooked ways and irregular boundaries dear to the surcheologist and the historian.

Encyc. Brit., XXIX. 255.

hautocot, oboe, 2.

hautecontre (ōt-kontr'), n. [F., 'alto counter.'] The obsolete alto viol. See viola da

hautefeuillite (hōt-fè'i-yīt or hāt-fū'i-līt), n. [Named for P. Hautefeuille, a French mineralogist.] A hydrated phosphate of magnesium which resembles bobierrite but differs in sum which resembles bobierrite out differs in containing several per cent. of calcium: it is from Bamle, Norway.

hatynite (hä'win-īt), n. [hawyne + -ite*.]
Same as hawyne.
hav, v. A simplified spelling of have.
havers (hā'verz), n. Same as haver-grass.

The wild oat-grass, or havers. Avena fatua L., is a weed of cornfields.

Fream, Complete Grazier, p. 914. Haversian fringes, system. See *fringe, *sys-

In navig., half the versed sine. The word was introduced by James Inman in the 1835 edition of his "Navigation."

havier (hav'yer), n. [Also haver, haveer, herior, also halfer; origin uncertain.] A castrated fallow-deer.

A poll havier has no antiers, nor even the stumps, because he was added to the list in his infancy.

The Field, March 7, 1891, p. 332.

haw², n.—Black haw. (a) See *black-haw, 1 and ².

(b) Cratagus tomentosa, the pear-haw, and sometimes C.

Douglasii, the Western haw.—Dotted haw, Cratagus
punctata, a species of the more northern United States
east of the Mississippi, with obovate leaves and white
dotted truit. Sometimes called large-fraited thorn.—
May-haw. See *May-haw.—Purple haw. Same as
bluewood and logwood, 3.—Red haw, the scarlet haw or

scarlet-fruited thorn, Cratzgus coccinea; also other redfruited species, especially C. moltis, C. Crus-palli, C. cordata, and C. viridis.— Scarlet haw, Cratzgus coccinea, a species, as now understood, ranging from New-foundland to Connecticut and through the St. Lawrence valley to western Quebec.—Summer haw. (a) See haw?, 3. (b) Same as *May-haw.—Tree-haw, Cratzgus oviridis, a species with nearly the distribution of the May-haw, largest (sometimes 35 feet high) in western Louisians and eastern Texas, where it often forms large thickets. The foliage is extremely brilliant in autumn. Also red haw.—Washington haw. Same as Washington thorn (which see, under thorn!).—Western haw, Cratzgus Douglassi, of the northwestern United States and British Columbia a tree 30 or 40 feet high. Most often called thorn-apple; also black thorn, etc. haw3, n. 2. (b) The inner eyelid or nictitating membrane of dogs: usually concealed, but noticeable in the bloodhound.

Hawaiian subregion. See *subregion.

hawaiian subregion. See *subregion. hawberk, n. See hauberk. hawk¹, n. 3. A double-hooked instrument for hawk¹, n. 3. A double-hooked instrument for drawing or moving about the cloth in the dyeing-liquor of a hawking-machine.—Cooper's hawse¹, n.—In the hawse, a short distance in advance of the cutwater.—To have a bold hawse, said of a vessel when its hawse-holes are high above the water.

A widge or neck (generally at



Cooper's Hawk (Accipiter cooperi).

hawk, Accipiter cooperi, a small but strong and active hawk, abundant in North America south of the Canadian boundary: more destructive to chickens and young poultry than any other species. It is bluish gray above, and white, barred with rufous below, and about 18 inches long and 80 in spread of wings.—Harris's hawk, Parabuteo unicinctus harrisi, a rather large species, found in the southern and western United States. It has dark plumage and the tail is black with a white band at base and one at the tip.—Red-



dered Hawk (Buteo lineatus).

shouldered hawk, Buteo lineatus, a common species of the eastern United States, of a dark reddish brown above and rather rusty colored below: length about 18 inches: spread of wing about 42 inches. It is one of the most omnivorous of hawks, eating frogs, fish, insects, and small mammals.—Bwainson's hawk, Buteo succineoni, a western species, about 20 inches long and 48 in spread of wing:

J. Wrightson, Fallow and Fodder Crops, p. 246. I gives as its product what is known all over the Austrian Empire as sour hay.

It gives as its product what is known all over the Austrian Empire as sour hay.

J. Wrightson, Fallow and Fodder Crops, p. 246. I haya 2 (hä'yä), n. [Jap.] A fish, Pseudoras-bora parva, of the family Cyprinidæ, found in the waters of Japan. Also known as moroko.

hawk', u. I., trans. To draw or to pull with a hawk, as cloth through the dye-vat of a hawking-machine.

Any one of the family Cyprinidæ, found in the waters of Japan. Also known as moroko.

hay-carrier (hā'kar'i-er), n. Same as *hay-elevator.

Aye (hā'ye), n. [Also hae; Jap. haye, splendor.] A Japanese name for small shiners or minnows of the family Cyprinidæ, belonging

outer planking was left upon the hawse-tim-bers in the wake of the hawse-poles. Against

this projection the planking butted.

hawse-fallen (hâz'fâ'ln), p. a. In the phrase to ride hawse-fallen, said of a vessel when it is at anchor and the water which reaches the decks through the hawse-pipes is heavy in volume.

hawse-full (haz'ful), adv. See to *ride hawsefull

hawse-iackass (hâz'iak'as), n. A canvas bag shaped like a cornucopia, stuffed with oakum and thrust into the hawse-pipes when at sea to prevent the waves from flowing inboard as they break against a vessel's bows.

hawse-laid (haz'lad), a. Naut., same as hawser-laid.

hawser-bend (hâ'zer-bend), n. A bend for

See *gooseberry.

hay1, n.—Sour hay, a form of sliage long produced in Austria and flungary by filling green fodder tightly into pits, either lined or not, and covering with a layer of earth. The resulting fermentation renders the mass acid and imparts a deep brown color, whence the name brown hay. In England sometimes pitted hay, and, fancifully, potted hay.



minnows of the family Cyprinides, belonging to the genus Zacco, found in the waters of Japan. Also known as oikawa and zako.

cyx which resemble small hawks in appearance and flight. They are gray above, more or less rufous below, and have a banded tail and large yellow eye. All are Asiatic.

hawking-machine (hâ'king-ma-shēn'), n. A cloth-dyeing machine constructed with guiderollers designed to keep the goods covered by the dye-liquor and protected from the air.

to the genus Zacco, found in the waters of Japan. Also known as oikawa and zako.

hay-elevator, n. These machines, commonly called hay-carriers, are used to lift, transport, and deliver hay, and they have a deliver hay struct, on which a trolley carrier may run. Both employ a mechanical hay-fork or aling for gathering the hay from a wagon and delivering it to a stack or to the cableway, on which it chinesis. See licht.

travels to any part of a large and long stack. Those used in barns employ lifting appliances and carriers traveling upon fixed tracks suspended from the roof of the barn. They are usually automatic, and gather the hay from the wagon, elevate it, transport and deliver it, and return for the next load with only slight attention from the operator. See *hay-fork and stackers*.

tor. See *hay-fork and stacker?.

hay-fork, n. Hay-forks used with hay-carriers are made in the form of spears or harpoons, or of hinged grappling-irons resembling a clam-shell dredge. The harpoons are single or double and are provided with barbs which, when the shaft is thrust into the hay, can be thrown out to gather and lift a large bunch of it. The grappling-forks are opened and dropped upon the hay, when a pull upon a cord draws the tines together, gathering and lifting the hay.

hayko (hī'kō), n. A Russian name applied in Alaska to the dog- or calico-salmon, Oncorhynchus keta,

chus keta.

tral California). Shell money of the Californian Indians, consisting of circular disks of Pachyderma crassatelloides from a quarter of an inch to an inch in diameter and perforated in the center for stringing.

**RABSE to the dog- of california, consisting of circular disks of Pachyderma crassatelloides from a quarter of an inch to an inch in diameter and perforated in the center for stringing.

RABSE to the dog- of california, chus keta.

**hay-leader, n. A hay-loader of the modern type consists essentially of a broad inclined elevator supported on a pair of wheels, and designed to be attached to the rare end of a hay-wagon; some form of revorm of raking or gathering device for collecting the hay from the ground or from windrows; and a conveyer for carrying the hay, as fast as gathered, up to the elevator and stacking it on the wagon. The forward movement of the wagon causes the wheels of the loader to communicate motion, by means of belts, to some form of revolving or reciprocating hay-rake and some form of conveyer that lifts the loose hay gathered by the rakes and deposits it on the wagon. The forward movement of the wagon causes the wagon. The forward movement of the wagon causes the wagon. The forward movement of the wagon causes the wagon. The forward movement of the wagon causes the wagon. The forward movement of the wagon causes the wagon. The forward movement of the wagon causes the wagon. The forward movement of the wagon causes the wagon. The forward movement of the wagon causes the wagon. The forward movement of the wagon causes the wagon. The forward movement of the wagon causes the wagon. The forward movement of the wagon causes the wagon. The forward movement of the wagon causes the wagon. The forward movement of the wagon causes the wagon. The forward movement of the wagon causes the wagon. The forward movement of the wagon causes the wagon. The forward movement of the wagon causes the wagon. The forward movement of the wagon causes the wagon. The forward movement of the wagon causes the wa

as coca-leaves and yield the alkaloid cocaine. hay-rigging (hā'rig'ing), n. A temporary wooden framework placed in a wagon to increase its capacity for light loads, such as hay or seaweed; also, a cheap form of farmwagon having flaring stakes at the sides, used to carry hay.

hay-rope (hā'rōp), n. In foundry-work, a rope form of tightly twisted hay or dried prairiegrass, used in making cores.

hay-scales (hā'skālz), n. pl. Public weighing-scales maintained by a town for general use,

haysel (hā'sel), n. The haying or haymaking time. [Local, Eng.]
hay-spade (hā'spād), n. A hay-knife (which

hay-stacker (hā'stak'èr), n. A hay-elevator specially designed for placing hay in stacks out of doors. See *hay-elevator.

out of doors. See *hay-elevator.
hay-sweep (hā'swep), n. A large hand hay-rake. [Local.]
hay-tosser (hā' tos' er), n. A machine for tossing hay in the process of drying it.
hay-worm (hā'werm), n. A caterpillar which feeds on hay, as the clover-hay worm (larva of Hypsopygia costalis), which see, under clover

hazard, n. 8. In golf, a bunker, water, path,

hazard, n. 8. In golf, a bunker, water, path, road, railway, fence, or ditch.—Hazard chaze or opening, in golf, a small opening in a hazard or bunker to allow passage for the players.

hazel, n.—Aqueous haze, a hazy or misty appearance of the atmosphere due to the presence of particles of water. When the particles are the smallest possible, this haze has a delicate blue tint, but when they are larger a whitish tint. A haze due to dry dust is usually yellowish or reddish. See water-haze, under hazel.

hazell, n. 2. The wood of the sweet-gum, Liquidambar Styracifua: a common use of the word among lumbermen and builders of the eastern United States.—3 In Australia either

eastern United States.—3. In Australia, either eastern United States.—S. In Australia, either of two small evergreen trees of the buckthorn family, Pomaderris apetala and P. lanigera, yielding excellent wood. See bastard *dogwood (b), cooper's-wood, and Pomaderris.—Black-knot of hazel. See *black-knot.—Snapping hazel, the witch-hazel: so called from the elastic bursting of the ripe capsule by which its bony seeds are projected.

trian Empire as sour hay.

Jected.

J. Wrightson, Fallow and Fodder Crops, p. 246. hazel² (hā'zl), n. [Short for hazel-earth.] A

Soil consisting of a mixture of gravel or sand, clay, and loam.

hazel-carpet (hā'zl-kär'pet), n. See *car-

hazel-dodder (hā'zl-dod'er), n. See *dodder¹. hazel-fiy (hā'zl-fii), n. A British anglers' name for a scarabæid beetle, Phyllopertha horticola, and for an artificial one made in imitation of it.

hazel-worm (hā'zl-werm), n. [A translation of German haselwurm.] The blindworm, or slow-worm, Anguis fragilis.
hazzan, chazzan (chā'zān), n. [Heb. hazzan, Aram. hazzana, prob. (Assyr. hazanu, hazannu, overseer, director.] In Jewish use, an overseer; specifically, an official of a Jewish synagogue. Formerly the functions of the hazzan were various: he was not only overseer but also dayan (judge), saphra (scribe), etc. The chief function of the modern hazzan is that of reader or cantor.

Hb. A contraction of hemoglobin.

H-bar (āch'bār), n. A bar with an H section.

H. B. Curves. Curves exhibiting the variation of magnetic induction (B) with the magnetizing force (H).

tizing force (H).

H. O. An abbreviation (b) of Heralds' College.

H. O. M. An abbreviation of His (or Her)
Catholic Majesty.

he² (hā), n. [Heb. hē.] The fifth letter (n) of
the Hebrew alphabet, corresponding to the
English h. Its numerical value is 5.

English h. Its numerical value is s.

He. The chemical symbol of helium.

H. E. An abbreviation (a) of His Eminence;

(b) of His (or Her) Excellency; (c) of Hydraulic Engineer.

h. e. An abbreviation (a) of the Latin hic est, 'he is'; (b) of the Latin hoc est, 'this is.' head. I. n., 6. (m) (2) A rubble-drift capping a cliff, on the coast of Devon and Cornwall.

This 'head' consists of a more or less coarse agglomera-on of angular debris and large blocks set in an earthy natrix. J. Geikie, The Great Ice Age, p. 389.

matrix.

J. Geikie, The Great Ice Age, p. 389.

(u) In a bow for instruments of the viol class, properly the end farthest from the player's hand; the point: opposed to keel or nut. Sometimes, however, the term is loosely applied to the projecting piece at the heel. (v) The flexible shank attached to a molded button; a tuft of cloth protruding from the back of a button, by which it may be attached. (w) A rotating piece on a machine which carries cutting-knives, as on a wood-planing machine. (x) The ram in a quartz-crushing machine. [Mining term, Australia.] (y) In archery, an arrow-head. (z) All the lower part of a golf-club to which the shaft is connected. (aa) The upper, or proximal end of a long bone, which has a rounded articular surface, suggesting the head of a man.

The upper end of the humerus shows a large, rounded Mivart, Elem. Anat., p. 148.

(bb) The upper, or proximal end of a muscle where it is attached to a bone, and whence its pull is transmitted to another bone.

The biceps is the well-known muscle used in flexing the arm. It arises by two heads.

Mivart, Elem. Anat., p. 293.

(cc) The upright timber of a gate which forms the front

or swinging end.
7. (b) Specifically, the vertical height of the surface of a liquid in a reservoir above the center of figure of an orifice through which efflux takes of ngure of an ornice through which entits takes place. When a liquid flows from a closed vessel under pressure mechanically produced, as by the action of a piston, the pressure at the orifice is always equivalent to that which would be caused by a vertical column of the liquid of requisite height and this height measures the virtual head. (c) A unit for estimating amounts of water used in irrigation — the amount flowing through an opening 331 inches wide and 3 inches high under a pressure of 4 inches. U. S. Dept. Agr., Div. of Veg. Pathol., Bulletin 2, 1892, p. 85.

—16. In astrol., the commencement of a zodiacal sign, that is, the point where the sun enters it. N. E. D.—17. A quarrymen's term for that direction in a massive crystalline rock along which fracture is produced with the greatest difficulty.—18. A local name in southern England for the residual products from the weathering of rocks, more or less sorted by the rains. Geikie, Text-book of Geol., p. 460. the rains. Geikie, Text-book of Geol., p. 460.

— 19. In textile-manuf., a section in a machine with completely independent functions, as in a drawing-frame, combing-machine, ribbon lap-machine, etc. Thornley, Cotton Combing Machines, p. 20.—Effective head, the head or pressure actually available for doing work; the net head; the static head minus the head lost in imparting velocity and overcoming friction and other losses before reaching the point where the force is applied to the motor.—Head of a ship, the extreme forward isculing the figure or scroll-head.—Head on. (b) The situation of a vessel when her head is held dead against the sea and wind. (c) Resulting from the sudden impact of two trains meeting directly on the same track: as, a head on collision.—Heads and posts, a cavalry exercise consisting in thrusting and cutting at leather heads placed on posts. Encyc. Brit., XXVI. 156.—Head to tide, the position of a ship when its head is pointing dead against the tide-stream.—Hydrostatic head, the pressure due to a column of water when at rest.—Knee of the head. See *knee.—Railway head, an attachment to several carding-machines for drawing and evening the card-sliver for the subsequent process.—Rain-water head, a center of a rain-water supply, such as is provided by the large continuous roofs of a public building.

A very large field is also opening for cast-lead work, whether associated with application. -19. In textile-manuf., a section in a machine

A very large field is also opening for cast-lead work, whether associated with architecture, as in the leaden-

covered way over Northumberland Street, in London . . . and the fine rain-water heads of the Birmingham Law Courts.

Encyc. Brit., XXX. 645.

Seamen's head (naval), the crew's water-closets, usually placed in the bows of the ship.—Static head, the pressure due to a column of liquid of a given height when such liquid is at rest.—To pump by heads. See spump.—Universal head, a device with jaws adapted for holding a variety of work: used on the spindle of a lathe or milling machine.—Velocity head, in hydraul, the effective head at the orifice of efflux of a tube through which a liquid flows; the head which, if there were no friction or other resistance to flow, would produce the existing velocity of the liquid. If the velocity of efflux be v, which

corresponds to a head of liquid, hv = $\frac{v^2}{2g}$, then hv is called the velocity head.

the velocity head.

II. a.— Head tide. See *tidel.
head, v. I. trans.— Heading-up machine, in barrel-making, a machine for placing the head in a new barrel, forcing it into the croze and holding it there while one or more hoops are put on, and making it ready for the hoop driver.— To head a trick, but not necessarily the best card.—To head back, in hort., to shorten or cut off the shoots of (plants); head in.—To head in, in hort., to reduce in length or shorten (the shoots and twigs of plants).

—To head off. (c) To direct (a vessel's head) from the course; to allow (a ship) to diverge suddenly from the compass direction which it has been pursuing.—To head up, to bring (a ship's head) more in line with the wind or with an object.

II. intrans. 5. Said of the wind when it

II. intrans. 5. Said of the wind when it changes so as to get more in line with the direction that a ship desires to head, or when it draws more ahead of a ship.—6. In geol., to slope upward when viewed from below:

the said of inclined strate; the same as din. 4. said of inclined strata; the same as dip, 4, but the beds are seen from the opposite direction. —To head up, said of a vessel when it 'looks up' closer to the wind.

closer to the wind.

headache, n.—Bilious headache. Same as sickheadache.—Organic headache, a headache due to actual disease of the brain or of the meninges.—Reflex headache, a headache due to eye-strain, nasal disorder, indigestion, or some other cause outside of the brain or its membranes. See def. 1 (c).

head-ax (hed'aks), n. In whaling, an ax used for decapitating a whale, when cutting in.
head-bander (hed'ban'der), n. A person who fastens on the head-bands of books. N. E. D.
head-block, n. S. In a railroad switch, the timber on which the switch-stand and the ends of the switch-rails rest.—4. The pivoted castof the switch-rails rest.—4. The pivoted easting at the top of the mast of a derrick, to which the guy-ropes, tackle-blocks, etc., are fastened.

—5. The log placed under the front end of the skids in a skidway, to raise them to the desired height.

desired height.

head-bolt (hed'bōlt), n. A bolt having a head by which it can be turned.

head-clip (hed'klip), n. An adjustable clip, usually of metal, for steadying the head: used in photography and in certain psychophysical experiments.

head-cone (hed'kōn), n. A cephalocone.

head-course (hed'kōrs), n. Same as heading-course.

head-cowl (hed'koul), n. In certain pteropods, one of the two coverings of the head which inclose and protect the cephalocones.

header, n. 10. A connection at the ends of the tubes in a water-tube boiler. The water usually descends in one header and steam rises in another, thus keeping the current of water and steam flowing in one direction and promoting good circulation.

Instead of having two headers, as is the case with the latter type, the Niclausse has only one header, which is divided so as to allow for both the upward and downward flows.

Sci. Amer. Sup., Jan. 24, 1903, p. 22624.

11. In a floor or roof, the timber used for framing round an opening. It is supported by framing round an opening. It is supported by two trimmers, one at either end, and, in its turn, supports the ends of the two tail-beams.

—12. A horse used in helping to haul heavily-laden vehicles up heavy grades.—13. In cigar-making, a workman who shapes or finishes the head or mouth-end of a cigar; also, an appliance used for the same purpose.

header-binder (hed'er-bin'der), n. of header in which the heads are delivered to a binder

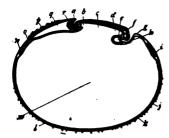
a binder.

head-fold (hed'föld), n. In embryol., a fold of
the amnion covering the head of the vertebrate
embryo; also, a fold in the blastodisc which
marks off the head-region of the embryo. See cut in next column.

head-footed (hed'fut'ed), a. Having the feet or locomotor organs attached to the head-region, as in cephalopods; cephalopodous.

head-gear, n. 4. The head-rigging of a vessel. head-gland (hed'gland), n. In many nemertines, one of the collections of gland-cells which lie in the head and open at the tip of the latter

in a disk-shaped group of cells bearing long hairs or bristles. It may function as an organ of taste. Also known as frontal gland. Proc. Zool. Soc. London, 1901, II. 95.



g, Head-fold.

g, Head-fold.

A median longitudinal, or sagistial, section through a rabbit embryo and blastodefmic vesicle at the end of the ninth day. (Ia part after Van Beneden and luin.)

a, tail-fold of amnion: \(\text{\$\ell}\$, inid-brain: \(\text{\$\ell}\$, mid-gut; \(\text{\$\ell}\$, problast; \(\text{\$\ell}\$, epiblast; \(\text{\$\ell}\$, epit hickened epiblast; \(\

head-house, n. 2. In railroading, the end of a terminal station; that part of a terminal station building which contains the ticket-offices, tion building which contains the ticket-offices, waiting-rooms, and concourse, and forms the front or entrance to the train-shed. It is usually much higher than the train-shed, the upper stories being used as offices for the company, and the main floor connecting with the tracks and platforms and serving as the entrance and exit for the outgoing and arriving passengers.

Sci. Amer., Jan. 14, 1889, 1.

heading-chipper (hed'ing-chip'er), n. A pneumatic chipping-hammer used for heading rivets or boiler-tubes.

head-kidney, n. 2. The primitive kidney of annelid worms.

Parker and Haswell, Zoology.

I. 416.

T. 416.

head-lacing (hed'la'sing), n. The lacing which confines the head of a fore-and-aft sail

to the gaff.

head-lifting (hed'lif'ting), n. A method of divination, practised by the Eskimo and by the Chukchee, in which the future is divined by tying a thong around the head of a reclining person. A second person tries to lift the head of the first by this thong, and his questions as to the future are answered in the affirmative if the head can be lifted, in the negative if it cannot be lifted. Similar forms of divination by lifting stones and charms are found as far south as the Amur river.

Head-lifting is one of the chief divining methods, not less among the Chuckchee than among the American Eskimo.

Amer. Anthropologist, 1902, p. 635.

Headlight oil. See *oil.
head-line, n. 3. One of the lines in the title
of a newspaper article, printed in large type to
attract attention.—4. Same as head-fast.

headline (hed'lin), v. t.; pret. and pp. head-lined, ppr. headlining. To announce, refer to, or mention in the large print of newspaper head-lines; give prominence to in head-lines.

My job is private secretary to the President of this Republic, and my duties are running it. I'm not head-lined in the bills, but I'm the mustard in the salad dressing.

McClure's Mag., Feb., 1903, p. 431.

head-mark, n. 2. An unplowed ridge of land left to serve as a boundary; a balk.

head-motion (hed'mo'shon), n. A mechanism at the end of a fancy cassimere-loom or dobby-loom embracing the pattern-chains for operating the warp-harnesses and shuttleboxes.

boxes.
head-note, n. 2. See head-tone and head-roice.
Headon beds. See *bed1.
Headon Hill sands. See *sand1.
head-pence (hed'pens), n. pl. [See head-penny.] A tax of forty shillings or more formerly collected from the people of the county of Northumberland by the sheriff twice in every seven years. The sheriff was not accountable to the king for this tax. It was abolished in the reign of Henry VI.

head-piece, n. 4. The figurehead, scroll-piece, or fiddle-head under a vessel's bowsprit.

head-rigging (hed rig ing), n. The rigging belonging to the foremast, bowsprit, and jib-

head-ring, n. 2. In a four-in-hand harness, a ring, fixed at the crown of the bridle of a wheel-horse, through which the lead-rein for

noe of the leaders passes.

head-room (hed'rom), n. 1. The vertical distance from a floor to the ceiling or beams above it: so named because this distance determines whether or not a person has room for his head when standing or walking on the floor.—2. Specifically, the space left above a stair by means of which the head of the person ascending the stair is kept free from striking or coming too near the superstructure. The term may apply either to the vertical distance from the nosing of the step below to the ceiling or any cross-beam or the like above, or to the distance measured out diagonally from the nosing of a step.

head-scab (hed'skab), n. Any acariasis of the head, as the sarcoptic scab (black-muzzle head, scab) of sheen. The remetites give rise to

nead, as the sarcoptic scan (Diack-muzzie head-scab) of sheep. The parasites give rise to a violent itching, causing the sheep to rub and scratch their heads: in advanced cases the eyes may be partly closed, and breathing and even eating may become difficult because of the formation of crusts about the mouth

head-shaping (hed'sha'ping), n. The practice of changing the natural conformation of the head by compression: common among many uncivilized tribes and peoples.

Head-shaping has been universal.
Smithsonian Rep., 1899, p. 516.

head-sill, n. 2. In a wooden window-frame or door-frame, the horizontal strip or piece which forms the top and holds the sides to-

head-snapping (hed'snap"ing), n. Same as head-hunting. Ratzel (trans.), Hist. of Mankind, I. 447

head-spanner (hed'span'er), n. In anthrop., an instrument for measuring the dimensions

In order to confine the cost of the inquiry within reasonable bounds, a special head-spanner was devised.

K. Pearson, in Biometrika, March-July, 1904, p. 134.

head-stock, n., 1. (d) The central frame of mean-stock, n., 1. (a) The central frame of a spinning-mule, containing the operative mechanism of the machine. Nasmith, Cotton Spinning, p. 244.—2. The wooden cross-beam to which a bell is bolted and which serves as the pivot on which it swings. Also called stock

head-wall (hed'wâl), n. See head. head-water (hed'wâ'ter), n. One of the upper tributaries of a river: usually in the plural. Also used adjectively.

The headwater tributaries of Gila river drain the slopes of several ranges of the Mogollon mountains.

Dept. Com. and Labor, Bur. of Census, Bulletin 16, [Irrig. in U. S., 1902, p. 70.

Head-water mark, a point or mark to define or limit the maximum permissible height of water above a dam, or in a pond, reservoir, or waterway subject to artificial regulation.

headway, n. 4. In railroading, the time which elapses after one train passes a certain point before the following train passes that point.

head-work, n. 3. pl. The group of artificial
works or constructions at the head of an artificial canal or channel necessary to divert and ficial canal or channel necessary to divert and regulate the flow of water from a river or other body of water into the canal. For an irrigating canal, the head-works would include a diversion weir, if any, with its accessories, a guard-boom to divert floating objects away from the canal-gates, head-gates or sluices to regulate the admission of water to the canal, and gaging or measuring appliances for determining the quantity of water entering the canal. For a water-power canal extending from a stream, reservoir, or millipond to a water-power station, the head-works would include a dam to divert large floating objects away from the entrance, a rack or screen to prevent the entrance of smaller floating material, and sluice-gates to regulate the flow of water into the canal.

pl. A platform or raft with windlass or capstan which is attached to the front of a log-raft or boom of logs for warping, kedgwinding it through lakes and still water, by hand or horse-power.

heady, a. 4. Intelligent.
health, n.—Diploma in Public Health. See *di-

See **athletic.—Fatty heart. (a) Fatty degeneration or infiltration of the wall of the heart. (b) An excessive deposit of fat around the heart.—Heart and soul, entirely; wholly; unreservedly; with eager enthusiasm; enthusiastically: as, he threw himself heart and soul into the work.—Iood heart. See **iced.—Irritable heart, a functional disorder of the heart marked by rapid pulsations or palpitation, cardiac pain, shortness of breath, etc., on alight exertion or following mental excitement.—Left heart, the left auricle and ventricle of the heart taken collectively as the center of the systemic circulation.—Military heart, irritable heart in soldiers.—Pulmonary heart, Same as right **heart. —Respiratory heart, the right auricle and ventricle, which receive the blood from the system and send it to the lungs. [Rare.]—Right heart, the right auricle and ventricle of the heart taken collectively as the center of the pulmonary circulation.—Sweepstake hearts, a form of the game of hearts in which the player who takes no hearts wins everything on the table.—Systemic heart, the left auricle and ventricle considered together as furnishing the blood to the body generally. [Rare.]—To lose heart, to become discouraged. Wandering heart, an abnormally mobile heart.

neart-block² (härt'blok). n. Contraction of the auricles of the heart which is not transmitted to the ventricles, the auricular pulsations being sometimes of more than double the frequency of the ventricular.

Stokes noted on the readmission of his patient a new symptom—a remarkable pulsation in the right jugular vein, more than double the rate of the ventricular contractions. This feature has been studied by Chauveau, by Quincke, by His, jun., and others, who are of opinion that the jugular pulsations correspond to independent auricular contractions which are not propagated to the ventricles—a state of "heart-block," as Gaskell terms it. Lancet, Aug. 22, 1908, p. 528.

heart-borer (härt'bor-er), n. An American noctuid moth, Anarta cordigera, found in Canada, Labrador, and Colorado. hearth-bottom (härth'bot'um), n. The stone

which forms the bottom of the hearth in a blast-furnace.

hearth-broom (härth'bröm), n. A small broom used about a fireplace for sweeping up ashes,

cinders, etc. hearth-brush (härth' brush), brush used to sweep up ashes, etc., on a hearth.

hearth-pit (härth'pit), n. A pit under the floor in front of a Lancashire boiler.
hearth-plate, n. 2. One of the floor-plates over the hearth-pit of a Lancashire boiler.

heart-hurry (härt'hur'i), n. Extreme rapidity of pulse, appearing suddenly and of short duration: a form of tachycardia.

There are certain peculiarities which distinguish true tachycardia from the evanescent "heart-hurry" so frequently produced by the most trivial causes.

Med. Record, Feb. 7, 1903, p. 204.

hearting, n. 2. (a) The interior portion of a mass of masonry, as the portion between the up-stream and down-stream faces of a masonry dam. Commonly called the backing. (b) The impervious vertical wall of masonry, concrete, or even clay puddle which is placed inside an earth embankment which forms a dam or a reservoir bank, for the purpose of preventing leakage through the embankment. Commonly called core-wall if of masonry or concrete, and puddle-wall if of clay.

The tower is constructed with a facing of granite, all the stones being dovetailed in the usual manner. The hearting of the base is largely composed of concrete.

Encyc. Brit., XXX. 254.

heart-moth (härt'môth), n. A British collectors' name for a European noctuid moth, Dicycla oo.

heart-rot, n. 2. A fungous disease of beets, due to Phoma Betæ, which causes a decay of

and dull, the second short and sharp.—Reduplication of the heart-sounds, a double in place of a single first or second heart-sound, due to a lack of synchronism in the closure of the valves.

heart-stroke (härt'strök), n. 1. The impulse of the apex of the heart against the chest wall.

—2. Angina pectoris.
heart-trace (härt'trās), n. Same as cardio-

heaptead (hep'sted), n. The entire plant above ground at the shaft of a coal-mine.

hearst (herst), n. [Also hearse; origin obscure.] In hunting, a hind in the second or third year.

heart, n.—Accessory hearts, certain organs in brachlopeds erroneously supposed to function as heart.

heart trowel (hart'trou'el), n. A moulders' trowel having a heart-shaped outline.

heart water (hart'wâ'ter), n. A serious, non-contagious, infectious disease of sheep and diagnosis depends chiefly upon the post-mortem appearance of the viscers, the distinctive features of the disease

being only feebly or not at all evident, until the animal is very near death. The specific cause (doubtless a microorganism) is unknown. Transmission is by means of the bont-tick' (Amblyomma hebræum), which sucks blood from the diseased animal, then falls to the ground to moult, and after moulting attacks other sheep or goats and infects them with the disease.

The Government entomologist, Mr. C. P. Lounsbury, records an important discovery in regard to the propaga-tion of the South African sheep and goat disease known as "heartwater." The bont-tick has been found to be the only medium of spreading the disease.

Nature, Nov. 26, 1903, p. 91.

heart-wood, n. 2. The Tasmanian ironwood, Notelea liquetrina, the hard, close-grained wood of which is used for turning.

heart-work (härt'werk), n. Work that has been prompted by the heart, or executed with all one's heart.

With all the head-work that there is in these volumes, and all the heart-work, too, I have not bitten my nails over a single sentence which they contain.

Southey, Doctor, Ivili.

heat, n. 9. The quantity or weight of metal undergoing a metallurgical process. See

heat extraction of programs, the temperature of the heated metal which gives to the film of oxid which forms on a bright surface of a steel bar a color which is blue in daylight. The temperature ranges with the quality of the steel from 430° f. to 560° f.—Dynamical theory of heat, the theory that heat is a mode of motion. See def. 2. The term is sometimes applied to the relations of heat and work (thermodynamica), sometimes to the seneral theory that heat consists of motions of the particles of matter.—Heat consists of motions of the particles of ombustion, the amount of heat produced when a certain unit mass of a substance is completely burned in oxygen. For a fuel, the unit mass may be one gram, for a chemical compound it may be a gram-atom or a gram-molecule.—Heat of dilution. See **dilution.—Heat of Formation, in *phys. chem.*, the amount of heat set free when a gram-molecule of a compound is formed from its elementa. It is positive for exothermic compounds and negative for endothermic compounds, and is measured in calories, that is, by the number of grams (or kilograms) of water warmed one degree, under specified conditions, by the heat produced in the reaction. Commonly it can be experimentally determined by indirect methods; by direct methods only when the reaction of formation can be made to take place appliedly, and without concurrent formation of other or water warmed one degree centificated by the number of sixteen grams of oxygen with 2.015 grams of hydrogen, which is found to be Greece centificated by the number of water warmed one degree centificated by the number of sixteen grams of oxygen with 2.015 grams of hydrogen, which is found to be Greece centificated by the number of sixteen grams of oxygen with 2.015 grams of hydrogen, which is found to be Greece centificated by the number of sixteen grams of oxygen with 2.015 grams of hydrogen, which is found to provide the sixteen grams of oxygen with 2.016 grams of hydrogen, which is found to provide the sixteen grams of oxygen with 2.016 grams of hy

In 1888, 1900 E. F. Nichols, using his form of radiometer thanks and other restrains of the structure of the semantial to the sum the inflations of heat in 1888, 1900 E. F. Nichols, using his form of radiometer, and a concever miler of 1888-1900 E. F. Nichols, using his form of radiometer, and a conceve mirror of off centimeters aperture, but and a conceve mirror of off centimeters are proved in 1888-1900 E. F. Nichols, using his form of radiometer and a conceve mirror of off centimeters are proved from the semantial form of the semantial concept of the semantial c

ows:

Vega, 0.51 × 10⁻⁸ meter-candles.

Arcturus, 1.14 " "

Jupiter, 2.3 " "

Saturn, 0.37 " "

The total radiation of these stars stands in the ratio:

Vega: Arcturus = 1: 2.2

Vega: Jupiter = 1: 4.7

Vega: Saturn = 1: 0.74

vega: Saturn = 1: 0.74

Since the photometric intensities of Vega and that of Arcturus are nearly equal it follows that the infra-red spectrum in Arcturus is proportionately much stronger than that of Vega.—Thermometric heat, the heat of matter, measurable in calories, as distinguished from radiant energy.—Total heat. (a) In thermodynam., the quantity E+pv, where E is the intrinsic energy of a substance, p its pressure, and v its volume.

The total heat as defined by Regnault . . . differs from (E + pv) only by a quantity which is inappreciable in ordinary practice.

Encyc. Brit., XXXIII. 286. (b) The heat in calories required to convert a gram of liquid at its melting-point into saturated vapor at a given

heat-asphyxia (hēt'as-fik'si-ä), n. Symptoms of collapse caused by excessive heat.
heat-coil (hēt'koil), n. Same as *heating-

coil. 1.

which, in starting, is heated by the electric current and by its heat starts the glower. See Nernst **lamp.—Baltimore heater, a stove designed to be set in a fireplace and, commonly, to heat a room overhead by means

Baltimore heater, a stove designed to be set in a fire-place and, commonly, to heat a room overhead by means of hot air pipes. heat-filter (hēt'fil'ter), n. In photog., a cell having parallel glass sides filled with water, alum solution, or the like, interposed in the path of rays with the object of removing heatrays but allowing those of light to pass.

Sun-light and a calcium burner, both of which throw parallel rays, being out of the question for me, I have taken a powerful projection lantern and set it as near to the microscope as the intervening heat-filter will permit.

Woodbury, Encyc. Dict. of Photog., p. 367.

heat-gage (het gaj), n. An instrument for ascertaining the temperature of furnaces, depending upon the comparison of the incandes-cent spiral of an electric lamp with that of the

cent spiral of an electric tamp with that of the furnace. When both glow alike, the reading of an ammeter, in circuit with a rheostat, is taken. A table gives the corresponding degree of heat.

heath, n. 4. In Tasmania, the popular name for several species of the genus Epacris, especially E. impressa, a beautiful slender shrub bearing white or red axillary flowers. See pecially E. impressa, a Deautiful stender shrub bearing white or red axillary flowers. See Epacris.—Alkali heath, Frankenia grandifolia, a deeprooted perennial able to persist in cultivated ground, the most characteristic plant of the 'gooselands' of California. It is a useful alkali indicator, its presence implying an excess of Glauber's saits in the soil, incompatible with the raising of wheat or stone fruits. Also called yerba reuma from its medicinal properties.—Australian heath, any one of various species of the genus Epacris, which are cultivated in greenhouses, especially E. longifora.—Besomor broom-heath, the cross-leafed heath. See heath, 2.—Cornish heath, Erica vagans, a low gregarious species ranging around the Mediterranean and up the Atlantic coast to Cornwall. Also called moor-heath.—False heath. Same as false *heather (a).—Mountain-heath, Phyllodoce cærulea, an ericaceous shrub, with yew-like evergreen leaves and clusters of pink or purple flowers of the heather type. It is found in the northern Old World, and on the high mountains of New England and far north in North America.

heath-aster (hēth'as'tèr), n.—Ross heath-aster, Leucelene ericoides, a low tufted plant of the aster family with terminal heads, the white rays turning rose-red in drying, found on the plains from Nebraska to Texas and west to California and Mexico.—White heath-aster. See *master1.

petid butterflies. See heath, 3.
heather, n.—Alaska heather, the Alaskan ericaceous plant, Harrimanella Stelleriana; also any Alaskan plant of the genus Cassiope.—Alpine heather, a low heather-like shrub, Phyllodoce Harrimanella Stelleriana; also any Alaskan plant of the genus Cassiope.—Alpine heather, a low heather-like shrub, Phyllodoce shrub, Halsonia Lifornia, p. 246.)—Beach-heather. Same as false *heather.—Beall-heather. Same as false *heather.—Beall-heather.—See heath. 2.—False heather, the Scotch heather. See heath. 2.—False heather, the Scotch heather. See heath. 2.—False heather. (a) An American cistaceous shrub, Hudsonia tomentosa, found on sandy shores of the Atlantic, in plne-barrens, and on inland shores northward. It is analogous in habit and habitat to the Old World heaths. Also called false heath and beach-heather. (b) Menziesia—Mountain-heather. Same as sand-myrlle—which see, under myrlle)—Red heather, in northwestern America, the ericaceous shrub, Phyllodoce glandulifora.—White heather, Phyllodoce empetriformis, of the same region as the red heather. Compare alpine *heather." heather-honey (he\text{H}'er-hun'i), n. Honey gathered from heather.

heather-honey (hewH'er-hun'i), n. Honey gathered from heather.

heath-stone (heth'ston), n. A name used by architects in England for certain sandstones which occur in the Bagshot beds of the Eccene.

heating, n.—Counter-current heating. See parallel sheating, -Parallel heating, parallel-current heating, the heating of a fluid flowing through a tube or flue by a substance on the outside of the tube flowing in a direction parallel to the direction of flow of the fluid on the inside: distinguished from counter-current heating, in which the currents flow in opposite directions.

heating-coil (hē'ting-koil), n. A coil of wire heated by the passage of an electric current and used for producing and maintaining a high temperature in various scientific operations or for industrial purposes. Also written heatcoil

heating-furnace (hē'ting-fer'nās), n. Same as reheating-furnace (which see, under furnace). heating-machine (hē'ting-ma-shēn'), n. A combined heating-furnace and automatic feeding- and conveying-machine. The leer, the reel, and the rotary oven are heating-machines, but the term is commonly applied to combined gas-furnaces and conveying-machines used in annealing, brazing, tempering, and coloring small parts of machines, hardware, and metal pipes, rods, and sheets.

heat-rash (hēt'rash), n. Prickly heat (which

heat-rash (her rash), w. Frickly heat (which see, under heat), heat-ray (hēt'rā), n. A ray of heat; specifically, one of the less refrangible, infra-red, long-waved rays of the spectrum, discovered by the elder Herschel, which are invisible and by the enter Herschel, which are invisible and have little actinic power, but are detected by means of their thermal effects. In the normal solar spectrum as studied by Langley, they extend the spectrum below the line A to a distance nearly double the length of the visible spectrum. Strictly, all rays of the spectrum are heat-rays, since when absorbed they all heat the absorbing surface. spectrum are heat-re the absorbing surfac

heat-stroke (hět'strok), n. Collapse or fever caused by exposure to excessive heat of the atmosphere. See sunstroke. Buck, Med. atmosphere. See sunstroke. Handbook, III. 195.

heat-tone (het ton), n. In thermo-chem., the sum of the heat developed in a chemical re-action and of the heat-equivalent of the external work.

Since we have reactions which evolve heat . . . and also reactions in which heat is absorbed, . . . the heat tone may be positive or negative.

H. C. Jones, Physical Chem., p. 286.

H. C. Jones, Physical Chem., p. 286.

heat-unit, n.—Gram-centigrade heat-unit, the quantity of heat required to raise one gram of water from 0° to 1° C.; a calory.—Kilogram-centigrade heat-unit, the quantity of heat required to raise one kilogram of water from 0° to 1° C.; a greater calory.

heat-wave (hēt'wāv), n. 1. A day or series of days of unusually hot weather; a hot wave; a broad area of descending wind, dynamically warmed by compression, moving eastward over the United States and often occupying several days in its transit.—2. In phys., an ether-wave days in its transit.—2. In phys., an ether-wave capable, by the transformation of the energy the vibratory disturbance into heat, of the vibratory disturbance into heat, of as hebephreniac. raising the temperature of bodies placed in its **Heberden's nodes**. See *node. path. All ether-waves are heat-waves, but the term is usually applied to the longer waves of the spectrum, because these alone possess, in general, sufficient energy to produce a noticeable heating effect. See heat, n., 2

tration of that species. Science, June 9, 1905. heav, v. and n. A simplified spelling of heare.

heav, v. and n. A simplified spelling of heave.
heav, v. i.—Heave and awash! a call to the men at the windlass or capstan signifying that one more turn or heave will bring the anchor-ring to the surface of the water.—Heave and aweigh! an order to the men at the windlass or capstan to heave once more, in order to lift the anchor from its bed.—Heave and break! Same as *heave and aweigh.—Heave and paw!! an order to the men at the capstan to heave into the pawl drops into its socket.—Heave and rally! an order to the men at the capstan or windlass to exert themselves; an encouraging cry to the crew.—Heave in! a command to get in some of the cable; haul in the slack.—Heave killick! heave anchor.—Heave round! an order to turn the capstan around by its bars or by steam-power.—Heave ahort! a command to heave in most of the anchor-chain: the cable is hove short when the ship is riding nearly over her anchor without having slack cable out.—Heave up! an order to lift the anchor from the bottom.—To heave and set, to rise and fall, as a ship, owing to the undulation of the sea; the rise and fall of the waves.—To heave astern, to move a ship backward by heaving in on the rope or cable that leads astern.—To heave away, to commence heaving in; heave round the capstan; work the windlass-brakes.—To heave the ship ahead, to advance the vessel by heaving in on the anchor-chain, or on the line leading shead.

ing ahead.

168.Ve, n.—Cornwall heave, in wrestling, a throw in which the wrestler seizes his opponent by placing one arm in front of him and the other behind him, and lifts and throws backward, falling with him.—Heave of the sea. When a vessel is sailing more or less in the trough of a heavy sea the effect of it is to drive her to leeward; this drift, or lifting off, is expressed as heave of the sea or send of the sea. A shallow vessel will be lifted off more than a deep vessel, and for that reason no general rule can be given for the navigator.

168. In geol., horizontally dispensed to the sea of the sea of

heaved (hevd), p. a. In geol., horizontally displaced by a fault: said of rock-masses or strata. Contrasted with thrown, or vertically displaced.

Heaven, n.—Son of Heaven, a translation of Chinese Tien tse, one of the titles given to the Emperor of China, who is supposed to rule by the will of Heaven. heave, n. A simplified spelling of heaves. heavy, a. II. n. 1. The heavy part in a theatrical representation in which the dignity and self-importance of successful middle life are portrayed.—2. The actor who takes this part.—3. A member of the heavy cavalry or artillery: usually in the plural.—Heavy liquor. See *liquor. heavy-back (hev'i-bak), n. A Jamaican name for a kind of helmet-shell, Cassis madagasca-

he-balsam (hē'bāl'sam), n. See *balsam. hebamic (he-bam'ik), a. [G. hebamne, a mid-wife, +-ic.] Of or pertaining to a midwife or midwifery; maieutic.

midwifery; maleutic.

But the soul is far wiser and truer than it knows and clung to what concealed worth for itself through dark ages and persecutions in a way our philosophy is too small to explain and which should forever make us treat even superstition and the blindest and narrowest orthodoxies with sympathy and if possible with the hebamic art which Socrates praised.

Amer. Jour. Relig. Psychol. and Education, May, 1904, p. 46.

hebbakhade (heb-a-kä'de), n. A gum-resin similar to myrrh, but more acrid, imported from Africa. Also called besabol and (incorrectly) East Indian myrrh.

hebephrenic (hē-bē-fren'ik), n. and a. Same

inanimate objects.

Inanimate objects.

In classifying Indian myths Major Powell distinguishes four stages in the growth of mythic philosophy. To the first of these he gives the name of hecastotheism, the stage in which supernatural powers are attributed to both animate and inanimate objects, an all pervading animism which answered the questions of how and why to the savage mind. In the second stage or zootheism this attribution of extra-natural and mysterious potencies is confined to animate forms and animals, usually by reason of some special quality, as strength, swiftness, cunning, etc., become delified. In the third stage, to which he gives the name physitheism, the agence of nature, sun, moon, stars, rain and wind become personified and exalted into omnipotence. The fourth stage, which includes the domain of the spiritual concept, has not yet been reached by any of the Amerindian tribea.

Amer. Jour. Psychol., Jan., 1903, p. 63.

hecatolite (he-kat'ō-līt), n. [Gr. Έκάτη, Hecate (the moon), $+ \lambda i\theta o$ ς, stone.] Same as moon-

hecdecane (hek'dē-kān), n. Same as *hexadecane.

hechima (hā' chē-mä), n. [Jap.] The sponge-gourd, Luffa Luffa. It is grown everywhere in Japan and large numbers of the common, spongy, fibrous variety are exported, while a slender, tender variety is cultivated exclusively as an article of food.

Heckerism (hek'er-izm), n. [Hecker (see def.) + .ism.] The theological views attributed to Rev. Isaac T. Hecker, in which he was charged with minimizing Roman Catholic doctrine to suit American notions. See *Americansem.

suit American notions. See *Americansm.

heckler, n. 2. One who severely questions and cross-questions another; specifically, one who severely questions a candidate for the purpose of finding some weak point in his political creed or professions, or of bringing out his actual opinions or position. [Great Patricial]

The man who asks questions and insists on their being answered is a familiar presence at all party meetings [in England]. One of England's many debts to Scotland is the loan of the expressive word used to describe him. He is known as the heckler. The speaker is not allowed to disregard him.

Sidney Brooks, in Harper's Mag., Aug., 1900, p. 338.

heckling-machine (hek'ling-ma-shēn'), n.

Same as heckle.

Hectarthropids (hek-tär-throp'i-de), n. pl. [NL., \ Hectarthropus + idæ.] A family of seas. caridean macrurous crustaceans having all hedgehog-mushof the trunk-legs similar in structure, simple, six-jointed, with the fifth joint not subdivided, and with the first five pairs carrying exopods. It includes the genera *Procletes, Icotopus, Eretmocaris*, and *Hectarthropus*, the last being the type

Hectarthropus (hek-tär'thro-pus), n. foot.] The typical genus of the family Hectarthropids. Spence Bate, 1888. hecto-ampere (hek'tō-am-pār'), n. In elect., one hundred amperes or ten c. g. s. units: a

practical unit of current strength

practical unit of current strength.

hectocotyliferous (hek'tō-kot-i-lif'èr-us), a.
[NL. hectocotylus + L. ferre, bear, + -ous.]

Bearing or provided with a hectocotylus: as, a hectocotyliferous male among cephalopods.

hectocotylism (hek-tō-kot'i-lizm), n. [hectocotylus + -ism.] The formation or development of a hectocotylus

ment of a hectocotylus. hectocotylize (hek-tō-kot'i-līz), v. t.; pret. and

hectocotylize (hek-tō-kot'i-līz), v. t.; pret. and pp. hectocotylized, ppr. hectocotylizing. [hectocotylus + -i.e.] To transform or modify into a hectocotylus; fecundate with a hectocotylus. hectol. An abbreviation of hectoliter. hectowatt (hek'tō-wot), n. [hecto-+ watt.] In phys., a practical unit of power equal to 100 watts or 1 × 109 ergs per second. [Rare.] hectowatt-hour (hek *tō-wot-our'), n. In phys., a practical unit of work, equal to 100 watt-hours or 360,000 joules. [Rare.]

watt-hours or 360,000 joules. [Rare.]
hed, n. A simplified spelling of head.
hedake, n., a., and v. A simplified spelling of

Hebr. An abbreviation (a) of Hebrew; (b) of Hedenstræmia (hed-en-strē'mi-ā), n. [NL., Hebrews.

Hebraizer (hē'brā-ī-zer), n. One who Hebraizes.

hecastotheism (he-kas-tō-thē'izm). n. [Gr. ἐκαστος, each, +θεός, God, +-iεm.] The type of primitive belief in which supernatural powers are attributed to both animate adianimate objects.

Hedenstræmia (hed-en-strē'mi-ā), n. [NL., acid. hedonic, a. 3. Pertaining to sexual excitement. Hedenstræmia +-idæ.] A family of ammonoid cephalopods or ammonites in which the principal septal sutures have lobes and sæddles with ceratitic outlines. It occurs in Triasgic rocks. in Triassic rocks.

heder (hā'der), n. [Heb.] In Jewish use, an heder (hā'der), n. [Heb.] In Jewish use, an inclosure; a chamber or secret compartment; specifically, a primary school for Jewish children where they are instructed exclusively in Hebrew and the Jewish religion.

hederic, a. 2. Derived from Hedera helix.—
Hederic acid, a colories compound, C16H2eQ4, found in the berries and leaves of the ivy, Hedera helix. It crystallizes in needles or scales and melts at 223° C.
hederidin(he-der'i-din), n. [heder(ine) + -id + -ine.] A colorless cleavage-product, C26 H40O4, of the glucoside hederine. It crystallizes in prisms, and melts at 324° C.
hederigerent (hed-e-rii'e-rent), a. [L. hede-

hederigerent (hed-e-rij'e-rent), a. [L. hederiger, ivy-bearing (\(\) hedera, ivy, \(+ \) gerere, bear), \(+ \) ent.] Ivy-bearing; wreathed or garlanded with ivy, as the bacchantes in the

"Oh, bathos!" said Lady Bath. . . "Is this hedge-bantling to be fathered on you, Mr. Frank?"
"It is necessary, by all laws of the drama, Madam," said Frank, . . . "that the speech and the speaker shall fit each other."

C. Kingsley, Westward Holii. 41.

hedge-bill, n. 2. In entom., a British collectors' name for a tineid moth, Cerostoma horridella.

hedgehog, n. 6. In elect., same as *hedge-hog-transformer.

Hedgehog caterpillar, crystals. See *cater-

*crystal.

pillar, *crystat.
hedgehog-converter (hej'hog-kon-ver'ter), n.
Same as *hedgehog-transformer.

hedgehog - fish (hej'hog-fish), n. Any of the porcupine-fishes of the family Diodon-tidæ, found in most tropical tropical

room (hej'hog-mush röm), n. The edible fun-

gus Hydnum Erinaceum. See hedgehog, 3. hedgehog - shell (hej'hog-shel), n. A species of Murex, M. species of Murex, henring Murex, a. o
ceus, bearing numorphis spines.

Hedgehog-mushroom (Hydnum
ceum), one fourth natural siz

hedgehog-transformer (hej'hog-trans-fôr'mer), n. A type of transformer with open magnetic circuit and a straight core of iron wires, the ends of which are separated from one another as widely as possible, like little bristles: hence the name. Also called hedgehog-converter widely as possible, like little bristles: hence the name. Also called hedgehog-converter. hedge-hook (hej'hùk), n. Alocal English term for bill-hook (which see). hedge-radish (hej'rad'ish), n. Same as wild radish (which see, under radish). hedge-rustic (hej'rus'tik), n. A British collectors' name for a European postuid mother.

name for a European noctuid moth, Lu-

tors name for a European noctuid moth, Luperina cespitis.

hedionda (ā-dē-ōn'dā), n. [Amer. Sp. hedionda, fem. (parallel to Sp. hediondo, m., applied to another plant, Syrian rue), Sp. hediondo, fetid, stinking, heder, L. fetere, stink: see fetid. I. In Porto Rico and Spanish America, the coffee-senna, Cassia occidentalis. See Cassia, l, and negro coffee (under coffee).—2. In New Mexico, the creosote-bush, Covillea tridentata.

soids or sporosacs of hydromedusans; a gonophore. Compare planoblust.

hedrumite (hed rum-īt), n. [Hedrum, in Norway, + -ite².] In petrog., a variety of syenite with little or no nephelite which has a trachytic or laminated texture due to the tabular form of the feldspar crystals. Brögger, 1890.

Hedyscepe (hệ-dis'ē-pē), n. [NL. (Wendland and Drude, 1875), $\langle Gr. \dot{\eta} \dot{\sigma} \dot{\kappa} \rangle$, sweet, charming, $+ \sigma \kappa \dot{\epsilon} \pi \eta$, shelter. The name alludes to the beauty of the type species, H. Canterburyana, which is called umbrella-palm in Lord Howe Island.] A genus of palms. See Kentia. heehaw (hē'hâ), n. The bray of an ass or

bear), +-ent.] Ivy-bearing; wreathed or garlanded with ivy, as the bacchantes in the Dionysian festivals.

Ethel, by this time breathless, threw her tambourine on the bed, and sat down. . . . The hederigerent Menads of old were never more filled with excitement.

Mortimer Collins, Marquis and Merchant, xxiii.

hederinic (hed-e-rin'ik), a. [heder-ic+-in+-ic.]

Same as hederic.

hedge-bantling (hej'bant'ling), n. An illegitimate brat.

"Oh hathoa!" said Lady Bath. . "Is this hedge"Oh hathoa!" said Lady Bath. . "Is this hedge100.—To hed in, to store (young trees) for planting by

100.—To heel in, to store (young trees) for planting by laying (them) against the side of a trench and covering the roots with earth.

roots with earth.
heel², v. t.—To heel the ship, to list the vessel over
on her side.
heel², n.—Angle of heel. See *angle3.
heel-brace (hel'bras), n. The iron shape on the lower part of a rudder, which acts as a re-inforcement to the lower pintles.

heel-chain (hel'chan), n. A light chain formerly used to secure the after end of the jib-

merly used to secure the after end of the jibboom to the bowsprit. An iron band is now
generally employed for this purpose.

Heeled bet. See *bet².
heel-fly (h6l'fil), n. The
adult of the American
ox-bot or ox-warble, an
cestrid fly, Hypoderma lineata. It files about the heels of cattle and lays its eggs on the hair, whence they are licked by the animal.

the animal.

heeling-indicator (hē'ling-in'di-kā-tor), n. An
instrument designed to
show the angle of heel or
the roll of a vessel: it may be a pendulum, the lower remale, slightly enlarged. ("Insect Life," U.S.D.A.)

Heel-fly (Hypoder

and moves over a gradu-ated arc, or a spirit-level, curved in an arc of a circle, the bubble of which indicates the angle

on a graduated scale.

heel-lashing (hel'lash'ng), n. A lashing passed around the heel of a spar; a number of turns of line around the inner end of a studdingsail-

boom and its yard; the rope that secures the inner end of the jib-boom to the bowsprit.

heel-piece, n. 3. In iron ship-building, a short length of angle-bar which is used to connect the heels of the two sections of a frame which meet at the center-line of the vessel.

heel-string (hel'string), n. The tendo Achillis. heel-tackle (hēl'tak'l), n. A purchase hooked to the heel of a spar; a tackle for securing the heel of a sheer-leg.

heemraad (hām'rād), n. [D., < heem, home, + raad, council.] A local petty court established by the Dutch in South Africa in 1682 for the settlement of minor disputes between the burghers. It consisted of the landrost and four unpaid assessors who held office for two rears

Heersian (hār'sian), a. and n. [Heers, a town in Belgium.] In geol., noting the lowest divi-sion of the Eocene Tertiary in Belgium, cor-responding in part to the Thanet sand of Eng-

heddle-setting (hed'l-set'ing), n. An arrangement of the heddles in a loom when a hedland, n. A simplified spelling of headland. hefner (hef'ner), n. A unit of intensity of light; change is made from a fine to a coarse reed, or vice versa. heddling (hed'ling), n. A set of heddle-frames for a loom.

Covillea tridentata. See Larrea. hefner, n. A simplified spelling of headland. hefner (hef'ner), n. A unit of intensity of light; the light from a standard amyl-acetate lamp of the form devised by Hefner-Alteneck. See heddling (hed'ling), n. A set of heddle-frames for a loom.

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hegemonist (hē-jem' ō-nist), n. An advocate of hegemony.

H. E. I. C. An abbreviation of Honorable East India Company.

H. E. I. C. S. An abbreviation of Honorable East India Company's Service.

Height index. Same as altitudinal *index.— Height of a homogeneous atmosphere. See *atmosphere.— Height of land. See *daid!.— Metacentric height, in naval arch., the distance from the center of gravity of the vessel as a whole to the metacenter (which see). The metacentric height is a measure of the stability of a vessel when inclined to a small angle from the position of equilibrium. Negative metacentric height is that in which the metacenter is below the center of gravity; the vessel is then in unstable equilibrium and will not remain upright although it may be stable at an inclination from the upright.— Molar height, in craniom., the height of the lower jaw at the level of the second molar.— Masal neight, in craniom, the distance from the nasion to the medial point of the level of the inferior margin of the nasal sperture.

height-gage (hīt'-

height-gage (hīt' $g\bar{a}j$), n. A fine steel measuringinstrument for ascertaining the height of projections above a plane surface. It measures in thousandths of an inch.

height-measure (hīt'mezh"ūr), n. An instrument for measuring the height of a tree. the

An instrument measuring the height of a tree.

The instrument is set up where the operator can readily see both the top and the base of the tree, and the oblique distance from the center of the instrument to the base of the tree is measured. The sliding, weighted rule is then set on the base rule at the graduation corresponding to the measurement just procured. A sight is then taken through the eyepiece and the objective on the base rule to the base of the tree, the hair of the objective being brought into line with the base of the tree. A screw is set to hold the instrument at this angle. A second sight, to bring the hair of the objective on the oblique rule in line with the top of the tree, is then taken. The height of the tree is indicated on the upright rule at the point where the edge of the oblique rule passes it.

heimin (hā-min'), n. [Jap., \(hei.\) common, + \(min,\) peoplo.] In Japan, \(hei.\) common, the common people, as distinguished from the nobility.

heintzite (hint'zīt), n. [G. heintzit (1890), named after Prof. W. H. Heintze, of Halle, heiming in color
heimin (ha-min'zite), and the objective of the lease of the objective heing brought into line with the top of the tree, is then taken. The height of the tree is indicated on the upright rule at the point where the edge of the objective heing brought into the objective heing brought into the open spiral, the coils of which do not touch. It occurs in the Cretaceous heilicoid, n. 2. A helicoid parabola.—Skew helicoid, helicoid, helicoid.—Helicoida anemometer. See *\(\text{*anemometer}\).

heimin (hā-min'zīt), n. [G. heintzit (1890), named after Prof. W. H. Heintze, of Halle, heimin (hactivop, elbow, arm.?] A genus of parabola.—Skew helicoid, helicoid,

at Leopoldshall, Strassfurt, Prussia.

at Leopoidsnail, Strassiurt, Frussia.

heir, n.—Irregular heir, in the civil law of Louisiana, one who takes the succession by provision of law when there are neither legal nor testamentary heirs.—Legal heir, in civil law, one of the same blood as the descendant who takes the succession by force of law rather than by will. There are three classes: (a) children and lawful descendants; (b) parents and lawful ascendants; (c) collateral kindred.

lateral kindred.

hei-tiki (hā-tē/kē), n. [Maori, $\langle hei, a \text{ neck} \rangle$ amount of reducing substance.

ornament, + tiki, a carved figure on the gable of ahouse, also the name of a deity, the creator of man.] Among the Maoris, a small jade figure or image worn around the neck.

hel, n and v. A simplified spelling of hell.

hel, n and v. A simplified spelling of hell.

helicorphine (hel/i-kō-rħ/hin) n [Gr. the helicorphine]

helbeh (hel'be), n. [Ar. hilba.] The fenugreek, Trigonella Fænum-græcum, and especially its seeds, which when made into flour and mixed

seeds, which when made into flour and mixed with dhurra form a food largely used by the working classes of Egypt. See fenugreek.

helcodermatous (hel-kō-dèr'ma-tus), a. [Gr. ελκειν, draw, + δερμα(τ-), skin, +-οus.] Boring or tearing; given to boring or tearing.—Helcodermatous spine. See **prine.

Helderberg group. See **group1.

hefner-meter
hefner-meter (hef'ner-mē'ter), n. A unit of illumination, the illumination from a source of light equal in intensity to one hefner at a meter's distance; a lux.
heft5, n. 2. A part or number of a serial publication, as of a magazine; a division of a work which is being issued in parts.
hegemon (hej'e-mon), n. [Gr. ἡ/ϵμων, a leader: see hegemony.] A leader; a ruling power.
The hegemon of the Western hemisphere is the United States. Her power is paramount, as all the world recognizes.

The Forum, Jan. March, 1904, p. 34.
hegemonist (hel-der-ber'gi-an), n. In geol., a group of strata, regarded by New York power york geologists as of earliest Devonian age, lying on the water-limes of the late Silurian and overlain by the Oriskany sandstone. It takes its the Helderberg are lower to the members, from the beauty of the water-limes of the late Silurian and overlain by the Oriskany sandstone. It takes its related twig-like form of calcium carbonate which occurs in caves in limestone. Helietta (hē-li-et'ā), n. [NL. (Tulasne, 1847), named in honor of Th. Hélie, a French physication of the Western hemisphere is the United States. Her power is paramount, as all the world recognizes.

The Forum, Jan. March, 1904, p. 34.
hegemonist (hel-der-ber'gi-an), n. In geol., a group of strata, regarded by New York over York one the Helderberg is geologists as of earliest Devonian age, lying on the Helderberg is geologists as of earliest Devonian age, lying on the Helderberg is geologists as of earliest Devonian age, lying on the Helderberg is geologists as of earliest Devonian age, lying on the Helderberg is geologists as of earliest Devonian age, lying on the Helderberg is geologists as of earliest Devonian age, lying on the Helderberg is geologists as of earliest Devonian age, lying on the Helderberg is geologists as of earliest Devonian age, lying on the Helderberg is geologists as of earliest Devonian age, lying on the Helderberg is geologists as of earliest Devonian age, lying on the Helderberg is geologists as of ea

yellow, oily hydrocarbon which is formed when helenin is distilled with phosphorus pentoxid.

of hegemony.

Hegetotheriidæ (hē'jē-tō-thē'ri-i-dē), n. pl.

[NL. Hegetotherium, the type genus, + -idæ.]

A family of extinct ungulate mammals, of the suborder Typotheria, from the Eocene of Patagonia. Ameghino, 1894.

H. E. I. O. An abbreviation of Honorable East India Company.

H. E. I. O. S. An abbreviation of Honorable East India Company's Service.

Heleptic sidstilled with phosphorus pentoxid. heleoplankton (hē-lē-ō-plangk'ton), n. [Gr. ἐλεος), a marsh, + NL. plankton.] The plankton of a marsh.

heleoplankton (hē-lē-ō-plangk'ton), n. [F. hélépole, < LL. helepolis, < Gr. ἐλέπολις, a besieging engine, γcity-taking' (applied to Helen and liphigenia), ⟨ ἐλείν, take, + πόλις, city.] A military engine anciently used in sieges: supposed to have been invented by Demetrius Policycetics.

helianthic (hē-li-an'thik), a. [Helianthus + -ic.] Pertaining to the sunflower.—Helianthic acid, a colorless compound, C14H18O8 which occurs in sunflower seeds. It is resolved by diute mineral acids into a fermentable sugar and an acid-violet coloring-metter.

helichryse (hē'li-krīz), n. [= Helichrysum, Anglicized.] Some golden-flowered plant, perhaps ideal.

While curling through lush grass one spies
Tendrils of honied helichryse.
Symonds, in the Key of Blue. N. E. D.

Symonds, in the key of Blue. N. E. D.

helicin (hel'i-sin), n. [Appar. $\langle Gr. \tilde{\epsilon}\lambda\iota\xi (\tilde{\epsilon}\lambda\iota\kappa_{-}),$ a spiral, $+ -in^2$.] A colorless compound, $C_6H_{11}O_5OC_6H_4CHO$, which is formed by the action of nitric acid on salicin. It crystallizes in slender, silky needles, melts at 175° C., and if the gluonide of orthodoxymorphic probability. is the glucoside of orthohydroxybenzaldehyde.

is the glucoside of orthohydroxybenzaldehyde.

Helicina (hel-i-si'nä), n. [NL., appar. < Gr. ἐλιξ (ἐλικ-), a spiral, + -ina.] The typical genus of the family Helicinidæ. About 500 species are known, most of which inhabit the Antilles, none being found in Africa. Lamarck, 1799.

Helicinidæ (hel-i-sin'i-dē), n. pl. [NL., < Helicina+-idæ.] A family of rhipidoglossate gastropods of the order Streptoneura, having the epipodium without tentacles, branchia absent, mantle-cavity transformed into a pulmonary

of ammonoid cephalopods snowing physiquenes senility in the open spiral, the coils of which do not touch. It occurs in the Cretaceous rocks.

A helicoid parabola.—Skew

Mall Gazette, Jan. 8, 1900. [Leare.]

helicometry (hē-li-om'e-tri), n. [As helicometer + -y³.] The art of using the helicometer; also (rarely), the art of making measurements upon the current of the current parabola.—Skew

liant red coloration, found in the deep waters of both the Atiantic and Pacific. H. dactylopterus of the Mediterranean (extending to the Gulf Stream and Japan) is the best-known species.

helicopepsin (hel'i-kō-pep'sin), n. [Gr. ελιξ (έλικ-), a spiral shell, + E. pepsin.] A pepsin-like ferment which is found in snails.
helicoproteid (hel'i-kō-prō'tō-id), n. [Gr. ελιξ (έλικ-), a spiral shell, + E. proteid.] A nucleoalbumin which is found in the albuminous gland of snails. It contains a large amount of reducing substance.
helicopter (hel-i-koo'ter), n. [Gr. ελιξ (έλικ-).

which revolving screws or revolving hencodar surfaces are depended upon to sustain the machine in the air.

helicorubine (hel'i-kō-rō'bin), n. [Gr. ελιε (έλικ-), a spiral shell, + L. rubus, red, + -ine².] Àn orange-red pigment found in the so-called livers of certain invertebrates.

Helicosporium (hel'i-kō-spō'ri-um), n. [NL. (Nees, 1816), \langle Gr. $\tilde{\epsilon}\lambda d\xi$, a spiral, $+\sigma \pi o \rho d$, seed (spore).] A genus of hyphomycetous fungi which have a creeping mycelium with short, erect, dark-colored conidiophores bearing curled or spiral, hyaline or colored septate

-ité².] A twisted twig-like form of calcium carbonate which occurs in caves in limestone. Helietta (hē-li-et'ā), n. [NL. (Tulasne, 1847), named in honor of Th. Hélie, a French physician and pharmacologist.] A genus of shrubs or trees of the family Rutaceæ. It is related to the hop-tree, Ptelea, but the fruit has three or four carpels, with oblique wings similar to those of a maple. There are two species, one in Colombia, the other (for which see *barreta) in Texas and Mexico.

Helicolond wallow Saa *kullon*

Heligoland yellow. See *yellow.
Heliocentric parallax. See *parallax.
heliocentrically (hē'li-ō-sen'tri-kal-i), adv.
In a heliocentric manner; as if from the sun's center.

heliochrome (hē'li-φ-krōm), n. [Gr. ήλιος, the sun, $+\chi\rho\bar{\rho}_{\mu}a$, color.] A photograph showing an object in its natural colors; specifically, the product of a process devised by Niepce. See heliochromotype.

heliochromoscope (hē'li-ō-krō'mō-skōp), n. Gr. ἢλιος, the sun, + χρωμα, color, + σκοπεῖν, view.] A device for superposing three specially prepared photographs of an object, one with red, one with green, and one with blue-

with red, one with green, and one with one-violet light, so as to obtain a picture in the natural colors. See *chromascope, with cut. heliofugal (hē-li-of'ṭ-gal), a. [Gr. ηλιος, the sun, + L. -fugus, < fugere, flee, + -al.] Moving away from the sun, or tending to produce such mation such motion.

heliogram (hē'li- $\bar{\phi}$ -gram), n. [Gr. $\bar{\eta}\lambda\iota\sigma\zeta$, the sun, + $\gamma\mu\dot{\alpha}\mu\mu\alpha$, a writing.] A message which is transmitted by heliographic methods. See

is transmitted by heliographic methods. See heliograph.

Heliographic chart, paper. See *chart, *paper.
heliographically (hē'li-ō-graf'i-kal-i), adv. By heliography; through the heliograph.

Heliolites (hē'li-ō-li'tēz), n. [NL., ζ Gr. ἢλιος, the sun, + -l-ites, after F. - lithe, ζ Gr. λίθος, a stone.] A genus of fossil

alcyonarian

aley on a rian corals of the family Helioporidæ. They grow in massive coralla in which the autopores have pseudosepta or spinules and sometimes a columella; the siphonopores being without septa and multiplying by flasion or intramural gemmation. The genus is characteristic of the Upper Silurian, but also occurs in the Devonian.

heliologue (hē'li-ō-log), n. [Gr. ἡλιος, the sun, + λόγος, word.] Same as *heliogram. Pall Mall Gazette, Jan. 8, 1900. [Rare.]

heliometry (hē-li-om'e-tri), n. [As heliometer

the sun.

heliophobia (hē'li-ō-fō'bi-ā), n. [NL., < Gr. ηλιος, the sun, + φοβία, < φοβείν, fear.] A morbid dread of sunlight.

bli dread of sunnight.

heliophobous (hē-li-of'ō-bus), a. [Gr. ήλως,
the sun, + -φοβος, < φοβείν, fear.] In phytogeog., shunning full sunlight: said of plants which require shade. F. E. Clements.

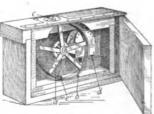
white require shade. T. E. Clements.

heliophotography (hē'li-ō-fō-tog'ra-fi), n.

this [Gr. ηλιος, the sun, + E. photography.] Phopsintography of the solar surface. Woodbury,
Encyc Dict. of Photog., p. 304.

[Gr. heliophotome] A ter (hē'li-ō-fō
unit ter (hē'li-ō-fō-

tom'e-ter), [Gr. ήλιος, the sun, + $\phi \tilde{\omega} \varsigma$ ($\phi \omega \tau$ -), light, + μέτρον, mea-sure.] In meteor., a special apparatus for recording the



sunlight: constructed by Professor Craveri and in use at the observatory Brá, near Turin, since 1874.

heliophyllite (hē-li-of'i-līt), n. [Gr. ἡλιος, the sun, + φύλλον, leaf, + -ite².] Same as *codomsun,

Heliophyllum (hē-li-ō-fil'um), n. [NL., < Gr. ηλιος, the sun, + φίλλον, leaf.] A genus of tetracorals of the family Cyathophyllidæ, which grow as simple, occasionally composite coralla, the septa bearing fine vertical ridges or carinæ It occurs in Devonian rocks.

heliopolar (hē'li-ō-pō'lār), a. [Gr. $\hat{\eta}\lambda\omega_{\varsigma}$, the sun, $+\pi\delta\lambda\alpha_{\varsigma}$, pole: see polar.] Related to the pole of the sun's rotation as determining one axis of coordinates.

The vector diagram in heliopolar coordinates takes the form of a conical surface around the Sun.

Science, Feb. 7, 1902, p. 223.

helioscopy (hē'li-os'kō-pi), n. [Gr. ἡλως, the sun, + -σκοπία, < σκοπείν, view.] Observation of the sun; the use of the helioscope.

glucose and acent acid, by the hydrolysis of hellebore.

hellebore.

helleboric (hel-e-bō'rik), a. Of or pertaining to hellebore.

heliotactic (hē'li-ē-tak'tik), a. [Gr. $\hat{\eta}\lambda\omega_{\zeta}$, the sun, $+\tau \hat{\alpha}\xi \iota_{\zeta}$, disposition (see tactic).] Sensitive to or responsive to the sun's rays.

It would be extremely interesting to learn something of the mating habits of these highly heliotactic males and wingless females.

Biol. Bulletin, May, 1904, p. 253.

heliotherapy (hē'li-ō-ther's-pi), n. [Gr. ηλιος, the sun, + θεραπεία, medical treatment.]
Treatment of disease by means of sunlight: a form of phototherapy. Lancet, July 11, 1903, . 104.

heliothermometer (he'li-ō-ther-mom'e-ter,, n. [Gr. ήλιος, the sun, + E. thermometer.] An instrument for determining the intensity of solar radiation: usually a black-bulb therefore radiation: usually a black-bulb therefore radiation in a glass-covered case internally blackened.

heliotrope, n. 6. A direct coal-tar color of the disazo type, derived from dianisidine. It dyes unmordanted cotton reddish violet in an alkaline salt bath.—Alisarin heliotrope, a mordant dyestuff which produces reddish-violet shades with an aluminium mordant. Its constitution has not been published.—Heliotrope 2B, a direct coal-tar color of the disazo type, derived from benzidine.

heliotropin (hē-li-ot/rō-pin), n. [heliotrope + -in²] Same as *piperonal.

heliotypography (he'li-ō-ti-pog'ra-fi), n. [Gr. ήλος, the sun, + τύπος, type, + -γραφία, < γράφειν, write.] The art of making heliotypes; phototypy; collotypy; that process in photo-engraving in which a gelatin film toughened by the action of chrome-alum is employed.

helioxanthin (he'li-ō-zan'thin), n. [Gr. $\eta\lambda\omega_{0}$, the sun, $+ \xi \dot{\alpha} v \theta o_{0}$, yellow, $+ -in^{2}$.] An acid coal-tar color: same as diphenylamine-orange

which see, under orangel).
heliosincography (he li-ō-zing-kog'ra-fl),
[Gr. ἡλος, the sun, + E. zincography.]
photog., a method of reproducing directly of sensitized zinc plate in contact with a reversed negative. See the extract.

negative. See the extract.

For the rapid reproduction of maps photozineography was, until a few years ago, the method invariably used. Two new methods have now superseded photozineography; one of these, "heliozineography," was worked out by the Ordnance Survey, and subsequently adopted by the Survey of India; the other, the "Vandyke process," was invented by Mr. Vandyke, of the Survey of India, and has now been adopted by the Ordnance Survey. The first method consists in reproduction direct on a sensitised zinc plate in contact with a reversed negative.

Nature, Nov. 19, 1903, p. 60.

helixigenin (hē-lik-sij'e-nin), n. [helixi(n) + -gen + -in².] A crystalline compound, C₂₆ H₄₀O₄ obtained, together with glucose, by heating the glucoside helixin with dilute mineral soids.

eral acids.

helixin (hē'lik-sin), n. [helix (see def.) +
-in.] A white crystalline glucoside, $C_{32}H_{52}$ $O_{10} + 2H_2O$, contained in the leaves and seeds of the English ivy, Hedera Helix.

helixoid (hē'lik-soid), a. and n. Same as helicoid.

hell¹, n.— Harrying or harrowing of hell. See harrying.—The hound of hell. See *hound.
hellandite (hel'an-dit), n. [Named after Prof. Ahmund Helland, Christiania.] Asilicate of calcium, the cerium metals, aluminium, and iron, which occurs in monoclinic crystals in peg-matite veins near Kragerö, Norway: related to guarinite. The crystals are more or less hydrated and have become optically isotropic

fly or its larva.

helleborate (hel-e-bō'rāt), a. [hellebore -atel.] Mixed or prepared with hellebore.

helleborein (hel-e-bō'rō-in), n. [hellebore + Thellebore +

+-in².] A colorless glucoside, C₂₆H₄₄O₁₅, the most important constituent of black and the most important constituent of black and green hellebore-roots (Helleborus niger, H. viridis, and H. fætidus). It crystallizes in nodules which carbonize at 280° C., has a sweet taste, and is poisonous. Helleborin, $C_{36}H_{42}O_6$ (f), occurs with it. It is a powerful intestinal irritant and is used in veterinary medicine.

helleboresin (hel'e-bō-rez'in), n. [hellebo(re) + resin.] A resinous substance, C₃₀H₃₈O₄, formed, together with glucose, by the action of dilute acids on helleborin.

+ Gr. partin, resin.] A greenish amorphous powder, C₁₉H₃₀O₅, formed, together with glucose and acetic acid, by the hydrolysis of hellebore. helleboretin (hel'e-bō-rē'tin),

to hellebore.

helleborism, n. 2. Symptoms due to poisoning by hellebore.

Helleno-Italic (hel'en-ō-i-tal'ik), a. Relating to the ancient Greeks and Italians of Roman affinity.

affinity.
heller, n. 2. A modern Austrian coin, the one-hundredth part of a crown.
Helleria (he-le'ri-\(\frac{1}{2}\)), n. [NL. (Ebner, 1868), \(\lambda\) G. Heller, a surname.] The typical and only genus of the family Helleridæ. The single species, H. brevicornis, is found in damp moss in Corsica and Italy.

hellhofite (hel'hof-it), n. [From a surname Hellhoff + -ite².] An explosive consisting of a mixture of dinitrobenzene and nitric acid: one of the Sprengel safety-mixtures.

hell-matter (hel'mat'er), n. Broken or battered type or printing-material that has been condemned to or put in the hell-box. See *hell-box. [Printer's slang.]

helm¹, n.— Helm-angle indicator. See *helm-indicator.— Helm circle. See *circle.— Lee helm, the position of the tiller when the forward end or head is over on the lee side. See alee.— Port helm, the position of the tiller when the forward end or head is over on the lee side. See alee.— Port helm, the position of the tiller when its head is on the port side of the midhip line of the vessel.— Put the helm up) an order to put the tiller to leeward.— Put the helm up) an order to put the tiller to windward.— Starboard helm, the
position of the tiller when its head is on the starboard side of the midship line of the vessel.— To carry a hard helm, said of a vessel when the wheel turns hard or when great effort is required to get it to respond to the rudder.

— To carry a lee helm, said of a vessel the tendency of which is to go off from the wind, and which requires a lee tiller to keep its head up. This is a dangerous fault, since it may be the means of sending a vessel off into the trough of the sea.— To carry a easy helm, said of a vessel which steers without effort or requires only a very moderate wheel (number of spokes) to change the direction of its head.— To carry a weather helm. (a) See carry. (b) Said of a vessel the tendency of which is to keep coming up into the wind, and which requires that the tiller be kept more or less to windward to counteract it.— To meet the helm, to put the tiller over to the opposite side, so as to counteract the swinging of the ship.—To put the helm aloe. See alee.—To put the helm awather, to shove the tiller over on the weather side ward.

helmet, n. 6, In entom., the galea of an insect's

helmet, n. 6. In entom., the gales of an insect's maxilla.—7. pl. A breed of small, fancy pigeons which have a white body and the tail and top of head black or red. The name is given in allusion to this cap or helmet.—Helmet creamer. See

helmet-hornbill (hel'met-hôrn'bil), n. *hornbill.

helmet-urchin (hel'met-er'chin), n. sea-urchin of the family Galeritidæ.

Helmholtz pendulum. See *pendulum.

Helmholtzian (helm-hölt'si-an), a. Of or pertaining to the German physicist, physiologist, and psychologist Hermann Ludwig Ferdinand von Helmholtz, or to his work or theories: as, the Helmholtzian fundamental colors ate colors, etc.

helm-indicator (helm'in'di-kā-tor), n. Naut., an electrical or mechanical apparatus for in-dicating in the pilot-house or other steering-station the position of the helm or rudder. Also called helm-angle indicator and rudder-

hydrated and have become options, in consequence of alteration.

hell-box (hel'boks), n. The box provided for the bruised or condemned types of a printing-house. [Printers' slang.]

The hellgrammiteon stone (a fossil), or a worm-like mark in the stone of the sto

Helminthochiton (hel-min-thō-kī'ton), n. [NL., ⟨Gr. ἐλμις (ἐλμινθ-), worm, + NL. Chiton, a genus of mollusks.] A genus of chitons or

polyplacophorous mollusks from the Silurian

helmintholite, n. 2. Same as *helminthitc.-

Lumachelle or fire-marble. helminthophobia (hel-min-thō-fō' bi-ä), n. [NL., ζ Gr. ἐλμις (ἐλμινθ-), worm, + -φοβία, ζ φοβείν, fear.] A morbid dread of intestinal worms, usually associated with an illusion of being infested with them.

being infested with them.

helminthous (hel-min'thus), a. [Gr. ελμις

helminthous (hel-min'thus), a. [Gr. ελμι (ελμανθ-), worm, + -ous.] 1. Infested with intestinal worms.—2. Relating to worms, espe-

cially intestinal worms.

helmitol (hel'mi-tol), n. A colorless, crystalline citric-acid derivative of hexamethylene-tetramine; hexamethylene-tetramine-anhydromethylene citrate: recommended for nydromethylene citrate: recommended for cystitis, urethritis, pyelitis, etc.

helm-kick (helm'kik), n. A sudden jerk of the rudder in a seaway.

helm-port(helm'port), n. Same as rudder-port.

helm-wind (helm'wind), n. Any wind that has the particular combination of moisture and wind-direction necessary to produce helm-

freedo Helohyidæ (hē-lō-hī'i-dē), n. pl. [NL. Helohyus, type genus, + .idæ.] A family of extinct artiodactyl mammals which have distant affini-

ties with the hogs whose remains occur in the Bridger Eocene. Marsh, 1877.

helotism, n. 3. The maintenance, by animals of one species, of individuals of another species in return for their labor as servants.—4. In bot., a peculiar form of symbiosis in which one organism bears to another the relation of slave to master; noting especially the relation of the algal to the fungal component of a lichen: opposed to mutualistic *symbiosis. Warmina.

heloxyle (hē-lok'sil), n. [Gr. ελος, bog, + ξέλον, wood.] Peat-fiber compressed and hardened into various forms for use in building walls, ceilings, floors, etc.: esteemed where dryness, warmth, and freedom from noise are desired. Sci. Amer. Sup., May 21, 1904. p. 23735.

helth, helthy. Simplified spellings of health, healthy.

helv, n. and v. A simplified spelling of helve.

Helvelius, great circle of. See *circle.

helvellaceous (hel-ve-lā'shius), a. Resembling or pertaining to the family Helvellaceæ or the order Helvellales.

order Helvellales.

Helvellales (hel-ve-lā'lēz), n. pl. [NL., < Helvella + -ales.] An order of discomycetous fungi having ascomata of various forms and including the families Geoglossaceæ, Helvellaceæ, and Rhizinaceæ. Also Helvellineæ.

helvellic (hel-vel'ik), a. [Helvella + -ic.]
Pertaining to or derived from Helvella.— Helvella acid found in certain mushrooms of the helvella family: particularly abundant in old plants.

Helvellines (hel-ve-lin'ē-ē), n. pl. Same as *Helvellales.

Helvetian epoch. See *epoch.—Helvetian stage, a term employed by the French geologists to designate the middle division of the Miocene Tertiary both in Switzerland and in the Paris basin. These deposits are profuse in remains of marine mollusks as well as in mammalian -mastodon, hippopotamus, monkeys

Helvidian (hel-vid'i-an), a. and n. [NL. Hel-vidianus, < Helvidius (see def.).] I. a. Pertaining to the doctrine of Helvidius, a layman of the fourth century, who denied the perpetual virginity of the mother of Christ.

gimey of the mother of Christ. II. N. One who holds the view of Helvicius. Helygia (he-lij'i-ä), n. [NL. (Blume, 1826), irreg. (instead of "Helicia) $\langle Gr. \ell n \xi (\ell n k) \rangle$, a spiral. The name alludes to the twining habit of the species.] A genus of dicotyledonous plents belonging to the family Apocynaccæ. ee Parsonsia, 2

helypsometer (hel-ip-som'e-ter), n. [Irreg. (Gr. ήλιος, the sun, + E. hypsometer.] In photog., a photographic instrument for deterphotog., a photographic instrument for determining latitude at sea. It consists of a hollow brass lemisphere, about 10 inches in diameter, swung in gimbals, and has a closely fitting cover, pierced at its center with a small round hole. The apparatus is mounted on a foot or base. The silvered interior surface is sensitized with the vapor of iodine. When the cover of the instrument is adjusted and placed in sunlight, the path of the sun is traced on the sensitive surface. By applying a circular protractor after the exposure, the sun's attitude is found in degrees and minutes.

hemachromatosis, hæmachromatosis (hem'a-krō-ma-tō'sis), n. Bad forms for *hemato-chromatosis. hemacite, hamacite (hem'g. sit), n. [Altered, by blunder or intention, from *hematite (which is used in another sense), (Gr. alµa, blood, +
-ite².] A plastic material, a substitute for horn, made from blood with the addition of sundry vegetable and mineral materials.

hemacyte, hæmacyte (hem-a-sit), n. forms for *hemocyte, *hematocyte.

hemacytozoon, hæmacytozoon (hem'a-sī-tō-zō'on), n.; pl. hemacytozoa, hæmacytozoa (-š]. [Prop. hemo-; < Gr. aiμa, blood, + κύτος, a hollow (a cell), + ζφον, animal.] An animal microparasite of the blood-cells. Buck, Med. Handbook, V. 674.

hemad, hæmad (hem'ad), n. [Gr. alµa, blood, + -ad².] A hematocyte or blood-corpuscle. hemadromometer, hæmadromometer (hem'a-drō-mom'e-ter), n. [Prop. hemo-; < Gr. αἰμα, blood, + ὁρόμος, a running, + μέτρον, measure.] A device for measuring the rapidity of the blood-current.

hemagglutinative, hamagglutinative (hemagglutinative), a. Causing agglutination or clumping of red blood-corpuscles.

I have also tested abrin and ricin, which are strongly hemapglutinative, without finding a corresponding protection. Hideyo Noguchi, in Jour. Exper. Med., VII. 201.

hemagglutinin, hæmagglutinin (hem-a-glö'-

ti-nin), n. Same as *hemoagglutinin.

hemal: I. a.—Hemal axis. Same as acorta.—Hemal canal. See **canal!.—Hemal process, the arch below the centrum of a vertebra in fishes. Starks, Synonymy of the Fish Skeleton, p. 524.—Hemal ridge. See *ridgs. the Fish Skeleton, p. 524.— Hemal II. n. Same as hemal spine.

Caudal with long neurals and hamals.

Brit., XXIX. 397.

hemalum, hæmalum (hem'a-lum), n. [hemal, hæmal, + -um.] Same as ammonia *hematate. Lancet, July 4, 1903, p. 13.
hemamæba, n. See *Hæmamæba, 2.
hemangioma, hæmangioma (hem-an-ji-ō'-mä), n.; pl. hemangiomata, hæmangiomata (-ma-tä). [NL. hemangioma(, Gr. alµa, blood, + NL. angioma] A tumor composed of blood. (-ma-ts). [NL. hæmangioma, (Gr. aiµa, blood, + NL. angioma.] A tumor composed of bloodvessels; an angioma.

vessels; an angioma.

hemapophysis, n. 2. A lateral process in fishes to which the rib is usually attached. The term hemapophysis is used by Vogt and Yung for the bone so named by Owen and for the bone called parapophysis by Owen. Stark, Synonymy of the Fish Skeleton, p. 525.

hemarthrosis, hæmarthrosis (hem-är-thrō-sis), n. [Gr. aiμa, blood, + ἀρθρον, joint, + -osis.] Effusion of blood into a joint.

hemase, hæmase (hem'ās), n. [Gr. aiμa, blood, + -ase.] A catalase found in the blood.

hematachometry, hæmatachometry (hem ata-kom e-tri), n. [Prop. hemo-; ζ Gr. aiμα, blood, + ταχύς, swift, + μέτρον, measure.] Measurement of the rapidity of the circulation of the blood.

of the blood. hemataërometer (hem'-a-ta-e-rom'e-têr), n. [Gr. $al\mu a(\tau-)$, blood, + $a'\eta \rho$, air, + $\mu \ell \tau \rho \rho \nu$, measure.] A device for estimating the pressure of gases in the blood. Buck, Med. Handbook, VI. 950. hematate, hæmatate (hem'a-tāt), n. [Gr. $ai\mu a(\tau-)$, blood, + - ate^1 .] A compound of hematein.—Ammonia hematate, an unstable violet-black compound, $C_{16}H_{12}O_{6}2NH_{3}$, of ammonia and hematein. It is used as a stain for microscopical preparations.

It is used as a stain for microscopical preparations.

hematherapy, hæmatherapy (hem-a-ther'api), n. Bad forms for *hematotherapy.

hematicum, hæmaticum (hē-mat'i-kum), n.
[NL. hæmaticum, < Gr. alµaruóc, of blood: see
hematic.] A red-brown, clear, aqueous-alcoholic
solution of neutral iron compounds. It is used in medicine.

hematid, hæmatid (hem'a-tid), n. [Gr. aiμa(τ-), blood, +-id².] A red blood-corpuscle. hematimeter, hematimeter (hem-a-tim'e-ter), n. [Properly *hematometer, < Gr. αίμα (αίματ-), blood, + μέτρον, measure.] A form of hemochromometer, hemoglobinometer, or hematinometer.

hematimetry, hematimetry (hem-a-tim'e-tri), n. [Properly *hematometry: see *hematimeter.] The process of counting the number

of corpuscles in a given quantity of blood.

hematinic, n. II. a. Relating to hematin.—

Hematinic acids, two acids, C₈H₂O₄N and C₈H₈O₅,

discovered by Küster, formed upon oxidation of hematin. discovered by Küster, formed upon oxidation of hematin.

hematinon (hē-mat'i-non), n. [Also erron.

hæmatinone (Watts); < L. hæmatinon (sc. vitrum,
glass), < Gr. aluárvov, neut. of aluárnoc, bloody;
see hæmatinum and hematin.] Same as hæmatinum; also, a similar red glass made by modern processes. H. Watts, Dict. of Chem., III. 3. hematite, n. 2. An intaglio cut in hematite.

There is in the British Museum a certain lenticular smattle.

A. B. Cook, in Jour. Hellenic Studies, XIV. 188. Brown hematite. Under this name, or that of brown iron ore, are included both the mineralogical species limonite and goethite. Thorps, Dict. Applied Chem.,

hematobium, hæmatobium (hem-a-tō'bi-um).

hematobium, næmatobium (nem-a-to bi-um), n.; pl. hematobia, hæmatobia (- $\frac{\pi}{6}$). [NL. hæmatobium, \langle Gr. a' μ a(τ -), blood, + β ios, life.] A blood-parasite; one of the Hæmatozoa. hematoblastic, hæmatoblastic (hem'a-tō-blas'tik), a. [hematoblast + -ic.] Pertaining to or of the nature of a hematoblast; having reference to the formation of blood-corpuscles. hematocathartic, hæmatocathartic (hematō-ka-thār'tik), a. [Gr. alμα(τ-), blood, + καθαρτικός, cathartic.] Tending to purify the

hematocele, n.—Pelvic hematocele, effusion of blood into the cellular tissue beneath the peritoneal covering of the uterus and adnexa, or into the cavity of the peritoneum between the uterus and the rectum.—Pudendal hematocele. See pudendal.—Scrotal hematocele, a tumor caused by effusion of blood into the tunica vaginalis testis or into the tissues of the scrotum. hematochezia, hematochezia (hem's-tō-kē'-zi-š), n. [NL. hematochezia, < Gr. aiµa(r-), blood, + xtζen, evacuate the bowels.] Passage of blood from the bowels.

hematochlorin, hematochlorin (hem'a-tō-klō'-rin), n. [Gr. $ai\mu a(r-)$, blood, $+ \chi \lambda \omega \rho \delta c$, green, $+ -in^2$.] A green pigment which has been obtained from the marginal zone of the placenta.

hematochromatosis, hematochromatosis (hem's- $t\bar{\phi}$ -kr $\bar{\phi}$ -ma- $t\bar{\phi}$ 'sis), n. [Gr. $ai\mu a(r-)$, blood, $+\chi\rho\bar{\omega}ua$, color, +-osis.] The general staining of the tissues with blood-pigment.

staining of the tissues with blood-pigment.
hematochrome, hæmatochrome (hem'a-tō-krōm), n. [Gr. alμa(τ-), blood, + χρωμα, color.]

1. The red coloring-matter of the eye-spot or stigma of the Flagellata and other Protozoa.—

2. The red coloring-matter of Sphærella and a few other algæ. It is contained in an oily schotter instead of a charmotophere. a few other alge. It is contained is solution instead of a chromatophore.

solution instead of a chromatophore.

hematocrit, hematocrit (he-mat'ō-krit), n.
[Gr. αἰμα(τ-), blood, + κριτής, judge, < κρίνειν,
separate, decide.] A centrifuge with accurately graduated tubes, used for determining the volume of the corpuscular elements in a given quantity of blood. Also hematokrit, hæmatokrit.

hematocyanin, hæmatocyanin (hem'a-tō-sī'-a-nin), n. A more correct form of hemocyanin. hematocyst, hæmatocyst (hem'a-tō-sist), n. [Gr. $a\mu a(\tau)$, blood, $+\kappa i\sigma \tau u$, bladder (cyst).]

1. A cyst with bloody contents.—2. Hemorrhage into the bladder.

hematocyte, hæmatocyte (hem'a-tō-sit), n. [Gr. $ai\mu a(\tau-)$, blood, $+\kappa i\tau o c$, a hollow (a cell).]

[Gr. aiμa(τ-), blood, + κίτος, a hollow (a cell).] A blood-corpuscle. hematocytometer (hematocytometer, hematocytometer (hematocy, a hollow (a cell), + μέτρον, measure.] A device for counting the blood-cells. hematodynamics, hæmatodynamics (hemato-di-namiks), n. [Gr. aiμa(τ-), blood, + Ε. dynamics.] A more correct form of hematodynamics (which see).

hematodynamometer, hæmatodynamometer (hem's - $t\bar{o}$ - di - n_s - mom'e - ter), n. [Gr. $ai\mu a(\tau -)$, blood, + E. dynamometer.] A more correct form of hemadynamometer (which see). hematodyscrasia, hæmatodyscrasia (hem'a-tō-dis-krā'si-ā), n. [NL. hæmatodyscrasia, ζ Gr. aiμa(τ-), blood, + δυσκρασία, bad tempera-ment: see dyscrasia.] A disease of the blood. hematogen, hæmatogen (hem'a-tō-jen), n. [Gr. aiμa(τ-), blood, + -γενής, -producing, + -in².] An iron-containing nuclein which may be obtained from the volk of hems' eggs. It is be obtained from the yolk of hens' eggs. supposed to be concerned in the production of hemoglobin.

hematogenous, a. 2. Relating to the forma-tion of blood; derived from blood.—Hemato-genous jaundice. See *jaundice.

hematoglobinuria, hematoglobinuria (hem'-a-tō-glō-bi-nū'ri-ä), n. [Gr. aiμa(τ-), blood, + E. globin + Gr. οὐρον, urine.] A more correct form of hemoglobinuria.

Hematoid cancer. Same as fungus hematodes. hematokrit, hæmatokrit, n. See *hemato-

hematolin, hematolin (hem-a-tō'lin), n. A dark-blue metallically lustrous compound, C₆₈H₇₈O₇N₈, obtained from hematin. See hematin, 1.

hematologist, hematologist (hem-a-tol'o-jist), n. [hematolog-y + -ist.] One who makes

a special study of the blood and of the changes

which occur in it in health and in disease. Lancet, June 25, 1904, p. 1790. hematolysis, hematolysis (hem-a-tol'i-sis), n. [Gr. $al\mu a(\tau)$, blood, $+\lambda i\sigma a$, dissolution.] The breaking down or dissolution of the red blood-corpuscles with decreased congulability of the blood; hemolysis.

hematolytic, hematolytic (hem'a-tō-lit'ik),
a. Of or pertaining to hematolysis; hemolytic. hematomania, hæmatomania (hem'a-tō-mā'ni- $\frac{1}{2}$), s. [Gr. $al\mu a(\tau)$, blood, + $\mu a\ddot{\nu}ia$, madness.] A craze for shedding blood.

The mania for murder which seized the Parisian populace in 1793 was a true pathological outburst. No sense of patriotism thrilled the crowds who ran by the tumbrils and surrounded the guillotines. It was Asmatomania, the blood-madness, that was upon them.

Brinton, Basis of Social Relations, p. 116.

hematomphalocele, hematomphalocele (hem-a-tom'fa-lō-sēl), n. [Gr. aiμa, blood, + ὁμφαλός, navel, + κήλη, tumor.] A blood-filled sac projecting at the umbilical opening. hematomyelia, hematomyelia (hem'a-tō-mī-ē'li-ā), n. [Gr. aiμa(τ-), blood, + μνελός, marrow.] Effusion of blood into the substance of the grinal gowd

the spinal cord.
hematomyelopore, hematomyelopore (hem'a-tō-mi'e-lō-pōr), n. [Gr. $ai\mu a$, blood, $+ \mu v \epsilon \lambda \delta \epsilon$, marrow, $+ \pi \delta \rho o \epsilon$, passage.] A cavity in the substance of the spinal cord remaining after the absorption of a blood-clot.

hematonephrosis, hamatonephrosis (hem'-a-tō-nō-frō'sis), n. [Gr. $ai\mu a(\tau)$ -, blood, + $\nu\epsilon\rho\delta$ c, kidney, +-osis.] Hemorrhage into the

a-to-ne-tro'sis), n. [Gr. aiμa(τ-), blood, + νεφρός, kidney, + -osis.] Hemorrhage into the pelvis of the kidney.

hematonic, hematonic (hem-a-ton'ik), a. and n. [Prop. hemo-; < Gr. aiμa, blood, + τόνος, tone, + -ic.] I. a. Tending to improve the quality of the blood.

II. A blood tonic

II. n. A blood-tonic.

Iron and arsenic are invaluable hæmatonics.

Med. Rec., July 11, 1908, p. 56.

hematopathology, hematopathology (hem'-a-tō-pa-thol'ō-ji), n. [Gr. alua(r-), blood, + E. pathology.] The science of the diseases affecting the constitution of the blood.

hematophagous, hematophagous (hem-a-tof'a-gus), a. [Gr. $ai\mu a(\tau)$, blood, $+\phi a\gamma \epsilon i\nu$, eat.]

1. Feeding on blood-corpuscles: said of the plasmodium of malaria and kindred diseases. -2. Feeding upon blood, as do some insects and the bats of the genus *Desmodus*.

hematophilic, hematophilic (hem'a-tō-fil'-ik), a. [Gr. $ai\mu a(\tau -)$, blood, $+ \phi i\lambda o_{\tau}$, loving, +-ic.] Same as hemophilic.

hematophyte, hematophyte (hem'a-tō-fit),
n. [Gr. aiµa(r-), blood, + φυτόν, plant.] A bacterial parasite in the blood.

hematoplania, hæmatoplania (hem'a-tō-plā'ni-ā), n. [Gr. aiμα(r-), blood, + πλάνη, wandering.] Discharge of blood from some unusual locality, as in vicarious menstruation. hematoplast, hæmatoplast (hem'a-tō-plast), n. [Gr. $ai\mu a(\tau$ -), blood, $+\pi\lambda a\sigma\tau\delta\varsigma$, formed.] Same as hematoblast.

hematoplastic, hæmatoplastic (hem a-tō-plas'tik), a. [hematoplast + -ic.] Same as *hematoblastic.

hematoporphyrin, hæmatoporphyrin (hem'a-tō-pôr'fi-rin), n. [Gr. $ai\mu a(\tau_-)$, blood, $+\pi op\phi i$, ρa , purple dye, $+-in^2$.] A purplish pigment obtained by treating hematin with concentrated sulphuric acid saturated with hydrobromic acid. the iron of the hematin being split off as the result. Hematoporphyrin is thus hematin minus iron. The substance is apparently related closely to a corresponding pigment which is derived from the chlorophylor plants and which is termed phylioporphyrin. Both are possibly different oxidation-products of one and the same mother-substance—a chemical evidence of the close genetic relationship between animal and plant life.

hematoporphyrinuria, hæmatoporphyrinuris (hem's-tō-pôr'fi-ri-nū'-ri-ā), n. [hematopor-phyrin + Gr. oʻpov, urine.] The presence of hematoporphyrin in the urine when voided. Lancet, April 18, 1903, p. 1097. hematoporphyroidin, hæmatoporphyroidin (hem's-tō-pôr-fi-rō'i-din), n. A decomposition-product of hematoporphyrin, described by

Nobel.

hematoscope, hamatoscope (hem'a-tō-skōp), n. [Gr. aiμα(r-), blood, + σκοπείν, view.] A form of spectroscope used in examining the spectrum of the blood.

hematoscopy, hæmatoscopy (hem-a-tos'ko-pi), n. [Gr. $ai\mu a(\tau)$, blood, + - $\sigma\kappa\sigma\pi ia$, < $\sigma\kappa\sigma\pi\epsilon i\nu$, view.] Examination of the blood by means of the hematospectroscope. Also hemoscopy.

hemoglobin in the blood.

hematotherapy, hematotherapy (hem'a-tō-ther'a-pi), n. [Gr. $ai\mu a(\tau)$, blood, + $\theta\epsilon\rho a\pi\epsilon ia$, nedical treatment.] Treatment of disease by

blood or some preparation from it. hematotoxic, hematotoxic (hem'a-tō-tok'-sik), a. [Gr. $ai\mu a(\tau)$ -, blood, $+\tau o\xi i\kappa(\delta v)$, poison.] 1. Relating to toxemia; causing blood-poisoning.—2. Same as *hematolytic.

hæmatotympanum hematotympanum, mematotympanum, hæmatotympanum (hem a-tō-tim pa-num), n. [Gr. aiμa(τ-), blood, + τίμπανου, drum: see tympanum.] An effusion of blood into the drum of the car. Phil. Med. Jour., Jan. 31, 1903, p. 200. hematoxic, hæmatoxic (hem-a-tok'sik), a. Same as *hematotxic.

hematozodn, hæmatozodn (hem'a-tō-zō'on), n.; pl. hematozoa, hæmatozoa (-ĕ). [Gr. aiµa(r-), h.; pl. nematozou, nematozou (a). [Gr. aiµa(τ -), blood, + $\zeta \bar{\omega} o v$, animal.] A blood-parasite, as the organism of malaria; a hematozoan. hematuresis, hæmaturesis (hem'a-tū-rē'sis), n. [Gr. aiµa(τ -), blood, + oipησις, urination.] Same as hematuria.

hemeranthous (hem-e-ran'thus), a. [Gr. nutpa, day, + avoir, bloom, + -ous. [In bot.:

(a) Opening only in sunlight: said of flowers.

(a) Opening only in sunlight: said of flowers.
(b) Bearing hemeranthous flowers: said of plants. Pound and Clements.
hemeranthy (hem-e-ran'thi), n. [Gr. ἡμέρα, day, + ἀνθείν, bloom, + -y³.] In bot., the character of being hemeranthous.
hemeristiid (hem-e-ris'ti-id), n. and a. I.
n. One of the Hemeristiidæ.
II. a. Having the characters of, or pertaining to, the Hemeristiidæ.

hemerobaptism (hem'e-rō-bap'tizm), n. [NL. hemerobaptista, < Gr. ήμερα, day, + βαπτιστής, baptist.] Daily baptism practised by certain baptist.] Daily baptism practised by certain Jewish and Christian sects. The Essenes (which see) practised daily baptism. The pious among the modern Hasidim still practise daily immersion before morning prayers, so as to pronounce the name of Jehovah in a state of purity. Some of the earlier Christians, including the Ebionites, adopted the same practice.

hemerobiid (hem'e-rō-bī'id), n. and a. I. n. A member of the neuropterous family Hemero-kiids

biidæ.

II. a. Of or belonging to the family Heme-

II. a. Of or belong...

robiidæ.

hemerology (hem-e-rol'ō-ji), n. [Gr. as if

"iμερολογία (ήμερολογίαν, α calendars, < ήμερο
λογείν, count by days, < ήμερα, day, + λόγος, a
count.] The knowledge of calendars; the art
of making calendars; a treatise on calendars.
No better idea can be formed of the number and variety
of the Babylonian feasts than by reading a hemerology of
the intercalary month of Elul, where we find that every

lev is dedicated to one or other of the gods, and certain

lev is dedicated to one or other of the gods, and certain

hemiaspis (hem-i-as'pis),
n. [NL., < Gr. ήμι-, half,

Hemiaspis (himuloides.

woodws. Silurian: Leint
Woodws. () (From Zil
Hemiaspididæ.

hemiataxia (hem'i-a-tak'
hemiataxia (hem'i-a-tak'
leis "Falzontology.")

si-ā), n. [NL., < Gr. ήμι-, half, + ἀταξία, dis-

hematosepsis, hæmatosepsis (hem'a-tō-sep'-hemerozoic (hem-e-rō-zō'ik), a. [Also erronesis), n. [Gr. aiμa(τ-), blood, + σῆψις, putrefaction.] Same as septicemia.
hematospectroscope, hæmatospectroscope (hem'a-tō-spek' trō-skōp), n. [Gr. aiμa(τ-), blood, + E. spectroscope.] A spectroscope hemerythrin, hæmerythrin (hem-e-rith'rin), blood, + E. spectroscope.] A spectroscope hemerythrin, hæmerythrin (hem-e-rith'rin), used to determine the presence and amount of hemcelobin in the blood.

hemerythrin, hæmerythrin (hem-e-rith'rin), n. [Gr. $ai\mu a$, blood, + $\epsilon \rho \nu \theta \rho \phi c$, red, + $-in^2$.] A red coloring-matter found in the corpuscles of the fluid in the body-cavity of gephyreaus, probably having a respiratory function like the hemoglobin of other animals. Also hemæry-

hemiachromatopsia (hem "i-a-krō-ma-top'-

hemiachromatopsia (hem 'i-a-krō-ma-top'-si-\(\text{si}\), n. [Gr. \(\eta\mu_{i-}\), half, + \(\chi\rho\text{\text{\$\text{\$\sigma}\$}}(\au\), color, + \(\delta\eta\vert_{i}\), view.] Partial or complete color-blindness involving one half of the field of vision. \(Encyc. Brit., XXXI. 569.\)
hemialbumin (hem'i-al-bū'min), n. [hemi-+albumin.] A hypothetical albuminous substance containing only the hemicomplex of K\(\text{thne}\), namely, that complex which is readily digested by trypsin and is ultimately converted into leaving and typosis and related saids

Same as hematuria.

hemautogram, hæmautogram (hem-â'tō-gram), n. [Gr. aiμa, blood, + aiντός, self, + γράμμα, writing.] Same as *hemautograph.
hemautograph, hæmautograph (hem-â'tō-graf), n. [Gr. aiμa, blood, + aiντός, self, + γράμειν, write.] A tracing made by blood spurting from a punctured artery, used to register the blood-pressure.

hemautographic, hæmautographic (hem'â-tō-graf'ik), a. Of or pertaining to hemautographic, hæmautographic to hemautographic as, a hemautographic pulse curve.

hemautograph: as, a hemautographic pulse curve.

hemiantogram, hæmautographic hæmautographic pulse curve.

hemiantogram, hæmautograph (hem-â'tō-graf'ik), a. Of or pertaining to hemautographic hemautographic pulse curve.

hemiantogram, hæmautograph (hem-â'tō-graf'ik), a. Of or pertaining to hemautographic pulse curve.

hemiantograph (hem-î-a-nat'rō-pus), a. Half-anatropous. Gray.

Hemiancistrus (hem'i-an-sis'trus), n. [NL.,

the sea-bass.

Hemiascales (hem"i-as-kā'lēz), n. pl. [NL., < Gr. ἡμι-, half, + ἀσκός, a bag (see ascus, 1), + -alcs.] An order containing what are regarded as the lowest forms of ascomycetous fungi. They produce a many-celled mycelium and bear sporangia (asci) which contain a large and indefinite number of spores. Also called Hemiascinese and Hemiasci.

Hemiasci (hem-i-as'sī), n. pl. [NL., ⟨Gr. ἡμι-, half, + ἀσκός, a bag (see ascus, 1).] Same as *Hemiascales.

Hemiascineæ (hem 'i-a-sin'ē-ē), n. pl.[NL.] Same as *Hemiascales.

hemiaspidid (hem-i-as'pi-did), n. One of the Hemiaspididæ

Hemiaspididæ (hem'i-as-pid'i-dė), n. pl. [NL., Hemiaspis(-aspid-)+-idæ.] A family of fossil merostoof 7 matous crustaceans of primitive character, typi-fied by *Hemiaspis*, which has a short cephalothorax, nine thoracic segments, and a long tail-spine. members of the family are from the Silurian rocks.

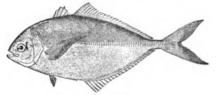
Hemibasidieæ.

hemibenthic (hem-i-ben'thik), a. [hemi-benthic.] Incompletely benthic; floating or swimming in the water at one time or at one stage of development and living upon or in stage of development and living upon or in the bottom at another time or stage. Most hydroids, which are sessile and give rise to swimming meduses, and most echinoderms, which swim in their larval condition and creep over the bottom when adult, are hemibenthic. Also hemibenthonic. See *benthic, pelagic, *planktonic.

In the neritic epiplankton of polar waters the larve of hemibenthic forms are almost absent; indeed, the development of cold-water benthos, whether shallow or abyssal, appears to be in most cases direct, that is, without a larval metamorphosis.

Encyc. Brit., XXXIII. 936.

Hemicaranx (hem-i-kar'anks), n. [NL., \langle Gr. $\dot{\eta}\mu\nu$, half, + NL. Caranx.] A genus of pom-



hemautography or the hemautography (hem-ātogʻra-fi), n. [As hemautography (hem-ātamily Loricariidæ.

hemera (hem 'e-rā), n.; pl. hemeræ (-rē). [Gr.

hemera (hem 'e-rā), n.; pl. hemeræ (-rē). [Gr.

hemera (hem 'e-rā), n.; pl. hemeræ (-rē). [Gr.

hemianopia (hem 'i-a-nō' pi-ā), n. [NL., ⟨Gr.

hemianopia (hem 'i-a-nō' pik), a. Same as

shemianopia. J. Loeb, Comp Physiol. of

hemeralope (hem 'e-ra-lōp), n. [A back-forhemeralope (hem 'e-ra-lōp), n. [A back-forhemeralopia.] One who is suffer
hemianopia.

Hemianopia (hem 'i-a-nō' pik), a. Same as

shemianopia.

hemianopia.

Hemianopia (hem 'i-a-nō' pik), a.

shemianopia (hem 'i-a-nō' pik), a. Same as

shemianopia.

Hemianopia (hem 'i-a-nō' pik), a.

hemianopia (hem 'i-a-nō' pik), a. Same as

shemianopia.

Hemianopia (hem 'i-a-nō' pik), a.

hemianopia (hem 'i-a-nō' pik), a. Same as

shemianopia.

Hemianopia (hem 'i-a-nō' pik), a.

hemicanopia (hem-i-sel'a-lus), a. [Gr. ħμωhalf, + κφωλή, head, + -ous.] Laeking one side

of the head: as, a hemicephalous (hem-i-sel'a-lus), a.

hemianopia (hem-i-sel'a-lus), a. [Gr. ħμωhalf, + κφωλή, head, + -ous.] Laeking one side

of the head: as, a hemicephalous (hem-i-sel'a-lus), a.

hemianopia.

hemianopia.

Hemianopia (hem'i-a-n̄)-kar'pik), a.

hemicanopia (hem-i-sel'a-lus), a. [Gr. ħμωhalf, + κφωλή, head, + -ous.] Laeking one side

of the head: as, a hemicanopia (hem-i-sel'a-lus), a. [Gr. ħμωhalf, + χφωλή, string, cord.] A group of

worm-like marine animals considered to be related to the Chordata, owing to their possession

of gill-sits, a partly dorsal nervous system,

and rudimentary notochord. It includes the

-then regarded as a class of gill-slits, a partly dorsal nervous system, and a rudimentary notochord. It includes the genera Balanoglossus, Cephalodiscus, and Rhabdopleura. The name was introduced in 1884, by Bateson, as a phyletic name for the Enteropneusta, then regarded as a class and containing only the genus Balanoglossus.

Hemicidaridæ (hem*i-si-dar'i-dē), n. pl. [NL., \(\text{Hemicidaris (-arid-) + -idæ.} \] A family of fossil sea-urchins, or Echinoidea, having very large spine-tubercles decreasing in size toward the poles, ambulacra increasing in width actinally, and few interambulacral plates. Its species occur in the Permian, Jurassic, and Cretaceous rocks.

Hemicidaris (hem-i-sid'a-ris), n. [NL., ⟨Gr. ημι., half, + NL. Cidaris, a genus of sea-urchins.] The typical genus of the Hemicidaridæ. hemiclastic (hem-i-klas'tik), a. [Gr. ημι., half, + κλαστός, broken.] Half clastic: in petrog., applied by Senft to volcanic tuffs and conølomerates.

hemiclistogamous (hem'i-klis-tog'a-mus), a. [hemi-+ clistogamous.] Opening only par-tially, hence not easily cross-fertilized: said Hemiclistogamous flowers are either chasmantherous or clistantherous. Pound and Clements, Plant Life of Nebraska.

hemicollin (hem-i-kol'in), n. [Gr. $\dot{\eta}\mu$ -, half, $+ \kappa \partial \lambda a$, glue, $+ \cdot i n^2$.] A vitreous compound, $C_{47}H_{70}O_{19}N_{14}$, formed, together with semiglutin, by boiling glue for thirty hours with water.

hemicomplex (hem-i-kom'pleks), n. Same as hemigroup (in the sense of Kühne). hemicrescentic (hem'i-kre-sen'tik), a. Having the shape of half a crescent: applied to the form of the bill in some birds.

to hornblendic varieties of the rock.

hemiepiphyte (hem-i-ep'i-fit), n. See *epi-

hemifacial (hem-i-fā'shal), a. [hemi- + L. facies, face, +-al¹.] Of or relating to one side of the face.

hemiglossitis (hem'i-glo-si'tis), n. [NL., < Gr. ήμ., half, + γλῶσσα, tongue, + -itis.] Inflammation of one lateral half of the tongue.

mation of one lateral half of the tongue.

hemigroup (hem'i-gröp), n. [hemi-+ group.]

Literally, a half-group. The terms hemigroup and antigroup, in reference to the constitution of albumins, were originally introduced by Kühne. According to his doctrine, two large complexes exist in most albumins, which are separated during the process of digestion. Of these the hemicomplex is readily hydrolyzed by trypsin, while the anticomplex is quite resistant. In the former the monoamido acids prevail, in the latter the diamido acids. Protoalbumose may be regarded as representing the hemigroup, and heteroalbumose the antigroup. Collagen apparently contains no hemigroup, while casein is a pure hemibody. Kühne's original view is still upheld, but it is now recognized that the majority of albumins contain a third large complex, in which the carbohydrate group is represented.

A. 3. In the relation of so-called

third large complex, ... represented.

hemihedral, a. 3. In the relation of hemihedral crystals to crystal symmetry, see *symmetry.

hemiheterocercal (hem-i-het'e-rō-ser'kal), a.

[hemi-+ heterocercal.] In fishes, having the upper lobe of the externally symmetrical caudal fin partly or completely covered with scales.

hemiheterocercy (hem-i-het'e-rō-ser'si), n.

[hemi-+ heterocercy.] A condition denoted by the existence of a hemiheterocercal tail, as in fishes.

[hemi-+ heterocercy.] A condition denoted by the existence of a hemiheterocercal tail, as in fishes.

[hemi-+ hy
[hemi-- holes, marriage.]]

[hemi-- holes, marriage.]

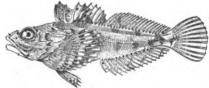
[hemi-- holes, half, half water in the proportion of half a molecule for one molecule of another substance, as a salt. Thus calcium sulphate as thrown down in the crystalline state from the water in steam-boilers has the composition CaSO₄, H₂O—more correctly represented as (CaSO₄)₂. H₃O—more correctly represented as (CaSO₄)₂. H₃O—more absenced by the composition CaSO₄, H₂O—more correctly represented as (CaSO₄)₂. H₃O—more correctly represented as (CaSO₄)₂. hemihyperæsthesia (hem'i-hī'per-es-thē'sia), n. [hemi- + hyperæsthesia.] Increased sensitiveness limited to one side of the body. hemihypertrophy (hem'i-hī-per'trō-fi), n. [hemi- + hypertrophy.] Hypertrophy of one half: as, facial hemihypertrophy.
hemi-idealism (hem'i-i-de'a-lizm), n. The doctrine that secondary qualities are relative to cognition, while primary qualities are independent of it.

pendent of it. **Hemilepidotinæ** (hem'i-lep'i-dō-tī'nē), n. pl.

[NL., { Hemilepidotus + -inæ.] A subfamily of sculpins, or Cotidæ, typified by the genus

Hemilepidotus.

Hemilepidotus (hem-i-lep-i-dō'tus), n. [NL., \langle Gr. $\hbar\mu$ -, half, + $\lambda\epsilon\pi\iota\delta\omega\tau\delta\varsigma$, scaled, scaly, \langle $\lambda\epsilon\pi\iota\dot{\varsigma}$, scale.] A genus of sculpins of the North Pacific, characterized by the presence of two



Hemilepidotus hemilepidotus. (From Bulletin 47, U. S. Nat. Museum.)

rows of scales along the side separated by a naked area. The species are known in Bering Sea as Irish lords. H. hemilepidotus and H. jordans are both common. The former is distinguished by its spotted ventral fins.

ventral mas.

hemilogous (he-mil'ō-gus), a. [hemi- + (ana)-logous.] In chem., a term which has been suggested for series of organic compounds the terms of which differ by nCH.

hemilytic (hem-i-lit'ik), a. [hemi- + (dia)-lytic.] Noting a stage or condition in which conditions we recorded by introduced the interest of the conditions of

hemicrystalline (hem-i-kris'ta-lin), a. [Gr. hemimellitic (hem'i-me-lit'ik), a. [hemi-+ ημι-, half, + κρυστάλλινος, crystalline.] Same as *hypocrystalline.
hemicyclone (hem-i-sī'klōn), n. [hemi-+ cy-clone.] In meteor., the upper or lower half of the ideal theoretical cyclonic system, the dividing plane being supposed to be horizontal.
hemidiorite (hem-i-dī'ō-rīt), n. [Gr. ημι-, half, + Ε. diorite.] A name given by Dana (1883) to mica-diorite in order to limit the name diorite to hornblendic varieties of the rock.

hemimeridæ (hem-i-mer'i-dē), n. pl. [NL., < Hemimeridæ (hem-i-mer'i-dē), n. pl. [Nc., < Hemimeridæ (hemimeridæ (hemim

hemimetabolous (hem'i-me-tab'ō-lus), a. [hemi- + metabolous.] Undergoing partial metamorphosis, as one of the Hemimetabola. Hemimorphic classes of crystals. See *sym-

mery.

hemimorphous (hem-i-môr'fus), a. [Gr. ημι-, half, + μορφή, form, + -ous.] Same as hemimorphic. Nature, Sept. 24. 1903, p. 520.

hemimorphy (hem'i-môr-fi), n. [hemimorph-ic + y³.] Same as hemimorphism.

hemin, hæmin (hem'in), n. [Gr. aiµa, blood, + -in².] A crystalline substance which may be obtained from hematin on treating it with H₃₃N₄O₄FeCl. The crystals are quite characteristic in appearance, and their formation has for many years represented one of the most important tests for blood-coloring matter. See *Teichmann's *crystals.*—Hemin test. See *test1.

ancient flute with but few holes.

hemiparabola (hem'i-pa-rab'ō-lä), n. [hemi+ parabola.] That part of a parabola which
lies on one side of the axis.
hemiparæsthesia (hem-i-par-es-thē'si-ä), n.
[hemi-+paræsthesia.] Perverted sensation on
one side of the body, right or left.
hemiparalysis (hem'i-pa-ral'i-sis), n. [hemi+ paralysis.] Same as hemiplegia.
hemiparasite (hem-i-par'a-sīt), n. [hemiparasite.] A partially parasitic plant.
Like hemisaprophytes, hemiparasites, which obtain

Like hemisaprophytes, hemiparasites, which obtain only a portion of their necessary carbon in an organic form, more or less resemble autotrophic plants as regards the amount of chlorophyll they contain and as regards the form of their leaves.

A. F. W. Schimper (trans.), Plant-Geog., p. 203,

hemiparasitic (hem'i-par-a-sit'ik), a. Pertaining to or having the character of a hemipara-

The degree of connexion between the two and the dependence of the parasite upon the host vary between the completeness of that of holoparasitic Rhizantha, in which little more than the flower of the parasitie is visible upon the outside of the stem of the host and the parasitism is absolute, and the limitation of that of the hemiparasitic Rhinanthese, in which to all appearance there is an independent autotrophic geophyte. Encyc. Brit., XXV. 438.

pendent autotropine geophyte. Encyc. Brit., ΔN . 388. hemipelic (hem-i-pel'ik), a. [Gr. $\hbar\mu$ -, half, $+\pi\eta\lambda\delta\varsigma$, clay, +-ic.] Of a medium fine clayey consistency. See *pelogenous. hemipenis (hem-i-pē'nis), n.; pl. hemipenes (-nēz). [NL., hemi-+penis.] One of the two intromittent organs of snakes.

Like the Sauria the Serpentes possess two intromittent organs or hemipenes.

Cope, Rept. U. S. Nat. Mus., 1898, p. 700. Cope. Rept. U. S. Nat. Mua, 1898, p. 700. hemion. The former is distinguished by its spotted ventral fine.

hemilogous (he-mil'ō-gus), a. [hemi- + (ana)-logous.] In chem., a term which has been suggested for series of organic compounds the terms of which differ by nCH.

hemilytic (hem-i-lit'ik), a. [hemi- + (dia)-logous.] Noting a stage or condition in which evolutionary progress is retarded by inbreeding and close selection which eliminates the normal individual diversity of the natural species, as in carefully selected domesticated varieties. Compare *catalytic, 2, *dialytic, 4, and *prostholytic. O. F. Cook.

hemilogous (he-mi-pep'tōn), n. [hemi-peptone.] A hypothetical peptone containing those groups of the albuminous molecule which can be readily liberated on tryptic digestion. According to Kühne's doctrine, gastric digestion leads to the formation of an amphopeptone in which hemipeptone and anti-group are at once separated, the former giving rise to leucin and tyrosin, etc. hemiphonon (hem-i-fō'non), n.; pl. hemi-phona (-nā). [NL., < Gr. ἡμίφωνος, a semi-phona (-nā). [NL., < Gr. ἡμίφωνος, 'half pronounced,' < ἡμι-, half, + φωνή, sound.] In phonol., a semivowel.

[hemi-+ hemipic (he-mip'ik), a. [hemi-+ (o)p(ium)(†)] cless com-+-ic.] Same as *hemipinc. hemipinic (hem-i-pin'ik), a. [hemi-+ (o)-pium) + -in + -ic.] Noting an acid, a colorless compound, $(C\dot{H}_3O)_2C_6H_2(CO\dot{O}H)_2$, formed, together with opianic acid and meconin, by the oxidation of narcotin and narceine. It crystallizes with water of crystallization in quadratic plates, melts at 182° C., and readily

meridæ.

Hemimeridæ (hem-i-mer'i-dē), n. pl. [NL., < forms an anhydrid.

Hemimerus + ·idæ.] A remarkable family of hemiplane (hem'i-plān), n. [hemi- + plane¹.]

blind wingless Orthoptera inhabiting Africa and comprising the single genus Hemimerus. The development is intra-uterine. H. hansen lives on the body of a large rat. A distinct order, Diploglossata, was erected by Saussure for these insects, but has not been accepted.

hemimetabolous (hem'i-me-tab'ō-lus), a.

covering periods, and is thus not wholly indecertain periods, and is thus not wholly independent of the soil, as the typical plankton is. Some macrophytes (*Hydrocharis*, etc.) are included with the microphytes.

hemiplanktonic (hem-i-plangk-ton'ik), a. Of

nemiplemetonic (hem-i-plangk-ton'ik), a. Of or pertaining to hemiplankton. hemiplegia, n.—Alternate hemiplegia, paralysis of the face on one side and of the extremities on the other, or of an arm and a leg on opposite sides.—Crossed hemiplegia. Same as alternate **hemiplegia.—Hephestic hemiplegia. Same as hammer.**palsy.—Spinal hemiplegia, hemiparaplegia due to lesion of the spinal cord.

hemiplegiac (hem-i-plē'ji-ak), a. and n. I. a.

Nemiplegiac (hem-i-ple'ji-ak), a. and n. 1. a. Same as hemiplegic.

II. n. One who is suffering from hemiplegis.

Hemipristis (hem-i-pris'tis), n. [NL., \langle Gr. $\eta\mu$ -, half, $+\pi\rho i\sigma\tau\iota\varsigma$, a large fish.] A genus of selachian fishes or sharks of the family Carcharidæ. They have the principal teeth large and serrated, and the lower ones slender, incurved, and smooth on the edge. The genus is common in the Miocene and Oligocene Tertiary, and is represented by one living species.

Oligocene Tertary, and is represented by one ning species.

hemiprotein (hem-i-prō'tē-in), n. [hemi-+protein.] Same as *hemialbumin.
hemipsammic (hem-ip-sam'ik), a. [Gr. ήμ-, half, + ψαμμός, sand, + -ic.] Of a medium fine sandy texture. See *psammogenous.
hemipteroid (hē-mip'te-roid), a. and n. [Hemiptera + -oid.] I. a. Having the characters of the Hemiptera or Hemipteroidea.

II. n. One of the Hemipteroidea.
Hemipteroidea (hē-mip-te-roi'dē-š), n. pl. [NL., < Hemiptera + -oidea.] In Scudder's classification of the Paleozoic insects, an order constructed on the same plan as the living Hemiptera, but distinguished in name because of their more primitive expression.

Hemiptera, but distinguished in name because of their more primitive expression.

hemipterygoid (hem-ip-ter'i-goid), n. A small bone resting upon and fusing with the posteroventral part of the palatine, with which the pterygoid articulates.

Hemipuccinia (hem'i-puk-sin'i-\(\frac{a}{2}\)), n. [NL., \(\lambda\) hemi-+ Puccinia.] A group of species of the genus Puccinia in which only uredospores and teleutospores are known. Schröter.

Hemiramphidæ(hem-i-ram'fi-dē), n.pl. [Nl., \(\lambda\) Hemiramphidæ(hem-i-ram'fi-dē), n.pl. [Nl., \(\lambda\) the great elongation of the lower jaw, the upper jaw being

tion of the lower jaw, the upper jaw being



From Bulletin 47, U. S. Nat. Museum.) very short. The species are known as half-beaks and are found in the tropical seas. The typical genus is Hemiramphus.

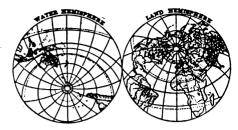
typical genus is Hemiramphus.
hemisaprophyte (hem-i-sap'rō-fīt), n. [hemi+ saprophyte.] A partially saprophytic plant.
See the quotation under *hemiparasite and
compare *holoparasite.
hemisomnambulism (hem'i-som-nam'būlizm), n. In mental pathol., a partial somnambulism; a state in which the subject, while

normally conscious and retaining his normal personality, shows certain somnambulistic symptoms (as writing automatically).

As to the persistency of the normal consciousness, while these automatic phenomena are being accomplished, it is the most curious and most discussed characteristic of hemicomnumbulism.

P. Janet (trans.), Mental State of Hystericals, p. 423. hemisphere, n.— Biot's hemispheres, an apparatus used to demonstrate that a charge of static electricity is distributed on the surface. It consists of a polished brass globe on an insulated stand, and of two hollow hemispheres of lacquered brass with insulating handles. If the globe is charged and is then incased by the lienispheres, the latter on being removed take the charge with them on their outer surfaces.— Hemisphere of illumination, that half of a planet's or satellite's surface upon which the sun is shining.—Hemisphere of vision, the hemisphere which an observer sees.—Land hemisphere, in phys. geog., that half of the earth's sur-

hemisphere



face which is chosen so as to include the greatest possible area of land. The pole of the land hemisphere lies in southeastern England or northwestern France.—Vegetative hemisphere, that half or portion of the egg which contains the food-yolk, as distinguished from the animal hemisphere, which consists of the more active protoplasm and nuclear elements.—Water hemisphere, that half of the earth's surface which contains the greatest area of water.

area of water.

Remispheric anomaly, the departure of a local temperature from the corresponding hemispheric normal for the given latitude: the anomaly of Dove (1846).

hemistater (hemi-istā'ter), n. [Gr. ἡμωτάτηρον, ⟨ ἡμι-, half, + στατήρ, stater.] An ancient Greek coin of the value of half a stater.

(ημι-, half, + στατήρ, stater.] An ancient Greek coin of the value of half a stater.

hemisternum (hem-i-ster'num), n.; pl. hemisternum (hem-i-s See *symmetry.

hemisymmetrical, a. Same as hemisymmetric. hemisymmetry, n. 2. In biol., bilateral symmetry; the construction of the body of an organism in such a way that one half is a reversed copy of the other.

hemisystematic (hem 'i-sis-te-mat'ik), a. Hemisymmetric.

hemitery (hem'i-ter-i), n. [Gr. $\eta\mu\iota$, half, + $\tau\epsilon\rho\alpha$, monster, + $\cdot y^3$.] Congenital malformation which is not sufficient in degree to

tion which is not sufficient in degree to amount to monstrosity. **Hemitomes** (he-mit'ō-mēz), n. [NL. (Gray, 1857), Gr. ημπόμης, a half-eunuch (in allusion to the atrophy of one of the anther cells); or a mistaken form for *Hemitomias, (Gr. ημπομίας, helds a form for *Gr. ημπομίας, helds a form for *Hemitomias, (Gr. ημπομίας, helds a form for *Hemitomias, helds a form for *Hemit half a eunuch. Cf. ἡμίτομος, half cut through,

of decotyledonous plants belonging to the family Monotropaces. See Newberrya.

Hemitripterinse (hem'i-trip-te-ri'nē), n. pl. [NL., < Hemitripterus + -ins.] A subfamily of gadoid fishes characterized by the manyrayed spinous dorsal fin, which is developed into two fins, and by the rough surface of the body. The typical genus is Hemitripterus.

hemitropism (hē-mit'rō-pizm), n. [hemitrop-ic + -ism.] The crystallization characteristic of ordinary twin exystals in which one helf of

ordinary twin crystals, in which one half of the compound crystal has a position relatively to the other half as if it had been revolved

to the other half as if it had been revolved through 180°. Also hemitropy.

Hemitrypa (hem-i-tri'pā), n. [NL., \langle Gr. $\dot{\eta}\mu$ -, half, $+\tau\rho\bar{\nu}\pi a$, a hole.] A genus of fossil Bryozoa, of the family Fenestellidæ. It differs from Fenestella in having a reticulate superstructure corresponding in position with the apertures of the mesh on the lower side. This structure rests on pillars which rise at regular intervals from the carins of the branches. The genus occurs in Silurian and Devonian rocks. hemivertebra (hem-i-ver'tē-brā), n.; pl. hemivertebræ (-brē). [hemi- vertebra.] One of the vertebræ, in fishes, in which ossification develops below the notochord a hippocrepian plate to which the hemal arches in the caudal

plate to which the hemal arches in the caudal region are attached. The vertebral centrum is represented by a pair of lateral plates which are usually fused into a second hippocrepian half-ring, the vertebree thus consisting of two half-rings.

Hemizonia (hem-i-zō'ni-ā), n. [NL. (De Candolle, 1836), < Gr. ήμι-, half, + ζώνη, girdle. Each ray achenium is half inclosed by an involucral bract.] A genus of plants of the family Asteraceæ. They are erect branching annuals, viscid-glandular and ill-scented, with narrow alternate

leaves and yellow or white ray-flowers. There are about 12 species, natives of western North America. Like the species of the closely related genus Madia, they are commonly called tar-weed.

hemlock, n.— Creeping hemlock. Same as ground-hemlock.— Western hemlock bark-borer. See *bark-borer.— Hemlock bark extract. See *extract. hemming-machine (hem'ing-ma-shen'), n. In sheet-metal work, a machine for folding over

the edges of narrow strips of sheet-metal used in making the handles for cans and other tin-

hemoagglutinin, hæmoagglutinin (hem'ō-a-glö'ti-nin), n. [Gr.aiµa, blood, + E. agglutinin.] An agglutinin which will cause the agglutination of red blood-corpuscles.

hemochromatosis, hæmochromatosis (hem-ō-krō-ma-tō'sis), n. [Gr. aiμa, blood, + χρῶμα(τ-), color, -- -osis.] A condition, asso-ciated with extensive blood-destruction, in which a deposition of hematogenous pigment occurs in the liver and other organs. The pigment usually found is hemosiderin.

There was a profound hamochromatosis, consisting mainly in the deposition of iron-free pigment granules in the intestinal mucosa, the liver, the blood, the lymph channels, and in the renal epithelium.

Jour. Exper. Med., March 17, 1902, p. 252.

hemochrome, hæmochrome (hem'ō-krōm), π.
[Gr. aiμa, blood, + χρώμα, color.] The coloring-matter of the blood.

fluids by a comparison with standard solu-tions; a hemoglobinometer. nemocole, n. 2. A system of blood-sinuses

hemocole, n. 2. A system of blood-sinuses formed by the enlargement and union of bloodvessels

[The] blood-vessels have swollen and united to form an extensive series of blood-sinuses, to which I have given the name "hæmocæli."

E. R. Lankester, Nat. Sci., April, 1897, p. 268.

hemocælic, hæmocælic (hem" - ō - sē ' lik), a.

[hemocæle + -ic.] Of or pertaining to a hemocælic celes.

With regard to the development of the vascular system, little can be said here, except that it appears to arise in all cases from the spaces of the mesoblastic reticulum. These acquire special epithelial walls, and form the main trunks and network of smaller vessels found in animals with a canalicular vascular system, or the large sinus-like spaces characteristic of animals with a harmocolic body-cavity.

half a cunuch. Cf. ημίτομος, hair cut inrougu, ⟨ ημι-, half, + -τομος, ⟨ ταμείν, cut.] A genus of dicotyledonous plants belonging to the family Monotropaceæ. See Newberrya.

Hamitrinterinæ (hem'i-trip-te-ri'nē), n. pl.

Karve. Brit., XXVIII. 190.

hemocœloma, hæmocœloma (hem'ō-sē-lō'-mš), n. [NL.; also erroneously hema-, hæma-cæloma, ⟨ Gr. alμa, blood, + κοίλωμα, a hollow la militrinterinæ). In embruol., the portion of the (see caloma).] In embryol., the portion of the true body-cavity, or coloma, which in the mammalian embryo is constricted off to form the cavity of the heart.

hemoconion, hæmoconion (hem-ō-kō'ni-on), n.; pl. hemo-, hæmoconia (-ā). [Also hemokonion; NL. hæmoconion, < Gr. aiμa, blood, + κόνις, dust.] One of certain minute granules which occur free in the blood-plasma and are

supposedly derived from leucocytes. Also called dust-particles of Müller.

hemoconiosis, hemoconiosis (hem-ō-kō-ni-ō'-sis), n. [hemoconi(on) + -osis.] A condition in which there is an unusual amount of blood-dust in freshly drawn blood.

hemocrystallin, hæmocrystallin (hem - ō - kris'ta-lin), n. Same as hematocrystallin. hemocyte, hæmocyte (hem'ō-sīt), n. Same

*hematocyte. hemocytolysis, hamocytolysis (hem 'ō-sī-tol'i-sis), n. [hemocyte + Gr. λύσις, dissolution.] A breaking down or dissolution of the blood-

corpuscles. hemocytometer, hæmocytometer (hem ō-sī-tom e-ter), n. Same as *hematocytometer. Na-ture, Feb. 26, 1903, p. 388.

hemodynamics, hemodynamics (hem'ō-dī-nam'iks), n. [Gr. aiµa, blood, + E. dynamics.] A more correct form of hemodynamics (which see).

hemodynamometer, hæmodynamometer (hem-ō-dī-nṣ-mom'e-tèr), n. [Gr. aiµa, blood,

+ E. dynamometer.] A more correct form of hemadynamometer (which see).

hemoferrum, hæmoferrum (hem-ō-fer'um), n. [Gr. aiµa, blood, + L. ferrum, iron.] A dry organic compound of iron made from ox-blood

organic compound of from made from ox-blood and consisting principally of oxyhemoglobin. hemofuscin, hemofuscin (hem-ō-fus'in), n.

[Gr. aiµa, blood + L. fuscus, fuscous, + ·in².]

A pigment, derived from hemoglobin, which is free from iron. Its formation is often associated with degenerative changes, as in atrophy of the heart and unstriped muscle-tissue.

hemogallol, hemogallol (hem- $\bar{\phi}$ -gal' $\bar{\phi}$ l), n. [Gr. $ai\mu a$, blood, + $gall(ic)^2 + -ol.$] A reduction-product of hemoglobin which contains It is a reddish-brown powder used as a hematogenous tonic.

hemogenesis, hæmogenesis (hem-ō-jen'e-sis), n. [Gr. αἰμα, blood, + γένεσις, generation.] Same as hematogenesis.

hemoglobinated, hæmoglobinated (hem-ē-glō'bi-nā-ted), a. [hemoglobin + -ate¹ + -ed².] Containing or tinctured with hemoglobin. Buck, Med. Handbook, II. 21.

hemoglobinometer, n.—Gower's hemoglobinometer, an apparatus for determining the percentage of hemoglobin in blood. A small drop of blood (20 cubic millimeters) is diluted with water to measure 2 cubic centimeters. The color of this solution is then compared with a standard color produced by dissolving picrocarmine in elverin.

hemoglobinous, hæmoglobinous (hem-ō-glō'bi-nus), a. [hemoglobin + -ous.] Containing or tinged by hemoglobin, as the nervous system of heteronemertines.

The hæmoglobinous nerve tissue is thus brought close to the surrounding medium.

E. R. Lankester, Treatise on Zoology, IV. 186.

hemoglobinuric, demoglobinuric (hem-ō-glō-bi-nū'rik), a. hemoglobinuria. Hemoglobinuric fever. Same

hemogregarian, hæmogregarian (hem'ō-grēgā ri-an), n. [Hemogregar(ina) + -ian.] A hemogregarine; any member of the family Hæmogregarinidæ. Nature, Aug. 11, 1904, p.

hemogregarine, hæmogregarine (hem-ō-greg'a-rin), n. [Gr. alua, blood, + E. gregarine.] The trophozoite stage of some Hæmosporidia, the organism having a fixed body-form and, though motile, not being

amœboid like a hemamœba.

hemoid, hæmoid (he moid), a. [Gr. αἰμοειδής, ⟨αἰμα, blood, + ειδος, form.] Having the appearance of blood.

hemokonia, hæmokonia, n. pl. See*hemoconion. hemol, hæmol (hē'mol), n. [Gr. aiµa, blood, + ol.] A reduction-product of hemoglobin which contains iron. It is used as a hematowhich contains iron. It is used as a hematogenous tonic.— Copper hemol, a dark-brown powder consisting of a copper compound of hemol. It contains 2 per cent. of copper, and is used in tuberculosis, scrofula, etc. Also called cuprohemol.— Hemol mercuric iodiae, a hemol compound said to contain 13 per cent. of mercury and 28 per cent. of iodine; hydrargyri-lodo-hemol: used in syphilis.— Zinc hemol, a zinc compound of hemol containing 1 per cent. of zinc: antidiarrheic and hematinic.

hemolin (hem'ō-lin), n. [Gr. aiμa, blood, + -in2.] A trade-name for a solution of the coloring-matter of logwood used in dye-ingleather. Flemming, Practical Tanning,

hemolutein, hemolutein (hem-ō-lū'tō-in), n. [Gr. aiµa, blood, + L. luteus, muddy, + -in².] A yellow lipochromic pigment which is found in the blood-serum of some animals. hemolymph, n. 2. The blood and the lymph

considered together.

In the second case (advanced cirrhosis) the lymphoid tissue presented the characteristics of hyperplastic hæmolymph nodes. Med. Record, May 30, 1903, p. 870.

Hemolymph glands or nodes. See *gland.
hemolymphocytotoxin, hæmolymphocytotoxin (hem-ō-lim'fō-si-tō-tok'sin), n. A toxin which acts upon the blood- and lymphcorpuscles.

emolysin, hæmolysin (he-mol'i-sin), n. [hemolysis + -in².] A cellular product, having the character of an amboceptor, which hemolysin, l causes the dissolution of the red corpuscles of the blood in the presence of a suitable complement. Certain hemolysins can be classed as cyto-toxins. These result on immunization of one animal with the blood-corpuscles of an animal of an alien species. Also called hemoloxin.

hemolysis, hæmolysis (he-mol'i-sis), n. [Gr. aiμa, blood. + λίσα, dissolution.] The process of dissolution of the blood-corpuscles (notably the red cells) by means of specific lysins (hemolysins). Also hematolysis. An investigation of the effect of antitoxines (salts, proteids, normal serum, antitetanolysin, etc.) on the power of toxines (ammonia, alkalies, tetanolysin) to produce hæmolysis of blood corpuscles, and an attempt to explain the results on the basis of the mass law.

Jour. Phys. Chem., May, 1904, p. 366.

hemolytically, hemolytically (hem-ō-lit'i-kal-i), adv. In reference to hemolysis; by

hemolysis.
hemolyzable, hæmolyzable (hem'ō-lī-za-bl),
a. [hemolyze, -able.] Capable of undergoing hemolysis.
hemolyze, hæmolyze (hem'ō-līz), v. t.; pret.
and pp. hemo-, hæmolyzed, ppr. hemo-, hæmolyzing. [Also hemolysis.]
To bring about hemolysisin.

The blood of animals also is hæmolysed by foreign sera—the red corpuscles of the rabbit, for example, being dissolved readily by dog's serum.

*Jour. Exper. Med., March 17, 1902, p. 280.

hemomediastinum, hæmomediastinum (hem'ō-mē'di-as-tī'num). n. [Gr. aiµa, blood, + NL. mediastinum.] Effusion of blood into the mediastinum.

2. Same as hemoglobinomhemometer, n.

hemopathology, hæmopathology (hem'ō-pathol'ō-ji), n. [Gr. aiµa, blood, + E. pathology.] The science of the diseases of the blood.

hemoperitoneum, hæmoperitoneum (hem-oper'i-tō-nē'um), n. [Gr. aiμa, blood, + περι-τόναιον, peritoneum.] Effusion of blood into the peritoneal cavity.

the peritoneal cavity.

hemophile, hemophile (hem'ō-fil), a. and n.

[Gr. aiµa, blood, + \$\phi\leftaiv,\$ loving.] I. a.

Having reference to an abnormal tendency toward hemorrhage.

II. n. One who is subject to hemophilia.

hemophiliac, hemophiliac (hem-ō-fil'i-ak), a. and n. Same as *hemophile. Buck, Med.

Handbook, V. 361.

hemophobia hemophobia (hom ō fā/hi *)

hemophobia, hemophobia (hem-ō-fō'bi-š), n. [Gr. aiμa, blood, + -φοβία, < φοβεῖν, fear.] Same as hematophobia.

hemoplasmodium, hæmoplasmodium (hem'ō-plas-mō'di-um), n. [NL., < Gr. aiµa, blood,
+ plasmodium.] 1. The plasmodium of a
hematozoan, or blood-parasite, such as the
malarial plasmodium.— 2. Same as hemato-

hemopoiesis, hæmopoiesis (hem'ō-poi-ē'sis),

n. Same as hematopoiesis.
hemopoietic, hæmopoietic (hem'ō-poi-et'ik),

a. Same as hematopoietic.

hemoptysic, hæmoptysic (hem-op-tiz'ik), a.

Same as hemoptysical.

hemopyrrol, hemopyrrol (hem- \bar{o} -pir' \bar{o} l), n.

[Gr. $ai\mu a$, blood, $+\pi\nu\rho\rho\delta\varsigma$, reddish, + -ol.] A decomposition-product which can be obtained from hematoporphyrin, as well as from phylloporphyrin, on reduction with phosphonium

hemorhodin, hæmorhodin (hem-ō-rō'din), n. A rose-colored pigment found in the blood of the sea-hare, Aplysia depilans.

hemorrhagin, hemorrhagin (hem'ō-raj-in), n. [hemorrhage + -in².] The cytotoxin (en-dotheliotoxin) which causes the destruction of vascular endothelial cells and thus brings about the occurrence of extravasations of

Hemorrhoidal arteries. See *artery hemoscope, hæmoscope (hem'ō-skōp), Same as *hematoscope.

hemoscopy, hæmoscopy (hem-os'kō-pi), n. Same as *hematoscopy.
hemosiderin, hæmosiderin (hem-ō-sid'e-rin), n. [Gr. $ai\mu a$, blood, $+ \sigma i\delta n p o c$, iron, $+ -in^2$.] A dark pigment containing iron which has been found in extravasated blood and thrombi. It is undoubtedly derived from the blood-pig-

ment hemosiderosis, hæmosiderosis (hem-ō-sid-e-ro'sis), n. [hemosider(in) + -osis.] A form of hemachromatosis in which hemosiderin is deposited in the tissues or organs.

hemosozic, hæmosozic (hem-ō-sō'zik), [Irreg. < Gr. aiμa, blood, + σωζεω, save, + -Same as *antihemolytic.

hemostat, hæmostat (hem'ō-stat), n. [Gr. hendecoic (hen-dē-kō'ik), a. [Gr. ἐνδικα, eleven, αἰμα, blood, + στατός, (ἰστάναι, cause to stand.]
An instrument used to compress a bleeding vessel in order to arrest hemorrhage.

Hemorrhage is arrested by picking up the divided bloodHendersonia (hen-der-sō'ni-ši), n. [NL.(Berkeley, 1841), named for E. G. Henderson, an English botanist.] A large genus of sphæsensish botanist.

Hemorrhage is arrested by picking up the divided blood-essels with hemostats. Phil. Med. Jour., Jan. 31, 1903, p. 223.

Hemostatic forceps. See *forceps and *hemo-

hemolysis.
hemolyzability, hemolyzability (hem'ō-līza-bil'i-ti), n. Susceptibility or liability to
hemolysis.
hemolysis.
hemolyzable (hem'ō-lī-za-bl),
swift, + -μετρία, measurement.] Measurement. of the rapidity of the circulation of the blood. hemotoxic, hæmotoxic (hem-ō-tok'sik), a. Same as *hematotoxic and hemolytic.

hemotoxin, hæmotoxin (hem'ō-tok'sin), n. Same as *hemolysin.

Same as **hemolysin.*
hemotropic, hæmotropic (hem-ō-trop'ik), a.
[Gr. aiμa, blood, + -τροπος, < τρέπειν, turn, +
-ic.] A term sometimes applied to the cytophilic group of the hemolytic amboceptors.
- Hemotropic poison. See **poison.

s hemolysed by foreign serse probable, for example, being a public to recample, being the probable for example, being properly the property of the hemolytic amboceptors.

hæmomediastinum h. Effusion of blood into Effusion of blood into Same as hemoglobinom-base as hemoglobinom-base of the blood.

pathology (hem δ-pablood, the pathology) hases of the blood.

noperitioneum (hem δ-normal hemograph and the blood into Effusion of blood into the finally sterculateses; or, the plant itself. The bark is used by the settlers as a tying material.—Bologna hemp, a very fine, flexible, lustrous white Italian hemp. Canadian hemp. Same as American *hemp (0).—Conadian hemp. Sa the sea-hare, Aplysia aepuans.

hemorrhage, n.—Primary hemorrhage, hemorrhage occurring at the time the causal injury is received or an operation is performed.—Punctate hemorrhage, minute areas of blood effused into the tissues from ruptured capillary vessels.

Hemorrhagic septicemia. Same as cattle-and-hemp beater (hemp'bē'tèr), n. One who beats retted stems of hemp to separate the fibrous

Hempel's gas-analysis apparatns. See *ap-

Hemphill porcelain. See American *porce-

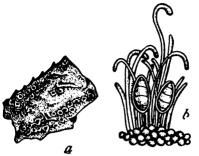
Hempstead beds. Same as Hampstead *beds. hen1, n.—Hen and chickens, a name for the Pleiads.
— Native hen, Tribonyx mortieri, an Australian rail. hen1 (hen), v. i.; pret. and pp. henned, ppr. henning. To back down in a cowardly way; funk out: as, he henned at the last minute.

[Scotch.] henchwoman (hench'wum'an), n. A female attendant. [Nonce-word.]

Gudrun and her faithful henchwoman, Dalla, illustrate in themselves the conservativeness of the feminine mind. Daily Telegraph, April 20, 1886, p. 2.

hendecane (hen'de-kān), n. [Gr. ενδεκα, eleven, + -ane.] Another name for *undecane.
hendecatoic (hen-dek-a-tō'ik), a. [Gr. ενδεκα, eleven, + -to- + -ic.] Same as *undecylic.
hendecenoic (hen'dē-se-nō'ik), a. [Gr. ενδεκα, eleven, + -en + -o- + -ic.] Same as *undecylic. cylenic.

ropsidaceous fungi having the pycnidia borne



Hendersonia lineolans

a, habit of the fungus, somewhat enlarged; b, hymenium with spores, highly magnified. (From Engler and Prantl's "Pfianzenfamillen.")

eveneste the surface of the host but becoming erumpent at maturity. The spores are dark-colored, more or less elongate, and 3- or more celled. Over 250 species have been described. They occur chiefly on the dead branches of trees, but several species have been found on living leaves. H. Cydoniæ occurs on quince-leaves in America and H. lineolans on branches of willow (Salia).

heneicosane (hen-ī'kō-sān), n. [Gr. εν, one, + εἰκοσι, twenty, + -ane.] A colorless hydrocarbon, C₂₁H₄₄, found in brown coal paraffin. It melts at 40.4° C., and boils at 215° C. under 15 millimeters pressure.
hen-feathered (hen'feψH'erd), a. Wearing the plumage of the hen; henny: said of a cock. See henny.

See henny.

hen-feathering (hen'fe\(\text{H'er-ing} \)), n. The plumage of the hen worn by the cock of the domesticated fowl.

hen-fea (hen'f\(\text{i}\)), n. A cosmopolitan flea, Sar-mala (hen'f\(\text{i}\)), a.

copsylla gallinacea, especially injurious to

young poultry.

hen-frigate (hen'frig'āt), n. A vessel in
which the master's wife or daughter interferes with the general rules, regulations, and cus-toms on board ship. [Slang.]



Henicocephalus culicis. Much enlarged.

Henicocephalidæ (hen' i-kō-se-fal'i-dē), n. pl. [NL. Henicocephalus (Enicocephalus, Westwood, 1837) + -idæ.] A remarkable heteropterous family, allied to the Reduvidæ, in which the upper wings are entirely membranous, as in Hymenoptera, and the anterior pair of legs is greatly enlarged. Twelve species are known. Twelve species are known, two occurring in the United States; they are Henico-cephalus culicis and H. formicinis.

Henle's ligament, loops, spine. See *liga-

ment, etc.
hen-louse (hen'lous), n. A
wide-spread mallophagan,
Menopon pallidum, of the
family Liotheidæ. Compare
*chicken-louse.

hennotannic (hen-ō-tan'ik), a. [henna + tannic.] Noting an acid, a brown resinous compound resembling tannin, contained in commercial henna.

henny, a. II. n. A cock which has the plumage of a hen.

Henny game, a breed of game fowls in which the cocks have the Menopon pullia plumage of the hens.



Henoch's purpura. See *purpura. henogenesis (hen-ō-jen'e-sis), n. [Gr. εἰς (ἐν-), one, + γένεσις, generation.] The development of the individual, or ontogeny, as contrasted with the development of species. [Rare.]

henogeny (he-noj'e-ni), n. Same as *henogenhen-pox (hen'poks), n. A disease of ordinary

fowls, turkeys, pigeons, and more rarely geese, chiefly affecting the head and appear-ing as an eruption of round or oblong yellow nodules having somewhat the appearance of warts. See also *bird-pex.

varies at the rate of one ampere per second.

hense, adr. and v. Another spelling of hence.

Hensel, basilar length of. See *basilar.

henselion (hen-se'li-on), n. [Named for Hensel, a German anatomist.] In antrop, the

medial point back of the alveoli of the middle incisors. O. Thomas.

Hensen, canal of, plane of. See *canal1,

Hensen's disk, prop-cells. See *disk, *prop-

hentricontane (hen-trī-kon'tān), n. [Gr. $i\nu$, one, $+\tau\rho\iota$ (i)kovra, thirty, $+\alpha ne$.] A colorless hydrocarbon, CH₃(CH₂)₂₉CH₃, of the methane series, contained in beeswax and in petroleum. It melts at 68.1° C., and boils at 302° C. under 15 millimeters pressure.

hep3 (hep), interj. [Var. of hip5.] A quick explosive utterance, leading to a sonorous outburst, urging men or horses to more rapid action $(\pi\pi ar)$. Iver, $\pi \circ f(\kappa k r)$, poison, $\pi \circ f(\pi r)$ approximately $\pi \circ f(\pi r)$ and $\pi \circ f(\pi r)$ and $\pi \circ f(\pi r)$ are in the liver.

hep3 (hep), interj. [Var. of hip5.] A quick explosive utterance, leading to a sonorous outburst, urging men or horses to more rapid explosive utterance in the liver.

hep3 (hep4 ($\pi r \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$ are in the liver.

hep3 (hep4 ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$ are in the liver.

hep3 (hep4) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$ are in the liver.

hep3 (hep4) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$ are in the liver.

hep3 (hep4) ($\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$ ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$) ($\pi \circ f(\kappa r)$), poison, $\pi \circ f(\kappa r)$)

calcium sulphid.—Hepar antimonii, in old chem., liver of antimony, the product obtained by fusing together antimonious sulphid and potassium or sodium sulphid. This product consisted of a sulphantimonite of potassium or sodium in a more or less pure condition and partially soluble in water.

hepatectomy (hep-a-tek'tō-mi), n. [Gr. ηπαρ (ηπατ-), liver, + ἐκτομή, excision.] Surgical removal of a part of the liver.

Hepatic apoplexy, cæcum, ligaments, sugar. See *apoplexy, etc.

hepaticopulmonary (hē-pat'i-kō-pul'mō-nā
hepaticopulmonary (hē-pat'i-kō-pul'mō-nā
The spores are unicellular and hvaline. hepar, n. 3. In the homeopathic materia medica,

hepaticopulmonary (he-pat'i-kō-pul'mō-nā-ri). a. [Gr. ἡπατικος, of the liver, + L. pulmo-narius, of the lungs.] Relating to both the liver and the lungs.

hepatitis, n.—'Acute parenchymatous hepatitis. Same as acute yellow atrophy of the liver (which see, under yellow).—Chronic interstitial hepatitis, cirrhosis of the liver.

hepatochrome (hep'a-tō-krōm), n. [Gr. $\dot{\eta}\pi a \rho$ ($\dot{\eta}\pi a \tau$ -), liver, + $\chi \rho \bar{\omega} \mu a$, color.] Same as *cho-

hepatocolic (hep'a-tō-kol'ik), a. [Gr. ἡπαρ (ἡπατ-), liver, + κόλον, colon, + -ic.] Relating to both the liver and the colon.—Hepatocolic ligament. See *ligament.

hepatoduodenal (hep'a-tō-dū-ō-dē'nal), [Gr. $\dot{\eta}\pi a \rho$ ($\dot{\eta}\pi a \tau$ -), liver, + E. duodenum + -[Gr. ηπαρ (ηπατ-), nver, τ. ε. αποιωτικών Relating to both the liver and the duodenum Relating to both the liver and the duodal hepatodynia (hep'a-tō-din'i-i), n. [NL., (carbon. Gr. ἡπαρ (ἡπατ-), liver, + ὀδύνη, pain.] Pain hepta-compound in the hepatic region.

Same as hep
A compound containing of some

hepatogenic (hep-a-tō-jen'ik), a. Same as hep-atogenous.

Hepatogenous jaundice. See *jaundice. hepatogenous jaundice. See *jaundice. hepatoid (hep 'a-toid), a. [Gr. ἡπατοειδής, < hepatotin (hep-tak'tin), n. [Gr. ἡπατοειδής, < hepatolith (hep-tak'tin), n. [Gr. ἡπαρ (ἡπατ-), hepatolith (hep'a-tō-lith), n. [Gr. ἡπαρ (ἡπατ-), hepatolith (hep'a-tō-lith), n. [Gr. ἡπαρ (ἡπατ-), hepatolith (hep'a-tō-lith), n. [Gr. ἡπαρ (ἡπατ-), hepatolith (hep-tak'til)) a. [hepatolith heptadaxia (hep-tak-de-hep

hepatolithic (hep'a-tō-lith'ik), a. [hepatolith + -ic.] Relating to or characterized by the

presence of gall-stones.

hepatological (hep-a-tō-loj'i-kal), a. [hepatolog-y+-ic+-all.] Of or relating to hepatology. hepatolysin (hep-a-tol'i-sin), n. [hepatolys(is) + -in².] A cytolysin which results on immunization with liver cells.

hepatolysis (hep-a-tol'i-sis), n. [Gr. $\eta\pi a\rho$ ($\eta\pi a\tau$ -), liver, + $\lambda \nu ac$, dissolution.] Destruction of the cells of the liver.

hepatolytic (hep'a-to-lit'ik), a. Causing hep-

hepatomalacia (hep"a-tō-ma-lā'si-ā), n. [Gr. $\eta \pi a \rho$ ($\eta \pi a \tau$ -), liver, $+ \mu a \lambda a \kappa i a$, softness, $\langle \mu a \lambda a \kappa i a \rangle$, soft.] Softening of the liver.

hepatoperitonitis (hep 's tō per'i-tō-nī'tis),
n. [Gr. ἡπαρ (ἡπατ-), liver, + NL. peritonitis.]
Inflammation of the peritoneal coat of the liver.

hepatorrhaphy (hep-a-tor'a-fi), n. [Gr. $\dot{\eta}\pi a\rho$ ($\dot{\eta}\pi a\tau$ -), liver, + $\dot{\rho}a\phi\dot{\eta}$, sewing.] The operation of suturing a wound in the liver.

hepatorrhexis (hep'a-tō-rek'sis), n. [NL., $\langle Gr. \dot{\eta}\pi a \rho (\dot{\eta}\pi a \tau)$, liver, $+ \dot{\rho} \bar{\eta} \xi \iota \zeta$, rupture.] Rupture of the liver.

hepatosplenitis (hep'a-tō-splē-nī'tis), n. [Gr. $\eta \pi a \rho (\eta \pi a \tau$ -), liver, $+ \sigma \pi \lambda / \nu$, spleen, +-itis.] Inflammation of both liver and spleen; Banti's

hepatotoxin (hep'a-tō-tok'sin), n. [Gr. $\dot{\eta}\pi a \rho$ ($\dot{\eta}\pi a \tau$ -), liver, + $\tau o \dot{\xi}(\dot{\kappa} \dot{\sigma} \nu)$, poison, + $-in^2$.] A cytotoxin resulting on immunization with liver

hepialid, n. and a. See *epialid.
Heppia (hep'i-ā), n. [NL. (Năgeli, 1854), named for Philip Hepp, a German lichenologist.] A genus of lichens having a foliose thallus and large disciform immersed apothecia. The spores are unicellular and hyaline.
Heppiaceæ (hep-i-ā'sē-ē), n. pl. [NL., ⟨Heppia + -aceæ.] A family of gymnocarpous lichens named from the genus Heppia.
Hepplewhite (hep'l-hwit), n. A style of furniture based on the designs of A. Hepplewhite, in England, in the later
the acetylene union.
heptoic (hep-tō'ik), a. [hept(ane) + -o- + -ic.]
Pertaining to orderived from heptane. Heptoic acid acolorless liquid compound, CH₃(CH₃)cCOOH, with an odor of tallow, formed by the oxidation of castor-oil or of oleic acid. It boils at 223-223.5 °C. and melts at 10.5 °C. Also called ænanthic acid.
heptone (hep'tōn), n. [Gr. ἐπτά, seven, + -one.]
heptose (hep'tōs), n. [Gr. ἐπτά, seven, + -ose.]
Sugar containing seven atoms of carbon. Such

in England, in the later part of the eighteenth century. The Hepple-white style is a delicate well-made adaptation of the current French mo-

tives of the period.

heptacarbon (hep-ta-kär'bon), a. [Gr. έπτα, seven, + carbon.] Con-

seven atoms of some

sponge-spicule having seven arms. Heptad axis of symmetry. See *symmetry. heptadecane (hep-ta-dek'ān), n. [Gr. ἐπτά, seven, + δέκα, ten, +-ane.] A colorless crystalline compound, CH₃(CH₂)₁₅CH₃, found in brown coal paraffin. It melts at 22.5° C. and boils at 303°C. Also called normal heptadecane.

Hepplewhite Chair.

ane.
heptahydrate (hep-ta-hī'drāt), n. [Gr. ἐπτό, seven, + ἐνδωρ (ὐδρ-), water, + -atel.] In chem., a compound containing seven molecules of water, as common copperas in crystals, or ferrous sulphate heptahydrate (FeSO₄.7H₂O). heptahydrated (hep-ta-hī'drā-ted), a. [Angle of the seven molecules of water, as heptahydrated sodium sulphate (Na₂SO₄.7H₂O). G. Lunge, Sulphuric Acid, II. 22. heptamæral (hep-tam'e-ral) a. [NI. (Gr.

consisting of seven feet or measures. Southey.

heptanone (hep 'ta-non), n. A ketone, C₇H₁₄O,
derived from heptane. Three isomeric forms are
known: 2-heptanone, which boils at 151-152° C; 3-heptanone, which boils at 147-148° C; and 4-heptanone, which
boils at 143.5° C. These are also known, respectively, as
methylamyl ketone, ethylbutyl ketone, and dipropylketone
or buturone. Inflammation of the peritoneal coat of the liver.

hepatopexy (hep'a-tō-pek-si), n. [Gr. ηπαρ (ηπατ-), liver, + πηξες, fastening.]

hepatophlebitis (hep'a-tō-flē-bī'tis), n. [Gr. ηπαρ (ηπατ-), liver, + φλεψ (φλεβ-), vein, + -itis.]

Inflammation of the veins of the liver.

hepatophlebitis (hep'a-to-flē-bī'tis), n. [Gr. ηπαρ (ηπατ-), liver, + φλεψ (φλεβ-), vein, + -itis.]

Inflammation of the veins of the liver.

Heptapla (hep'ta-plä), n. [Gr. ἐπταπλόος, sevenfold. ἐππά, seven, + -πλοος, -fold.] One of the editions of the Old Testament, by Origen

herbivority

(third century) containing seven versions of the Scriptures (or of parts of them) in parallel

Henrietta cloth. See *cloth.

henry (hen'ri), n.; pl. henries (-riz). [From Joseph Henry, 1797-1878.] An electrical unit, the inductance in a circuit when the electromotive force induced in this circuit is one international volt while the inducing current varies at the rate of one ampere per second.

hense, adr. and v. Another spelling of hence.

Hence's henry, 1797-1878.] An electrical unit, henatopulmonary (hep'a-tō-pul'mō-nā-ri), n.

Gr. ήπαρ (ήπατ-), liver, + L. pulmonarius, of the lungs.] Same as *hepaticopulmonary.

hepatorenal (hep'a-tō-rē'nal), a. [Gr. ἡπαρ (ππαστάδως, seven stadia long, ⟨έπταστάδως, seven stadia long, ⟨έ έπταστάδων, a space of seven stadia, neut. of έπταστάδως, seven stadia long, ζ έπτά, seven, + στάδων, stadium.] A great mole, built by Ptolemy Soter (117-81 B.C.), connecting Pharos island with the mainland at Alexandria in Egypt: so named from its length (seven stadia). The region is now a wide isthmus and occupied.

Any remains that may exist at the Emporium, the Apostases, the Navalia, the Heptastadium, the buildings on the Pharos island or round the Eunostus Harbour (i. e., the present port), are either under the sea or beneath occupied land. They cannot be explored and are probably not in the least worth exploring.

E. F. Benson, in Jour. Hellenic Studies, XV., Sup., p. 11.

heptatonic (hep-ta-ton'ik), a. [Gr. ἐπτάτονος, seven-toned, ζ ἐπτά, seven, + τόνος, tone.] In music, consisting of seven tones to the octave: said of scales: often contrasted with penta-

heptavalency (hep-ta-vā'len-si), n. [Gr. $\dot{\epsilon}\pi\tau\dot{a}$, seven, + E. valency.] In chem., valence or valency equivalent to that of seven monad atoms, as of hydrogen.

heptine (hep'tin), n. [Gr. $\dot{\epsilon}\pi\tau\dot{a}$, seven, +-ine².] A colorless liquid, C_7H_{12} , with a characteristic odor, formed by the distillation of colophonium resin. It bolls at 108-104° C, readily absorbs oxygen, and is a homologue of acetylene. There are four other isomeric compounds to which the term heptine is strictly applicable and which differ according to the position of the acetylene union.

Sugar containing seven atoms of carbon. Such sugars closely resemble the corresponding ones of the hexose series.

heptoxid (hep-tok'sid), n. [Gr. $\ell \pi \tau \dot{a}$, seven, + oxid.] In chem., a compound containing seven atoms of oxygen, as sulphur heptoxid (S₂O₇), corresponding to persulphuric acid (H₂S₂O₈).

Heptranchias (hep-trang'ki-as), n. [NL., a blunder for *Heptabranchius, \(\) Gr. ἐπτά, seven, + βράγχια, gills.] A genus of sharks of the family Hexanchidæ, remarkable for the presence of seven gill-openings instead of five, the

ence of seven gill-openings instead of five, the usual number. They are closely related to extinct forms. H. cincreus is found in the Mediterranean, H. maculatus on the coast of California. heptylamine (hep-til-am'in), n. [Gr. $\dot{\epsilon}\pi\tau\dot{a}$, seven, +-yl+amine.] A colorless compound, CH₃(CH₂)₅CH₂NH₂, prepared by the action of bromine and potassium hydroxid on caprylic arnide. It boils at 153-155° C. Also called 1. aminoheptane 1-aminoheptane.

heraclin (her's-klin), n. [Heracl(eum) + -in².] A colorless indifferent compound, C₂₂H₂₂O₁₀, obtained from the seeds of Heracleum villo-

obtained from the seeds of Heracieum villo-sum. It forms long, silky, lustrous needles melting at 185° C. Heræa (hē-rē'ä), n. pl. [Gr. 'Ηραία, neut. pl. of 'Ηραίος, adj. ('Ηρα, Hera.] In Gr. archæol., a festival celebrated in honor of Hera.

Heraldic crab. See *crab!.
herapathite (her'a-path-it), n. [Herapath, name of its discoverer, +-ite².] A little-used name for a crystalline iodoquinine sulphate used in medicine.

atolysis.

The post-mortem findings resemble those of acute yellow atrophy, or of phosphorus poisoning. We have to deal in this case with a hepatolytic serum.

Med. Record, July 18, 1908, p. 84.

hepatomalacia (hep-a-tō-ma-lā'si-ā), n. [Gr. έπτά, seven, + μέρος, part.] Having seven chambers or spaces, especially as applied to septal divisions in the Anthozoa or corals.

hardan (ἡπατ-), liver, + μαλακία, softness, < μαλα-hardanetrical (hep-ta-met'ri-kal), a. In pros., impia, 'irreverent plant.'] The cotton-rose, hardanetrical (hep-ta-met'ri-kal), a. In pros., impia, 'irreverent plant.'] The cotton-rose, Gijola Germanica: so called because each suc-down-head rises above the last older This plant is related to the cudweeds one. This p

herbivority (her-bi-vor'i-ti), n. [herbivor-ons + -ity.] The quality of being herbivorous; herbivorous nature.

Admitting the herbicority of the fossil [Stereognathus], it is not certain that it was hoofed.

Owen, in Encyc. Brit. (8th ed.), XVII. 152



Herbivorous ladybird. See *ladybird. Herculaneum ware. See *ware*. Hercules metal, rowder, stone. See *metal,

Hercynian, a. 2. In geol.: (a) Applied to a division of the Precambrian crystalline rocks in Westphalia, termed by Gümbel the Hercynian gneiss, lying above more highly altered rocks, and beneath those which are less altered and consist of mica schists and shales. First applied to the lowest Devonian strata of the Harz Mountains and Westphaiia, but subsequently restricted so as to refer to the calcareous or deeper water facies of these early Devonian rocks and their organic contents.

herderite, n.—It occurs also at Paris and Hebron, Maine. It is shown by Penfield to be monoclinic (pseudo-orthorhombic) in crystallization, with a composition expressed by the formula Ca [Be (F, OH)] PO4. Pure fluor-herderite has not yet been observed; the mineral from Paris is a hydrofluor-herderite, and that from Hebron a hydro-herderite.

herd-header (herd'hed'er), n. The bull which heads a herd of cattle.

The man who expects success as a breeder cannot look upon the selection of his herd-header as a light matter.

Rep. Kan, State Board Agr., 1901-02, p. 50.

herdwick (herd'wik), n. [herd2 + wick2. Hence the frequent village name Hardwick.] 1t. The tract of land under the charge of a herd or shepherd.—2. Applied to designate a hardy breed of sheep, found in the mountains of Cumberland and Westmoreland, and usually rented with the farm on which they are owned.

here¹ (hēr), n. [here, adv.] That which is here;
the present; this world. [Poetical.]

A half-effaced inscription. . .
Full of hope and yet of heart-break,
Full of all the tender pathos
Of the Here and the Hereafter.
Longfellow, Hiawatha, Introd., 1.113.

hereanent (hēr'a-nent'), adv. [here + anent.]
Relating to or concerning this; having a bearing on this matter. [Chiefly Scotch.]

Hereditary substance. See substance of *hered-

ity.

hereditation (hē-red-i-tā'shon), n. [NL.

"hereditatio(n-), < LL. hereditare, inherit: see
heredity, inherit.] Generation of like by like,
by regular course; reproduction. [Rare.]
hereditist (hē-red'i-tist), n. [heredit(y) + -ist.]
One who believes that children inherit their
character from their parents. [Rare.]
hereditivity (hē-red-i-tiv'i-ti), n. [*hereditive
+ -ity.] Ability to reproduce or generate
descendants like the parents. [Rare.]

Natural selection resolves itself into two laws: heredi-

Natural selection resolves itself into two laws: hereditivity and adaptivity, the latter being the accomodation to circumstances, etc.

Science, May 2, 1902, p. 711.

heredito-syphilitic (hē-red'i-tō-sif-i-lit'ik), a.

and n. I. a. Relating to or suffering from hereditary syphilis.
II. n. One who suffers from hereditary

syphilis. syphilis.
heredity, n. 2. (c) Metaphorically, that which
makes living beings inherit; the explanation
or cause of the kinship or resemblance to
ancestors which living beings exhibit, or the
force or agent or principle that brings about ancestors which living beings exhibit, or the force or agent or principle that brings about this kinship or resemblance. This metaphorical use of the word leads to forgetfulness of the fact that the word is only a general term for formulating the facts of kinship, and to the regarding of heredity and variation as independent and antagonistic principles or agents or factors in the origin of species. Since we can separate, in our minds, the kinship of living beings, or their likeness to their kind, from their individuality or difference from their kind, and since we find this intellectual analysis useful, some think that what is intellectually separable must be separate in fact, and that organic development is due to heredity and variation as antagonistic principles or agencies.—Amphigonic heredity, inheritance in organisms produced by sexual reproduction. Weismann (trans.), Germ-plasm, p. 253.—Ancestral heredity, See *inheritance.—Gross heredity, the resemblance of descendants to ancestors considered reciprocally. See heredity.—Galton's and Pearson's laws of heredity. See *inheritance.—Homochronic heredity, the development of the organs and tissues in the same chronological order in the offspring as in the parent, considered as a distinct form of inheritance. Weismann (trans.)—Social heredity, the acquisitions by social animals of the habits and customs and traditions of their kind, through their power to profit by experience and to use it to advantage, and quickly to acquire the mode of life that is characteristic of their species by imitation and example and instruction, without the risk that attends trial and error: considered as a determining factor in the origin of species. Since social animals cannot acquire the customs of their kind without natural apitude, and since those that fail to find places for themselves in society are at a disadvantage in the struggle for existence, social heredity is rather a special

case of natural selection than an independent determining factor in the origin of species — Substance of heredity, hereditary substance, (a) The material basis of inheritance or the living matter that is transmitted from parent to offspring in reproduction, and in the transmission of which reproduction consists. There is evidence, which is accepted as conclusive by most authorities, that the essential fact in reproduction is the transmission of the chromosomes of the germ-cells, and this is commonly held to be proof that the chromosomes are the material basis of inheritance, although this conclusion does not follow of necessity from the facts, if the term is understood as implying that they are not also the material basis of individuality. While descendants resemble ancestors, they are never identical with them. Each living being is unique: there is no other like it; and while it resembles its kind, it is different from all of its kind and from everything else in nature. Proof that the chromosomes are the substance of heredity is no proof that they are not also the substance of variation. (b) Metaphorically, the substratum or support or bearer or giver or cause of inheritance: that which makes the offspring to be like its parents or ancestors. This meaning (which depends upon an uncritical use of the word substance, and upon the opinion that we account for inheritance by calling it heredity) leads to the belief that since resemblance to parents may be considered by itself, it therefore exists in nature separated from the individuality of living beings.

Hereford (her'ē-ford), n. A breed of beef the substance of the considered of the substance of leads of the substance of leads of the lindividuality of living beings.

Hereford (her'ē-ford), n. A breed of beef cattle, maintained chiefly in Herefordshire, England. The body color is a deep red, the cattle, maintained chiefly in Herefordshire, England. The body color is a deep red, the face, mane, throat and chest white, and the horns are moderately long.

11. a. Of or belonging to the Herminiidæ.

12. a. Of or belonging to the Herminiidæ.

13. In landscape-gardening, a secluded building, arbor, or other feature.

horns are moderately long.
heregeld, n. A variant of heregild.
herem (her'em), n. [Heb. herem, < haram, to
ban, exterminate, forbid: see harem.] Exban, exterminate, forbid: see harem.] Excommunication from the synagogue. This punishment was specially meted out to those holding doctrines contrary to the Jewish religion. The reformed Jews, however, have abandoned the practice, but it is still a formidable weapon in the hands of the rabbis of orthodox Jewish communities in Russia and the Orient. Also cherem.

Heremetabola (her-ē-me-tab'ō-lā), n. pl. [NL., said to be formed (if so, properly *Eremometabola) < Gr. ηρεμα, quiet, + μεταβολή, change.] A group of insects including those forms which have a gradual but incomplete metamorphosis, with a resting-stage, as in the

metamorphosis, with a resting-stage, as in the Cicadidæ.

hereticize (hē-ret'i-sīz), v. t.; pret. and pp. hereticized, ppr. hereticizing. [heretic + -ize.] Same as hetericate.

Hering's and Wundt's figures. See *figure. herisseal (he-ris e-al.), n. [Appar. \(F. \) herisson, hodgehog, +-e-al.] A lateral bone behind the eyeball of the head of fishes connected with the pterygoid and palatine; the mesop-terygoid. Starks, Synonymy of the Fish Skeleton, p. 514.

heritage, n.—Diligence against the heritage. See **ddiligence. hermana (er-mä'nä), n. [Sp.] 1. A sister.

—2. A sister-in-law.

Hermann's demarcation current. Same as *current of injury.
hermano (er-mä'nō), n. [Sp.] 1. A brother.
—2. A brother-in-law.

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Hermaphrodite duct. See *duct. duct. See *auc..

Hermellidæ (hermal'i-dē), n. pl. mel'i-dēj, n. pl.
[NL., \langle Hermella +
-idæ.] A family of
cryptocephalous o
Polychæta having the peristomium enor-n-mously developed mously developed and in the form of a bilobed hood capa- k ble of closing over the mouth, the lobes bearing defensive chætæ. It contains the single marine genus Sabellaria or Hermella, which lives in tubes in the Sabellaria alveolata L. Ven-tral view of anterior region. Enlarged about six times. tubes in the in sand.

hermeneutical (hermē-nū'ti-kal), a. Relating to herme-neutics; hermeneu-

Hermetic books. See Hermetic, 2. Hermetism (her'me-

a, multifd palp (gill filaments); b, mouth: c, notopodial cirrus; d, neuropodium; c, notopodium; f, ventral (tubiparous) gland shield; m. b. f, h. and g, segments following peristome; f, neuropodial cirrus; m. ridges after removal of gill filaments; c, tentacle; p, peristomial chaette; g, hood formed by peristomium. (From "Cambridge Natural History.")

The modern alchemists accept all the traditions of their ancient predecessors, but give them a new significance, and interweave the novel phenomena derived from researches in pure science. They claim that during the fourteenth, fifteenth and sixteenth centuries the official heron, n.—Purple heron. See purple.

schools of instruction taught exclusively the physical part of the sciences, and that the metaphysical part (which is the real life and soul of the study) has been rejected under the opprobrious name of occult science. This living aspect of science has, however, been studied in the secret societies of the initiated, which have preserved the traditions of the kabala, the mysteries of hermetism, and the practice of transmutation.

H. C. Rolton in Smithsonian Rep. 1807 p. 212

H. C. Bolton, in Smithsonian Rep., 1897, p. 213. Hermetist (her'me-tist), n. [cap. or l. c.] One who accepts the occult doctrines of the Hermetic books; a Hermetic philosopher.

The astral undulations determine the position of the atoms or neutralize them. Herein lies the secret of transmutation, and it becomes the privilege of the hermetist to acquire the power of controlling this agent.

H. C. Bolton, in Smithsonian Rep., 1897, p. 215.

hermetologist (her-me-tol'o-jist), n. A Hermetist; a believer in the Hermetic philoso-

The services of the new psychology to the Christian religion, I believe it is impossible to overestimate. Its teachings of the manifold human degeneracies make the doctrine of sin as vital as with the most ardent of the old hermetologists, and far more tempered and potent.

G. S. Hall, in The Forum, Aug. 1894, p. 719.

A breed of beef herminiid (her-min'i-id), n. and a. I. n. One

The hermitage being directly on the axis of the villa, one looks out from the latter down the admirable perspective of the tapis vert and up the Scala Santa to the little house at its summit.

Edith Wharton, Italian Villas, p. 66.

Hermite process. See *process. hermit-lobster (her'mit-lob'ster), n. A hermit-crab.

hermophenol (her-mō-fē'nōl), n. [Gr. Έρμῆς, Hermes, Mercury, + E. phenol.] Mercury-phenol-disulphonate of sodium. It is anti-Mercury-It is anti-

phenol-disulphonate of sodium. It is anti-septic and antisyphilitie.

Hermostilla (hér-mō-sil'ä), n. [NL., < Her-mosilla, the capital of Sonora, Mexico, < Sp. hermoso, beautiful, < L. formosus, beautiful.]

A genus of rudder-fishes of the family Kypho-sidæ, found on the coast of Sonora in the Gulf of California. H. azurea is the known species. hernani (er-na'ni), n. [From the (F.) per-sonal name Hernani.] A grenadine dress fabric woven in small meshes of coarse threads of silk, cotton, or wool, and their intermixtures.

intermixtures.

hernia, n.—Complete hernia, a hernia in which the contents have passed beyond the external ring of the inguinal canal.—Concealed hernia, a form of incomplete hernia of such small size as to be impossible of detection by ordinary examination.—Congenital hernia, a scrotal hernia present at birth or appearing shortly after.—Diaphragmatic hernia, hernia of a portion of the bowel through a ruptured diaphragm into the chest cavity.—Diverticular hernia, a hernia formed by a diverticulum from the intestine, usually the ileum, and not containing a complete loop of the bowel.—Hernia obturatoria, hernia through the obturator foramen.—Hernia of the cornea. Same as ceratocele.—Hernia, a form of fersoral hernia.—Incomplete hernia, a hernia in which the sac has not passed beyond the external ring.—Littré's hernia.—Same as diverticular *hernia.—Amucosal hernia, extrusion of the muscular coat.—Peritoneal hernia, extrusion of the muscular coat.—Peritoneal hernia. See *gut-tie.—Richter's hernia, hernia in which only a part of the circumference of the bowel is involved: possibly an early stage of a diverticular hernia.—Silpped or sliding hernia, hernia of the cecum or sigmoid fiexure, in which only a portion of the bowel is in the sac, the outside part having no peritoneal covering.—Tunicary hernia. Same as *mucosal *hernia.

hernia-knife (hèr'ni-ä.-nif), n. Same as *hernia.

hernia-knife (her'ni-ä-nīf), n. Same as

herniarin (her-nī'a-rin), n. [Herniaria + -in2.] A grayish powdery glucoside, C₁₉H₃₀O₁₀. found in *Herniaria glabra* and *H. hirsuta*. It

resembles saponin in general properties.

herniotome (her'ni-ō-tōm), n. [hernia + Gr. -τομος, ⟨ταμεῖν, cut.] A knife resembling a bistoury with a short cutting-edge, the rest of the blade being rounded, used for incising the constricting tissues in hernia.

herniotomist (her-ni-ot'ō-mist), n. [herni-otom-y + -ist.] One who is skilled in herniotomi

Herodianic (he-rō-di-an'ik), a. Of or per-taining to Herodianus, a Byzantine gramma-rian of about 200 A. D.—Herodianic signs. See

Hermetism (her'metizm), n. [cap or l. c.] The philosophical, theosophical, and alchemical doctrines of Hermes Trismegistus; hermetics.

The modern alchemists accept all the traditions of their ancient predecessors, but give them a new significance, and interweave the novel phenomena derived from remody valuable in the treatment of various forms of respiratory disease. It allays cough and interweave the novel phenomena derived from remody accept an a hyponotic.

Heronic (hē-ron'ik), a. Of or pertaining to Heron (about 250 B. C.), an Alexandrian mathematician.—Heronic cyclic polygon, cyclic quadrilateral, parallelogram, pyramid. See *polygon,

heronite (her'on-it), n. [Heron Bay, on the north shore of Lake Superior, + -ite2.] An aphanitic dark-colored rock occurring in a

aphanitic dark-colored rock occurring in a dike composed of analcite, orthoclase, plagioclase, and ægirite. The analcite forms a matrix for the other minerals, which are in radiating groups. Coleman, 1899.

Heros (hē'ros), n. [NL., without evident allusion, < L. heros, < Gr. ηρως, hero.] A very large genus of perch-like fishes found in the waters of Central and South America, and characterized by the large number of anal spines. The species are very numerous, one of them. H. cuanoauttatus. extending

one of them, H. cyanogutatus, extending north to the waters of Texas.

Hero's lamp. See *lamp1.

herotheism (hē-roth'ē-izm). n. [Gr. ἡρως, hero, + θεός, god, + -ism.] The worship of deified heroes. N. E. D.

Herpes ircinatus, ringworm.—Herpes iris, a form of herpes in which the vesicles are grouped in an annular form.—Herpes preputialis, herpes affecting the preputer.

An abbreviation of herpetology.

herpet. An abbreviation of nerpetology.
herpetiform (her-pet'i-fôrm), a. [Gr. έρπετόν, reptile, + L. forma, form.] Resembling or having the characters of a reptile.
herpetography (her-pe-tog'ra-fi), n. [Gr. έρπετόν, reptile, + -γραφία, < γράφειν, write.]
The description of reptiles; also, in a gencial same as hermetology.

herpetospondylian (her'pe-tō-spon-dil'i-an), a. and n. I. a. Relating to or having the characters of the Herpetospondylia.

II. n. A member of the reptilian subclass

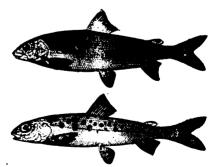
Herpetospondylia.

Herpotospondylia.

Herpobdellidæ (hċr-pob-del'i-dē), n. pl. [NL., < "Herpobdella + -idæ.] A family of leeches in which the pharynx is without denticulate jaws but has three unarmed chitinous plates. It contains the genus Trocheta.

Herpotrichia (hėr-pō-trik'i-ä), n. [NL. (Fuckel, 1869), irreg. < Gr. ἐρπειν, creep, + θρίξ (τριχ-), hair, thread.] A genus of pyrenomycetous fungi having the perithecia usually seated upon a brown mycelial layer, a subigulum. upon a brown mycelial layer, a subiculum. The spores are more or less elongate, several-celled, and brown. H. nigra is parasitic on pines and other conifers in alpine or subalpine regions. The mycelium envelops the twigs and fastens them together in a dark-

herring, n. 2. In Australia, Prototroctes margena, the Yarra herring, fresh-water herring, grayling, or eucumber-mullet, found in the rivers of Victoria and Tasmania. Austral rivers of Victoria and Tasmania. Austral English.—Big-eyed herring. (a) The alewife, or branch herring, Pomolobus pseudoharengus. (b) The ten pounder, Elops saurus, found in all tropical waters.—Blear-eyed herring, the alewife, Pomolobus pseudoharengus.—Blueback herring, the lake herring, Argyrosomus artedi, of the Great Lakes.—Blue herring, a species of alewife, Pomolobus chrysochloris, of the family Clupeide, found in all the larger streams of the Mississippi valley.—Fresh-water herring. (b) Clupea or Harengula richmondia: so called in Sydney, Australia; elsewhere in Australia, and in Tasmania, the grayling.—Gibbed herring, a pickled herring which has not been split, but from which the viscera have been removed.—Great Bear Lake herring, a whitefish, Argyrosomus lucidus, found in Great Bear Lake.—Herring silver. See *silver.—King of the herrings. (b) One of the common names applied to the opah, Lampris guttatus, and to various other unrelated fishes.—Mountain her-



Mountain Herring (Coregonus williamsons). Upper figure, mature fish; lower figure, young fish. (From Bulletin 47, U. S. Nat. Museum.)

ring, the Rocky Mountain whitefish, Coregonus william ring, the Rocky Mountain whitefish, Coregonus willfamena, a small gamy fish of great excellence as food, found in streams of the Rocky Mountains, the Sierra Nevada, and northward.—Porth herring, Dorosoma erebi, a clupeoid fish found in Australia. Also called bony bream.—Picton herring, a name given to several fishes when dried (like 'kipper'), especially to the sea-mullet, and the moray of New South Wales. E. E. Morris, Austral English.—Queen of the herrings, Alosa alosa, a clupeoid fish found on the coasts of Europe.—Rainbow herring, a common name for Osmerus dentex, a smelt found on the coast of Alaska, and south on the eastern Pacific coast of northern China.—River herring, the alewife, Pomolobus pseudoharengus.—Summer herring. Same as glut-herring.—Tailor herring. Same as fall herring (which see, under herring).—Yarra herring. Same as **grayling.*

herring-bone, v. t. 2. In carp., to strengthen (a floor) by herring-bone bridging, that is, with short pieces of studding set diagonally from the lower edge of one beam to near the upper edge of the next.—3. In masonry, to build, as a wall, of stone, tiles, or bricks laid at an angle with the horizon so as to show on the face in a series of diagonals, generally in alternate courses so as to produce a continued zigzag.

herring-cale (her'ing-kāl), n. In New South Wales, the fish Olistherops brunneus, of the family Labridæ, or wrasses. E. E. Morris, Austral English.

herringer, n. 2. A boat engaged in the her

herring-fisheries.
herring-pond (her'ing-pond), n. The Atlantic Ocean. [Jocose.]
herring-salmon (her'ing-sam'un), n. A whitefish, Argyrosomus artedi, found in the Great Lakes. It is neither a herring nor a salmon. salmon.

II. n. A native of Herzegovina. hesperetin (hes-pe-re'tin), n. [Appar. \langle Gr. $\ell\sigma\pi\ell\rho a$, the west, + $\rho\eta\tau\ell\nu\eta$, resin. If this is correct, the form hesperitin is an alteration.] Same as *hesperitin.
hesperetol (hes-per'e-tol),

esperetol (hes-per'e-tôl), n. [hesperet(in) +-ol.] A colorless crystalline compound, $\mathrm{CH}_2: \overset{1}{\mathrm{CH}}. \mathrm{C}_6\mathrm{H}_3(\overset{3}{\mathrm{OH}})\overset{2}{\mathrm{OCH}}_3$, formed by heat-

CH₂: CH. C₆H₃(OH)OCH₃, formed by heating isoferulic acid. It melts at 57° C.

hesperic (hes-per'ik), a. [Gr. ἐσπέρα, the west, +-ic.] Noting an acid, a colorless, crystalline, tasteless compound, C₂₂H₂₈O₇, extracted from orange-peel by means of alcohol.

hesperidene (hes-per'i-dēn), n. [hesper(ic) +-id +-ene.] Same as citrene and carvene.
hesperinic (hes-pe-rin'ik), a. [hesper(ic) +-in+-ic.] Derived from hesperidene.—Hesperinic acid, a colorless compound, C₂₀H₂₈O_{17:2}H₂O, formed by the oxidation of d-limonene with nitric acid.

Hesperioidea (hes-per-i-oid'ē-ā), n. nl. [NL..

Hesperioldea (hes-per-i-oid e-ä), n. pl. [NL., (Hesperia + -oidea.] The butterflies of the family Hesperiidæ considered as a superfamily. hesperitin (hes-per'i-tin), n. [See *hespere-tin.] A colorless, intensely sweet compound, $H\mathring{O}C_6H_3(O\mathring{C}H_3)\mathring{C}_2H_2$. $O\mathring{C}OC_6H_3(O\mathring{H})_2$, which is obtained by boiling hesperidin with dilute aqueous-alcoholic sulphuric acid. It crystallizes in plates and melts and decomposes at 226° C.

Hesperornithes (hes-pe-rôr'ni-thēz), n. pl. [NL., pl. of Hesperornis.] An order of toothed birds representing the superorder Odontolese and represented by the genus Hesperornis (which see)

(which see).

hesperornithid (hes-pe-rôr'ni-thid), n. One heteroblastically (het e-rô-blas'ti-kal-i), adv. of the Hesperornithide or Hesperornithes.

hesperornithide (hes-pe-rôr'ni-thoid), a. and n. [Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a. Having the characters of or related to the Hesperornis (-ornith-) + -oid.] I. a.

rornithes.

II. n. A bird resembling Hesperornis. hessenbergite (hes'en-berg-it), n. [F. Hessenberg + -ite²] A silicate of undetermined composition occurring in colorless tabular crystals in the hematite of Mount Fibbia, St. Gotttals in the hematite of Mount rivois, so. Same hard, Switzerland. It may be the same mineral as the more recently described bertran-heterocarpic (het'e-rō-kär'pik), a. Same heterocarpous. Amer. Nat., Jan., 1904, p. 82.

Hessian¹, a.— Brilliant Hessian purple. See *purple.— Hessian bellows, blue, Bordeaux, brown, violet, yellow. See *bellows, etc.

Hessian², n.— Hessian of a curve (of the nth order), a curve of the 3(n-2)th order, which not only passes through the double points of the original, but has itself double points which coincide with them.— Hessian of a net of plane curves, the locus of the double points of the curves of the net. It is the locus of points whose polars with regard to these curves are copunctal.— Hessian of a surface (of the nth order), a surface of the 4(n-2)th order, which passes through the double and the parabolic points of the original.

Hescia clays Sea *kclay.

parabolic points of the original.

Hessle clay. See *clay.
hetsric (he-ter'ik), a. [Gr. ἐταιρικός, 〈 ἐταιρος or ἐταίρα, companion: see hetæra.] Of or pertaining to the heteræ. Also hetairic.

Heteractidæ (het-e-rak'ti-dē), n. pl. [NL., 〈 Heteractis + -idæ.] A family of actiniarian Zoantharia which have clavate knobbed rian Zoantharia which have clavate knobbed tentacles. It contains the genera Heteractis, Stauractis, Rhopalactis, Ragactis, and Eloactis. heteractinid (het-e-rak'ti-nid), a. [Gr. ἐτερος, other, + ἀκτίς (ἀκτιν-), ray, + -id.] Having more than the usual (five) rays, as an echinoderm, especially one of the genus Asterias. Heteractis (het-e-rak'tis), n. [NL., < Gr. ἐτερος, other, + ἀκτίς (ἀκτιν-), ray.] The typical genus of the family Heteractidæ. Milne-Edwards. 1857

vards, 1857

wards, 1857.

Heterandria (het-er-an'dri-ä), n. [NL., ⟨Gr. ε̄rερος, other, different, + ἀνήρ (ἀνδρ-), man (male).] A genus of very small killifishes which belong to the family Pœciliidæ. The males are very much smaller than the females, and the anal fin of the male is much modified, serving as an intromittent organ. H. formosa is common in Florida. It attains a length of a little more than half an inch, and is perhaps the smallest known vertebrate. Herschel's fringes. See *fringe.
Herts. An abbreviation of Hertfordshire.
Hertwigia (hert-wig'i-\(\text{a}\)), n. [Named from Hertwigia (hert-wig'i-\(\text{a}\)), n. [Named from Hertwigidæ. O. Schmidt, 1880.

Hertwigidæ. O. Schmidt, 1880.
Hertwigidæ (hert-wig'i-\(\text{d}\)), n. pl. [NL., < Hertwigidæ (hert-wig'i-\(\text{d}\)), n. pl. [NL., < Hertwigidæ + -idæ.] A family of lyssacine, hexactinellid sponges, having the skeletal framework composed of hexactines and diactines united by synapticulæ. It contains the menera Hertwigia and Trachycaulus.

**Transportations to the family Pacciliidæ. The males are very much smaller than the females, and the anal fin of the male is much modified, serving as an intromittent of organ. H. formosa is common in Florida. It attains a length of a little more than half an inch, and is perhaps the smallest known vertebrate.

Hertwigia Hertwigia** Hertwigia**

tines united by synapticulæ. It contains the genera Hertwigia and Trachycaulus.

Hertzian (hert'si-an), a. Of or pertaining to Heinrich Hertz, (1857-1894) the discoverer of +-y³] The character of being heterandrous. electro-magnetic waves, or (specifically) to such waves.—Hertzian exciter. See *exciter.— Hertzian wave. See *wavel.

Hertzian wave. See *wavel.

Hertzian wave. See *wavel.

Herzegovinian (hert'se-gō-vin'ı-an), a. and n.

[Herzegovina + -ian.] I. a. Of or pertaining Hetereupuccinia (het'e-rū-puk-sin'i-ā), n. pl.

[NL., ζ Gr. ἐτερος, different, + εὐ-, true, +

NL. Puccinia.] A group of species of fungi of the genus Puccinia, in which the uredospores and teleutospores are developed on one host and the spermogonia and æcidia on another.

heterism (het'e-rizm), n. [Gr. ετερος, other, different, + -ism.] A general term for intraspecific differences of organisms not caused by the environment. Diversified sexes and castes are specializations of heterism. Cook and Sirinale.

heterization (het'e-ri-zā'shon), n. [heterize + -ation.] The act or process of heterizing or making other or different.

The estrangement, alienation or heterization of the in-dividual from the whole and the ultimate reconciliation is well illustrated in sex love, which from the standpoint of intelligence seems the most personal thing in the we. ld, but is really, when we penetrate the illusions, seen to be in every item dominated by the interest of the species. Saunders and Hall, in Amer. Jour. Psychol., XL 574.

heterize (het'e-rīz), v. t.; pret. and pp. heterized, ppr. heterizing. [Gr. ἐτερος, other, + -ize.] To make other or different; change.

heteroagglutinin (het'e-rō-a-glö'ti-nin), n. An agglutinin which will cause the coalescence of cells from an animal of an alien species: in

contradistinction to *isoagglutinin.

heteroalbumose (het'e-rō-al'bū-mōs), n. A
primary albumose which is very closely related
to the original albumin from which it is derived. On standing it becomes insoluble in part and is then called dysalbumose. Heterosibumose is an antibody, in the sense of K kinne, and is thus related to antipeptone. See *albumose and peptone.

heterobiophorid (het'e-rō-bī-of'ō-rid), n. See

in function and position, from different embryonic or germ lavers.

Heterocardia (het e-rō-kār'di-ā), n. pl. [NL., Gr. ἐτερος, cther, + καρόια, heart.] A division of the gastroped Mollusca now regarded as equivalent to the suborder Docoglossa; the

Same as

heterocarpism (het-e-rō kär'pizm), n. [heterocarp(ous) + -izm]. The character of being heterocarpous.

heterocarpy (het'ë-rō-kär"pi), n. Same as *heterocarpism.

heterocaseose (het'e-rō-kā'sē-ōs), n. heteroalbumose derived from casein.

heterocerid (het-e-ros'e-rid), n. and a A member of the coleopterous family Heteroceridæ.

oceridæ

neterochiral (het'e-rō-ki'ral), a. [Gr. ἐτερος, other, + χείρ, hand, + -all.] Reversed as regards right and left, but otherwise identical in form and size; having the relations of an object to its image in a plane mirror.

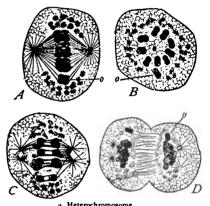
heterochlamydeous (het'e-rō-kla-mid'ē-us), a. [Gr. ἐτερος, different, + χλαμίς (χλαμνό-), a cloak, + -eous.] In bot., dichlamydeous, with the inner whorl of a different color from the outer. It applies to the most normal type of floral en.

the inner whorl of a different color from the outer. It applies to the most normal type of floral envelop, in which the calyx is green and the corolla of some other color. In plant development the heterochlamydeous stage succeeds the homochlamydeous.

heterochromatic (het "e-rō-krō-mat'ik), a. Containing or consisting of more than one color: opposed to monochromatic.—Heterochromatic photometry. See *photometry.

heterochrome (het'ē-rō-krōm), a. [Gr. ērepos, other, + χρωμα, color.] In psychol. optics, pertaining to or concerned with different colored lights or color-sensations: as, heterochrome brightness: heterochrome photometry.

brightness; heterochrome photometry.
heterochromosome (het e-rō-krō'mō-sōm), n.
[Gr. ετερος, other, + E. chromosome.] In cytol.,



A, primary spermatocyte in metaphase: B, equatorial plate, showing ten large terrads and one small one, the heterochromosome, at a, C, separation of the dyads; D, telophase, which is also a prophase of the second division. (From Wilson's "The Cell.")

a modified chromosome differing in form, size, and presumably also in function from all the other chromosomes in the same nucleus. T. H.

Montgomery, 1904. Montgomery, 1904.
heterochrosis (het'e-rō-krō'sis), n. [NL., ⟨Gr. ετερος, other, + χρῶσις, coloring.] Organic coloring which is different from that which prevails in the species; specifically, in ornith., an abnormal coloration of the plumage which may take the form of albinism, melanism, the intensification of the normal colors or, more rarely, the introduction of other colors.

heterochthon (het-e-rok'thon), n. [NL., ζ Gr. ἐτερος, other, + χθών, earth.] That element of the fauna of a given region which is evidently derived by immigration from another region: contrasted with *autochthon, 3.

Heterocœla (het'e-rō-sē'lä), n. pl. [NL., < Gr. ετερος, other, + κοίλος, hollow.] A suborder of calcareous sponges in which the coldefined flagellated chambers. It contains the families Leucasidæ, Sycettidæ, Grantiidæ, Heteropidæ, and Amphoriscidæ. Compare *Homo-

heterocœlous (het'e-rō-sē'lus), a. [Gr. ἐτερος,

other, + κοίλος, hollow.] 1. having the gastral layer discontinuous and restricted to chambers, as the *Heterocala*: opposed to *homocalous.—2. Having the ends of the vertebral centra concave in one plane and convex in the other, as the cervicals of birds; and the shared, arbitrals. saddle-shaped; ephippic.

Both ends of each vertebra are saddle-shaped, . . . a condition which may be called heterocælous.

Coues, Key to North Amer. Birds, p. 138.

H. a. Of or belonging to the family Heter-heterocomplement (het'e-rō-kom'plō-ment), n. A complement furnished by an animal of a terochiral (het'e-rō-ki'ral), a. [Gr. iτερος, species different from the one which yields the amboceptor.

heterocomplementophilic (het'e-rō-kom'plē-men-tō-fil'ik), a. [heterocomplement + Gr. \$\psi\lambda c_c\text{, loving, } + -ic.] Having reference to an affinity for heterocomplements.

Heterocotylea (het e-rō-cot-i-lō'ā), n. pl. [NL., (Gr. ἐτερος, other, + κοτίζη, cup.] An order of trematoids having one or several suckers at the posterior end. It includes several families among them the Polyanian eral families, among them the Polystomidæ, Gyrodactylidæ, and Microcotylidæ.

heterocyclic (het'e-rō-sik'lik), a. [Gr. ετερος other, + κίκλος, circle.] In chem., of a substance the molecule is believed to consist of a ring or continuous chain of atoms, containing in such a ring atoms of more than a single element. Thus atoms of motor what a single element. Thus the molecule of pyridine consists of a ring of six atoms consecutively united with each other, five of these atoms being of carbon and one of nitrogen (each carbon atom having also a hydrogen atom attached to it)—thus:

the anterior end the ectoderm cells contain re-fringent bodies and may give rise to four ter-minal wart-like papillæ. It contains the genera Conocyema and Microcyema, both parasitic in the renal sacs of cephalopods.

heterodesmotic (het'e-rō-des-mot'ik), a. [Gr. ετερος, other, + δεσμός, a band, + -ot-ic.] Noting nerve-fibers which connect dissimilar centers in the gray matter of the brain or spinal cord,

or connect a nerve-center with an end-organ.

heterodiphycercal (het'e-rō-dif' i-ser' kal), a.

[Gr. έτερος, other, + διφυής, of double nature, + κέρκος, tail, + -al.] In ichth., noting a form of the caudal fin in which the vertebral column is elongated in an upward curve and fringed above and below with fin-rays, but the rays of the upper lobe are much less devel-

oped than those of the lower.

heterodistyly (het'e-rō-dis'ti-li), n. [Gr. $\tilde{\epsilon}\tau\epsilon\rhoo\varsigma$, other, $+\delta\iota$ -, two, $+\sigma\tau\bar{\nu}\lambda o\varsigma$, pillar (style), $+-y^3$.] In bot., that form of heterostyly in which some of the flowers have long filaments and short styles, and others short filaments and long styles.

region: contrasted with *autochthon, 3.

The parasitic worms of the holarctic region are not found with the indigenous (autochthon) mammals or birds, but only with the strangers (heterochthon) that immigrated at a late period.

Amer. Nat., May, 1903, p. 350, ther, + λέλδος, branch.] Noting an anastomosis between terminal twigs derived from different arteries: opposed to *homocladic.

heteroclinous (het"e-rō-klāl'nus), a. Same as heteroclinous (het"e-rō-klāl'nus), a. Immune to cells or cell-products of an animal of a different species from the one which furnishes the immune serum. Lancet, April 4, 1903, p. 944.

of more than one kind, as in most mammals where incisors, canines, premolars, and molars may be present: opposed to *homodontism.

heteroclinous (het"e-rō-klī'nus), a. Same as heteroclinous (het"e-rō-kl-ne'sis), n. [NL.]

Cfr. ετερος, other, + κλάρος other, + κληρος, movement.]

The division of cells into daughter-cells which are different from one another in their heredi-

of more than one kind, as in most mammals where incisors, canines, premolars, and molars may be present: opposed to *homodontism.

heterodrome (het'e-rō-drōm), n. [Gr. ἐτερος, other, + ὁρόμος, a running, ⟨ δραμεῖν, run.] In physiol., a negative induction-current. Philos. Trans. Roy. Soc. (London), 1901, ser. B, p. 184.

heterodynamous (het e-rō-din'a-mus), a. [Gr. ἔτερος, other, + ὁιναμε, power.] Of or pertaining to the condition of dominance in respect to a given character in ancestral inheritance. a given character in ancestral inheritance. (See *inheritance.) When the cross-bred offspring of two parental races or varieties produce descendants of

which some are like one parental race, and others like the other, the parental races are said to be heterodynamous.

Correns proposes the terms "heterodynamous" and "homodynamous" to express that an organism is dominant or not dominant in respect of a given character.

Bateson and Saunders, Rep. Evol. Com. Roy. Soc., 1902, [I. 126.

Heterodynamous determinant. See *determinant. heteroform (het'e-rō-fòrm), a. Relating to the heteroproteoses in contradistinction to the protoproteoses. C. E. Simon, Physiological Chem., p. 175.—Heteroform ferment. See *ferment.

heterogamic (het'e-rō-gam'ik), a. Same as heterogamous. Science, Oct. 7, 1904, p. 472. heterogamous, a. 2. Illustrative of or characterized by heterogenesis, or alternation of generations.—3. Of or pertaining to heterogamy, or the marriage or pairing of unlike individuals.

dividuals.— Heterogamous mating. See *mating. heterogamy, n. 2. In biol., heterogenesis, or alternation of generations, considered as an alternation between sexual and asexual reproduction or between parthenogenesis and bi-sexual reproduction.—3. Marriage or mating or pairing between unlike individuals, as contrasted with homogamy, or the mating of like

with like.

heterogeneity, n. 2. A dissimilarity of structure in different parts of an organism.—Lithological heterogeneity, in geod., the commingling in glacial drift of materials derived from rock formations of different characters.—Physical heterogeneity, in geod. the mingling of unassorted constituents of unlike physical character: especially characteristic of glacial till where coarse and fine materials of all grades are deposited together in a mass. R. D. Salisbury, in Geol. Surv. of New Jersey, 1891, p. 48.

heterogenic (het'e-rō-jen'ik), a. Of other or different origin; characterized by heterogenesis.

H/C H heterogenicity (het'e-rō-jē-nis'i-ti), n. [heterogenicity (het'e-rō-je-nis'i-ti), n. [heterogenicity (het

from the alteration of smaltite.

heterogeny, n. 2. In biol., mixed parthenogenesis, the alternation of sexual and parthenogenetic generations. See normal *purthenoenesis.

Heterocystem (het'e-rō-sis'tē-ē), n. pl. [NL., c Gr. ετερος, other, + κύστις, a bag, + -ex.] In heteroglobulose derived from a globulin.

bot., a suborder of the blue-green algoe characterized by the presence of heterocysts (which see).

yenesis:

yenesis:

yenesis:

heteroglobulose (het'e-rō-glob'ū-lōs), n. A heteroglobulose derived from a globulin.

heterognath (het'e-rō-gnath), a. and n. I. a.

Of or pertaining to the suborder Heterognathi, fresh-water fishes of the tropics related to the

acterized by the present (which see).

heterocytotoxin (het'e-rō-sī-tō-tok'sin), n. [Gr. ἐτερος, other, + Ε. cytotoxin.] A cytotoxin which will cause the destruction of cells from an animal of an alien species. Science, May 2, 1902, p. 697.

heterodermatous (het'e-rō-der'ma-tus), a. heterodermatous (het'e-rō-der'ma-tus), a. heterodermatous other, + δέρμα(τ-), skin, + -ous.]

heterograph (het'e-rō-gomf), a. [Gr. ἐτερος tooth.] Having distance of the second of

heterogomph (het e-rō-gomf), a. [Gr. ετερος other, + γόμφος, peg. tooth.] Having dissimilar teeth, as the bristles of certain chætopodous worms.

A more important point, however, is the occurrence of heterogomph bristles at the interior border of the upper series of bristles in the toot.

Annals and Mag. Nat. Hist., Sept., 1902, p. 256.

heterogone, a. II. n. A heterogonous plant. heterogonous, a. 2. In biol., characterized by indirect development, with metamorphosis or alternation of generations.

heterogony, n.—Law of the heterogony of ends.

heterography, n. 2. The writing of another word instead of the one intended by the writer:

are different from one another in their hereditary tendencies and in the history for which each is predestined. Belief in heterokinesis is an essential part of Weismann's view of the nature of inheritance, although some authorities believe there is experimental evidence that all cell-division is into parts that are essentially alike, and that the differences in their history are due to the presence or absence of food within them and to their interactions among one another and with the external world.

heterokinesy, n. Action caused by something else. See autokinesy. Cudworth,

heterolateral (het e-rō-lat e-ral). a. [Gr. èrepoc, other, + L. latus (later-), side, + -all.]
Referring to opposite sides. Buck, Med. Handbook, II. 240.

heterolecithal (het'e-rō-les'i-thal), a. [Gr. ετερος, other, + λέκιθος, the yolk of an egg.] In embryol., having the food-yolk distributed unequally, as in telolecithal and perilecithal eggs: opposed to *homolecithal. Baldwin, Dict. of Philos. and Psychol., I. 476. heterolith (het'e-rō-lith), n. [Gr. ετερος, other, + λίθος, stone.] A concretion in the intesti-

nal tract of animals, not formed from mineral

matter. Heteroliths are principally found in the stomachs of ruminants and are due to the accumulation of masses of hair and dry vegetable matter. See *hair-ball. heterologous, a. 3. In researches in immunity, originating, as cells or serum, from an animal of a species different from the one undergoing immunization: thus, in immunizing a rabbit with the red blood-corpuscles of a goet the latter are of heterologous original. goat, the latter are of heterologous origin.

—Heterologous determinant, id, tumor. See *de-

- Heterologous users.

heterolysin (het-e-rol'i-sin), n. [heterolys-is +
-in².] A lysin which will cause the destruction of cells of animals of an alien species:
is), n. [ML., ζ Gr. ετερος, other,
used in contradistinction to *isolysin or *housed in contradistinction to *isolysin or *hostage of some worms of the

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motystn.

heterolysis (het-e-rol'i-sis), n. [NL., < Gr. ετερος, other, + λίσις, dissolution.] The destruction of cells by heterolysins. See *autolysis. Vaughan and Novy, Cellular Toxins,

heterolytic (het 'e-rō-lit'ik), a. [heterolysis (-lyt-) + -ic.] Of or pertaining to heterolysis or the heterolysins.

heteromaton (het-e-rom'a-ton), n. [Gr. ετερος, other, + *ματός, moving, moved: see automaton.] A thing that is moved by something

heteromecic (het'e-rō-mē'sik), a. [Gr. ἔτερος, other, different, + μῆκος, length.] Having different lengths (or values).— Heteromecic num-

heterometabolic (het'e-rō-met-a-bol'ik), a.

Same as heterometabolous.

Heteromi (het-e-rō'mi), n. pl. [NL., \langle Gr. êτερος, other, different, + $\dot{\omega}\mu o\varsigma$, shoulder, upper arm.] An order or suborder of fishes which comprises the Notacanthidæ and related families; eel-like fishes having a short girdle inserted behind the head and spines in the dorsal fin.

Heteromonadidæ (het e-rō-mō-nad i-dē), n. pl. [NL., < "Heteromonas" (-monad-), a genus (†), +-idæ.] A family of flagellate Protozoa which consists of small colorless monads having one consists of small colorless monads having one or two accessory flagella in addition to the chief flagellum. They are often colonial upon a stalk. Reproduction is by longitudinal flasion. Among the genera included are Monas, Dendromonas, and Anthophysa. Heteromonadina (het'e-rō-mon-a-di'nä), n. pl. [NL.] Same as *Heteromonadidæ. heteromorph, n. 2. A decorative design representing a certain object, but modified in character by representing another object at the same time, as, for instance, flower designs the branches of which represent animals. I propose to adopt the term heteromorph for a confu-

the branches of which represent animals.

I propose to adopt the term heteromorph for a confusion with one another of two or more different skeucmorphs, or with the amalgamation of any two or more biomorphs, or with the combination of any skeucmorph with any biomorph. Haddon, Evolution in Art, p. 192.

heteromorphic, a. 3. Of or pertaining to heteromorphism, in any sense of that word. T. H. Morgan, Regeneration, p. 24.

heteromorphism, n. (d) In biol., the property of replacing lost parts by new parts which are different from those that have been lost. See *heteromorphosis. heteromorphosis (het*e-ro-morphosis.) n.

heteromorphosis (het 'e-rō-môr' fō-sis), n. [NL., < Gr. έτερος, other, + μόρφωσις, formation.] In biol.: (a) The replacement of a lost part by a new part that is different from the part that has been removed; neomorphosis.

The processes of heteromorphosis—that is, the transformation or substitution of one organ for a morphologically different one by means of certain external influences—force us to the same view.

J. Loeb, Compar. Physiol. of the Brain, p. 203.

When the new part is different from the part removed the process has been called by Loeb heteromorphosis.

T. H. Morgan, Regeneration, p. 24.

(b) The replacement of a lost part by a new part that has its axes reversed as compared heterophthalmy (het e-rof-thal'mi), n. Same with the old part of which it is a mirror image. as *heterophthalmia. T. H. Morgan, Regeneration, p. 25.

heterolalia (het'e-rō-lā'li-ā), n. [Gr. ἐτερος, heteromorphous, ... – other, + -λαλια, 〈 -λαλος, 〈 λαλεῖν, talk.] A phic, 3. form of aphasia in which the words uttered are not those in the mind of the speaker.

Heteromyia (het'e-rō-mī'i-dē), n. pl. [NL. Heteromys, the type genus, +-idæ.] A family of rodents which comprises the kangaroo-rats. The name resolution of rodents which comprises the kangaroo-rats. The name resolution of rodents which comprises the kangaroo-rats. pocket-mice, and their allies. The name replaces Dipodidæ, which is not available. J. A. Allen, 1893.

Heteronemertini (het'e-rō-nō-mer-ti'nī), n. pl. [NL., ζ Gr. ετερος, other, + NL. Nemertini.] An order of nemerteans in which the lateral nerves are in the dermal muscles outside the circular muscles, and the body-wall consists of ectoderm, dermis, an outer longitudinal layer of muscles, a circular and an inner longitudinal muscular layer. It includes the families Eupoliidæ and Lineidæ. Compare *Protonemertini, *Mesonemertini, and *Metanemertini.

nemerum.

heteronephrolysin (het e-rō-nef-rol'i-sin), n.
[Gr. ἐτερος, other. + Ε. nephrolysin.] A nephrolysin which is directed against the renal cells of animals of a different species.

heteronereid (het 'e-rō-nē' rē-id), n. and a. I. A heteronereis.

heteronomous, a. 3. Subject to or governed by different principles or laws.—4. In zoöl., made up of dissimilar segments or metameres: said

of annelids or arthropods in which the various metameres differ in structure through the sup-pression of certain organs and the unusual development of others. Opposed to *homono-

vergent modification in parts that exhibit general homology or homonomy. When the serially homologous, or homonomous, segments of an annelid are modified in different ways they may be said to exhibit heteronomy in so far as their modifications are under consideration. Heteronomy is the secondary, or adaptive, complication of homonomy.

Heteronymous diplopia. Same as crossed *diplopia. — Heteronymous images. See *timage.

heteroparthenogenesis (het e-rō-par then-ō-jen e-sis), n. [Gr. επερος, other, + NL. parthenogenesis in which the unfertilized eggs produce males and females: contrasted with *homopar thenogenesis, or the production of only one sex thenogenesis, or the production of only one sex from unfertilized eggs. Parthenogenetic fe-male animals which produce both males and females are called sexupara. See normal *par-thenogenesis and *sexupara.—2. Mixed par-thenogenesis, or the alternation of sexual and parthenogenetic generations. See normal narthenogenesis.

Heterophlebia (het e-rō-flē bi-g), n. [NL., ζ Gr. ἐτερος, other, + φλεψ (φλεβ-), vein.] Å genus of fossil dragon-flies from the Jurassic lithographic slates of Bavaria.

heterophonia.

as *heterophthalmia. heterophyletic (het/er-ō-fi-let'ik), a.

II. a. Of or pertaining to a heteronereis: s, a heteronereid condition. Science, April 14,

genus Nereis: so named on the erroneous supposition that they are of a distinct genus. Compare *heterosyllis.

Compare *heterosyllis.

In many species of Nerels, for instance, those segments containing the generative products undergo more or less extensive changes (at maturity) while the anterior ones remain unaltered. The body of the ripe Nerels is then distinguishable into an anterior non-sexual region; and so great are these changes in certain species that the mature worms were for a long time believed to belong to a different genus, and received the name Heteronereis.

Camb. Nat. Hist., IL 276.

A. non-sexual region; B. sexual, modified region. Natural size. (From "Cambridge Natural History.")

B

heteronomously (het-e-ron'o-mus-li), adv. In

a heteronomous manner.

heteronomy, n. 3. In biol., the state of divergent modification in parts that exhibit

heterophony (het-e-rof'ō-ni), n. Same as

heterophoric (het e-rō-for'ik), a. Related to or affected with heterophoria.
heterophthalmia (het e-rō-thal'mi-ä), n. [NL. ζ Gr. ετερος, other, + ὀφθαλμός, eye.] A want of similarity, as in color or in the direc-tion of the axes, in the two eyes. $\hat{\epsilon}\tau\epsilon\rho\sigma_{c}$, other, + $\phi\bar{\nu}\lambda\sigma_{v}$, tribe, family.] 1. Of or belonging to different groups.—2. In biol., different in ancestry, but alike in appearance; convergent; isomorphic.

A few fundamental characters are better indications of the affinities of a given group of birds than a great number of agreements if these can be shown to be cases of isomorphism or heterophyletic, convergent analogy.

Encyc. Brit., XXVI. 256.

Heteropia (het-e-rō'pi-ä), n. [NL., \langle Gr. ετε-ρος, other, $+ \dot{\omega} \dot{\psi} (\dot{\omega} \pi^-)$, eye, face.] The typical genus of the family Heteropidæ. Carter,

Heteropidæ (het-e-rop'i-dē), n. pl. [NL., < He-teropia + -idæ.] A family of heterocœlus Cal-carea which have a poriferous dermal cortex and subdermal sagittal triradiate spicules: an articulate chamber skeleton may or may not be present. It contains the genera Heteropia, Grantessa, and Vosmæropsis.

heteroplasm (het'e-rō-plazm), n. [Gr. ἔτερος, other, + πλάσμα, anything formed.] Any heterologous tissue. See heteroplasia. heteroplastid (het'e-rō-plas'tid), n. [Gr. ἔτερος, other, + E. plastid.] An organism consisting of numerous cells differing from one or other instruments. another in structure: opposed to *homoplastid.

heteroplasty (het'e-rō-plas'ti), n. [Gr. ἐτερος, other, + πλαστός, Κπλάσσευ, form.] 1. A surgical operation, for the restoration of a lost part, in which the new skin or other tissue is taken from another individual.—2. Abnormal formation of tissue; heteroplasia.

heteropodal (hete-rop'o-dal), a. In neurol., of or pertaining to nerve-cells which have branches or processes of different kinds: opposed to *homoiopodal. Baldwin, Dict. of Philos. and Psychol., II. 155.

Heteropolar dynamo, a generator or motor the armature windings of which in revolving pass successively poles of opposite magnetization.

poles of opposite magnetization. Heteropora (het-e-rop'ō-rä), n. [NL., \langle Gr. $\varepsilon \tau \varepsilon \rho \sigma \varepsilon$, other, $+ \pi \delta \rho \sigma \varepsilon$, a pore.] A genus of cyclostomatous Bryozoa of the family Cerioporids which have ramose or massive zoaria, zoecia with rounded apertures, and abundant interstitial tubes. It abounds in the Jurassic and Cretaceous rocks and has existed to the present time.

heteroproteose (het'e-rō-prō'tē-ōs), n. [Gr. ετερος, other. + Ε. proteose.] A heteroalbumose derived from any albumin in the narrower sense of the term. See *proteose and *alhumin.

It appears that the hetero-proteose molecule is about ve or six times the size of the molecule of proto-prosese.

Encyc. Brit., XXXI. 720.

heterorhabdic (het'e-rō-rab'dik), a. [Gr. ἐτε-ρος, other, + ράβδος, a rod.] Having the gill-filaments unlike in size, as in certain mollusks. Compare *homorhabdic. Lankester.

Compare *nomorhabdic. Lankester.

The filaments of the same gill-lamella may be arranged in a flat, uniform series, or the lamella may be thrown into vertical folds or plice. . . The filament that occupies the bottom of the depression between two successive plice of a plicate lamella is in most species of greater size than the others. It will be spoken of as the principal filament, the others as ordinary filaments. Homorhabdic gills are those which exhibit the above-mentioned differentiation into principal and ordinary filaments.

Philos. Trans. Roy. Soc. (London), 1903, ser. B, p. 154.

heteroscope (het'e-rō-skōp), n. [Gr. ἐτερος, other, + σκοπεῖν, view.] An instrument for determining the degree of heteroscopy. Optical Jour., March, 1904, p. 351.

heteroscopy (het-e-ros'kō-pi), n. [Gr. ἐτερος, other, + -σκοπία ⟨ σκοπεῖν, view.] Inequality of vision in the two eyes.

heterosexual (het e-rō-sek sū-al), a. [Gr. ετε-ρος, other, + L. sexus, sex, + - all.] Relating to the opposite sex. Buck, Med. Handbook, V. 134.

V. 134.

Heterosporium (het'e-rō-spō'ri-um), n. [NL. (Klotzsch, 1832), < Gr. ἐτερος, other, + σπορά, seed (spore).] A genus of hyphomycetous fungi. They have short simple or branched conidiophores. usually forming a layer on the surface of the matrix, and the spores are dark-colored, 3- or more celled, and roughened with warts or spines. Some species are regarded as the cause of plant-diseases. H. echinulatum, a widely distributed species, is said to cause the fairy-ring spot of carnations.

heterospory (het-e-ros'pō-ri), n. [heterosporous + $-y^3$.] The condition of being heterosporous.

heterostachyous (het'e-rō-stā'ki-us), a. έτερος, other, + στάχις, an ear or spike of corn, + -ous.] In bot., having the flowers bisexual and the sexes in different spikes: said of species of Corn. cies of Carex.

Where a species with normally gynsecandrous spikes ppears as inseparable from others which are truly heterotachyous.

Amer. Jour. Sci., Dec., 1903, p. 452.

Heterosteus (het-e-ros'tē-us), n. (NL., ζ Gr. ετερος. other, + οστέον, bone.] A genus of arthrodirous fishes of very large size, similar to Homosteus, but with enormous anterior processes on the dorsolateral body-plates. It oc-

cesses on the dorsolateral body-plates. It occurs in the Upper Devonian.

Heterostichus (het.e.-ros'ti-kus), n. [NL., < Gr. ἐτερος, other, + στίχος, line.] A genus of blennies found on the coast of California. They are characterized by the scaly body and forked tail.

heterostracan (het.e.-ros'tra-kan), a. and n.

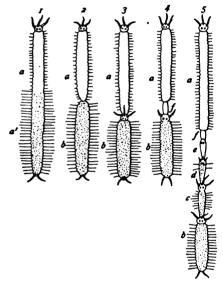
I. a. Of or pertaining to the Heterostraci.

II. n. One of the Heterostraci.

Heterostraci (het-e-ros'tra-sī), n. pl. [NL., < Gr. ἐτερος, other, + ὁστρακον, shell.] An order of ostracodermous fishes. They have an exoskeleton of shagreen, plates or scales without bone-cells, each plate consisting of three layers, and bodies without paired appendages. They are all of Paleozoic age. heterostracous (het-e-ros'tra-kus), a. Having the structure of or pertaining to the Heterostracous in the aumisian Rep., 1890, p. 407. Smithsonian Rep., 1890, p. 407. heterotonous (het-e-rot' $\bar{\phi}$ -nus), a. [Gr. $\hat{\epsilon}$ τέρος, tone.] In music, of scales or chords, having tones that are unlike. heterotristyly (het'e-r $\bar{\phi}$ -tris'ti-li), n. [Gr. $\hat{\epsilon}$ τέρος, other, + τρι-, three, + στ $\hat{\nu}$ λος, pillar (style), + y³.] That form of heterostyly in which there are three kinds of flowers, namely, those

heterostylous (het-e-rō-stī'lus), a. Same as

heterostyled. heterostyly (het-e-rō-stī'li), n. Same as het-



Heterosyllis.

Heterosyllis.

Diagram illustrating the various stages in the asexual formation of a chain of zoōids. (Modified from Malaquin.)

1. heteronereid or heterosyllid stage: a, non-sexual, a', sexual region of the body, with modified parapodia. 2, Syllis, the hinder sexual region; b is similarly modified, and will separate from the parent zoōid, a, and become an independent zoōid, a, holoyius; the hinder zoōid, b, derelops a head by budding before separation, 4, Autolyins, etc.: a zone of budding, f, makes its appearance in front of the head of b, and by its growth will give rise to a series of new segments in the middle of the body. 5, Myrianida, Autolyius; the hinder zoōid, and become grouped so as to form three individuals, c, d, e, b is the hindmost zoōid, which is either formed from the hinder segments of the parent zooid or is produced by budding, like c, d, e. (From Cambridge Natural History.)

In some genera [of the family Syllidæ], there occur changes quite similar to those characterising "Heteronereis"—that is, the posterior segments in which the genital organs exist become altered, so that the worm consists of two distinct regions, and is termed a "Heterosyllis."

Camb. Nat. Hist., II. 278.

heterotelic (het e-rō-tel'ik), a. [Gr. ἐτερος, other, + τέλος, end.] Directed upon or subserving an external or foreign end: opposed to *autotelic. Baldwin, Diet. of Philos. and Psychol., I. 96.

heterothallic (het'e-rō-thal'ik), a. [Gr. έτερος, other, + $\theta a \lambda \lambda \delta c$, sprout, shoot, + -ic.] Having the zygospores formed only as the result of the conjugation of hyphæ from two different strains: said of zygospore-forming plants. heterotherm (het'e-rō-therm), n. [Gr. έτερος, other, + $\theta \epsilon \rho \mu \eta$, heat.] A cold-blooded animal, or one whose bodily temperature differs little from that of the surrounding medium and changes with it.

changes with it.

heterothermal (het'e-rō-ther'mal), a. [Gr. $\epsilon \tau \epsilon \rho \sigma_c$, other, $+ \theta \epsilon \rho \mu \eta$, heat, + -al.] Having blood which varies in temperature with the tempera-

ture of the environment; pecilothermal: said of cold-blooded animals such as reptiles. Opposed to *homæothermal.

heterothermic (het'e-rō-ther'mik), a. [As heterotherm + -ic.] 1. Noting a condition of water, air, or other liquid in which warm and dry air are very much mixed without having had time to come to an equilibrium.—2. Of or pertaining to heterotherms or cold-blooded animals; cold-blooded.

Another class of organisms, representatives of which are never found among birds or mammals, are called heterothermic—cold-blooded—animals; creatures of variable temperature, since, in their normal physiological state, their individual temperature follows closely the changes in the atmosphere about them.

Smithsonian Rep., 1890, p. 407.

there are three kinds of flowers, namely, those having a long style with medium and short stamens, those having a medium style with long and short stamens, and those having a short style with long and medium stamens.

Prostylism.

Heterosyllis (het'e-rō-sil'is), n. [NL., < Gr. heterotrophic (het'e-rō-trof'ik), a. [Gr. ετερος, other, + Syllis.] See the extract.

Not self-sustaining; dependent upon others for food. Since all animals depend, either immediately or ultimately, upon plants for food, they are sometimes termed heterotrophic, in contrast with the autotrophic or self-sustaining plants. See *autotrophic.

Rep. Brit. As'n Advancement of Sci., 1901, p. 820. heterotropia (het'e-rō-trō'pi-ā), n. [NL., < Gr. έτερος, other, + τρόπος, a turning, < τρέπειν, turn.] In ophthalmol., strabismus or squint. Optical Jour.. March, 1904, p. 348. heterotropy (het-e-rot'rō-pi), n. [Gr. έτερος, other, + -τροπα, < τρέπειν, turn.] In embryol., same as *anisotropy, 2 (which see). heterotype (het'e-rō-tīp), a. [Gr. έτερος, other, + τύπος, type.] Of a different type or of different types.—Heterotype division or mitosis, that form of mitotic or karyokinetic cell-division in which the chromosomes undergo a precoclous longitudinal splitting and form more or less regular rings. Flemming, 1887.



Heterotype Division in Spermatocytes of Salamander. A, first division in metaphase, showing heterotype rings; B, anaphase, longitudinal splitting of the daughter-loops.

(From Wilson's "The Cell.")

heterotypic (het'e-rō-tip'ik), a. [Gr. ἐτερος, other, different, + τυπικός, typical.] Relating to the first nuclear division occurring after mitapsis: so called because it is strikingly different from the ordinary mitages. different from the ordinary mitoses (nuclear divisions). Cook and Swingle.

heterotypical (het/e-ro-tip/i-kal), a. Same

as *heterotypic.

heteroxanthin (het'e-rok-san'thin), n. [Gr. $\epsilon \tau \epsilon \rho o \epsilon$, other, + E. xanthin.] A xanthin derivative, $C_6H_6N_4O_2$, which contains one methyl group. It has been found in the urine.

heteroxenter, + E. xanom....
ative, C₆H₆N₄O₂, which contains one matrix (perform the number of the perform the number of the performance of the performance of the performance of the perform the number of the performance of the has really proved with a different proposition; the opinion that one has proved what one has not proved: a fault of logic substantially the same as an ignoratio elenchi. G. S. Hall, Adolescence, II. 533.

heterozonal (het'e-rō-zō'nal), a. [Gr. ἐτερος, other, + ζώνη, belt (zone), +-al.] Belonging to different zones: said of the faces of a crystal. Compare tautozonal.

heterozygosis (het'e-rō-zī-gō'sis), n. [NL., ζheterozyg(ote) + -osis.] Development from a heterozygote.

heterozygote.

Special attention has been given to the illustrations of reversion following heterozygosis.

W. Bateson, Exper. Studies, IL 4.

animal or plant which combines the characters of two dissimilar parents; a mule-form.

Consequently if Aa's breed together, the new A gametes may meet each other in fertilization, forming a zygote AA, namely, the pure A variety again. Similarly two a gametes may meet and form aa, or the pure a variety again. But if an A gamete meets an a, it will once more form Aa, with its special character. This Aa is the hybrid or "mule" form, or, as I have elsewhere called it, the heterozygote, as distinguished from AA or aa the homozyotes. homozygotes.

W. Bateson, Mendel's Prin. of Heredity, p. 23.

Of or pertaining to a fertilized egg,

II. a. Of or pertaining to a fertilized egg, or to origin from a fertilized egg, which is formed by the union of two opposite allelomorphic germ-cells: as, heterozygote characters. Bateson and Saunders, Rep. Evol. Com. Roy. Soc., 1902, I. 127.

heterozygous (het'e-rō-zī'gus), a. [Gr. ἐτερος, other, + ⟨υ⟩όν, yoke.] 1. Of or pertaining to germ-cells with opposite allelomorphic characters. Bateson and Saunders, Rep. Evol. Com. Roy. Soc., 1902, I. 147.—2. Of or pertaining to characters which will not become fixed or constant under continual selection.—Heterozygous forms, certain forms which, as has long been known to breeders, cannot be fixed by selection.

heth (chāt, chāth), n. [Heb. hēth, hēt. From the corresponding Phen. name was derived the name of the Greek ½τα, used for long E.] The eighth letter (Π) of the Hebrew alphabet, ccresponding in sound to the Scotch ch in loch.

responding in sound to the Scotch ch in loch. Its numerical value is 8.

for food. Since all animals depend, either immediately or ultimately, upon plants for food, they are sometimes termed heterotrophic, in contrast with the autotrophic or self-autaining plants. See *autotrophic.

The root-difference between plants and animals is one of nutrition. Plants are autotrophic, animals heterotrophic.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 820.

heterotropia (het'e-rō-trō'pi-\bar{a}), n. [NL., \
Gr. \(\tilde{\text{trepoc}}\), other, + \(\tau\theta\t invertebrate fossils and remains of ferns and cycads.

heubachite (hoi'bach-īt), n. [Named from (G.)

Heubachthal in Baden.] A hydrated oxid of cobalt and nickel occurring as a black incrustation on barite.

heumite (hā'om-it), n. [Heum, in Norway, + -ite².] In petrog., a name given by Brögger (1898) to a dark-colored aphanitic rock without phenocrysts, composed of abundant soda-orthoclase or soda-microcline and barkevikite, with considerable biotite and a small amount of nephelite, sodalite, and diopside, and acces-sory minerals.

heuristic, a. II. n. Same as heuretic.

Many analogies of this change are, and more may be, drawn from the metamorphosism of insects, and here biology supplies the best heuristic.

G. S. Hall, Adolescence, II. 331.

heveene (hê'vệ-ên), n. [Herea + -ene.] An amber-yellow oil, C₁₅H₂₄, belonging to the sesquiterpenes; the least volatile product of the destructive distillation of eaoutchouc and gutta-percha. It boils at 255-265° C.

heven, n. A simplified spelling of heaven.
hevy, a. and n. A simplified spelling of heaven.
Hewers of wood and drawers of water, persons who
perform the humblest kind of work; drudges; slaves.

cutes of a compound.

hexabasic (hek-sa-bā'sik), a. [Gr. $\xi\xi$, six, + $\beta \dot{a}\sigma c_{\xi}$, base, + -ic.] Having a basicity of six; capable of combining with a proportion of base or metal equivalent to six atoms of hydrogen.

hexacanth (hek'sa-kanth), a. [Gr. $\xi\xi$, six, + $\dot{a}\kappa a\nu\theta a$, thorn.] Having six hooks: as, the hexacanth embryo of some tapeworms.

hexacanthous (hek-sa-kan'thus), a. Same as *hexacanth.

Special attention has been given to the illustrations of reversion following heterozygosis.

With the others the (heterotherms) there is a temperature which is correspondingly low.

Smithsonian Rep., 1900, p. 412.

heterothermal (het e-rō-ther mal), a. [Gr. εξ, six. heterozygote (het e-rō-zī gōt), n. and a. [Gr. εξ, six. hexacarbon (hek-sa-kār bon), a. [Gr. hexacarbon (hex-sa-kār bon), a. [Gr. hexacarbon (hex-

hexachlorid (hek-sa-klō'rid), n. [Gr. ɛ̃ɛ, six, + E. chlorid.] In chem., a compound containing six atoms of chlorin united to a more electropositive element or radical: as, tungsten hexachlorid (WCl6). Jour. Soc. Chem. In-

dustry, XI. 599. hexachordal (hek-sa-kôr'dal), n. [hexachord + -all.] Pertaining to or consisting of hexa-

chords

hexacid (heks-as'id), a. [Gr. \(\varepsilon\); six, + E. acid.]
Used, in contrast with *hexabasic, to denote that a substance is capable of combining with

six equivalents of an acid.

hexacompound (hek-sa-kom'pound), n. A compound containing six similar atoms or

groups.

groups.

hexacontahedron (hek'sa-kon-ta-hē'dron), n.

[dr. $\dot{\epsilon}\xi\dot{\gamma}\kappa\rho\nu\tau a$, sixty, + $\dot{\epsilon}\delta\rho a$, seat, base.] A solid of sixty sides.— Deltoidal hexacontahedron, a 60-faced solid, formed by a deltoidal bossing of the icosahedron and reciprocal to the small rhombicosidodecahe-

Hexacrinus (hek-sak'ri-nus), n. [NL., ζGr. έξ, six, + κρίνον, a lily (see crinoid).] A genus of camerate Crinoidea belonging to the family Hexacrinids. Hexacrinus (hek-sak'ri-nus), n. Hexacrinidæ. It is characterized by three basal plates and five very large and elongate radials with a similar anal plate. It is found in the Devonian of Europe and North plate. It America.

hexact, a. II. n. Same as *hexactine. hexactine (hek-sak'tin), n. [Gr. εξ, six, (ἀκτιν-), ray.] In the nomenclature of the spicular elements of sponges, a six-rayed or tri-axial form typically expressed as six arms at axiai form typically expressed as six arms at right angles to one another. The hexactine is the fundamental form in the silicious skeletons of the Hexactinelida and is susceptible of modification into a vast variety of shapes, anchors, umbels, pine-trees, fish-hooks, roseites, etc. The fusion of the arms of adjacent hexactines produces a latticed supporting skeleton in some orders of Hexactinelida.

hexactine (hek-sak'tin), a. [For *hexactinine, Gr. $\hat{\epsilon}\xi$, six, $+\hat{a}\kappa\tau\hat{\iota}\varsigma$ ($\hat{a}\kappa\tau\hat{\iota}\nu$ -), ray, $+\cdot\hat{a}\kappa^{-1}$.] 1. Having six rays: same as hexactinal.—2. Having the characters of or pertaining to a hex-

actine.—3. Hexactinellidan.

hexactinellidan (hek-sak-ti-nel'i-dan), a. and

n. I. a. Pertaining to or characteristic of the Hexactinellida.

II. n. Any sponge of the order Hexactinellida.

hexactinian (hek-sak-tin'i-an), a. and n. I. a. Pertaining to or having the characters of the Hexactiniæ; having six mesenteries or tenta-cles, or a multiple of that number, as some anthozoans.

II. n. Any anthozoan of the group Hexac-

hexad. I. n. 3. A hexagon.

Given two opposite points of a regular hexad (namely, the corners a₁, a₄, of a regular hexagon).

Harkness and Morley, Analytic Functions, p. 25.

II. a. Having a combining power equivalent to six times that of hydrogen. Same as hexavalent and sexivalent.

hexadecane (hek-sa-dek'ān), n. [Gr. έξ, six déka, ten, + ane.] A colorless compound, $\mathrm{CH_3}$ ($\mathrm{CH_2}$)₁₄ $\mathrm{CH_3}$, contained in petroleum. It forms pearly lustrous leaflets, which melt at 19–20° C. and boil at 287.5° C. Sometimes called

hexadecoic (hek'sa-de-kō'ik), a. [Gr. έξ, six, + $\delta k \kappa a$, ten, + -o - + -ic.] Containing sixteen carbon

atoms. — Hexadecoic acid. Same as palmitic acid. hexadecyl (hek-sa-dē'sil), n. [Gr. $\bar{\epsilon}\xi$, six, + $d\bar{\epsilon}\kappa a$, ten, + - yl.] The radical $C_{16}H_{33}$. It is derived from hexadecane, and is also called cetul.

hexadecylic (hek'sa-dē-sil'ik), a. [hexadecyl + -ic.] Pertaining to hexadecyl or hexadecane. hexadrachm (hek'sa-dram), n. [Gr. έξάδραχμος, of the value of six drachmas, $\langle \hat{\epsilon} \xi, \sin x, + \delta \rho \alpha \chi \mu \eta,$

drachma.] An ancient Greek gold coin of the value of 6 drachmas.

hexaëdral (hek-sa-ē'dral), a. See hexahedral. hexagon, n.—Brianchon hexagon, a hexagon circum; scribed about a conic. See hexagram, 2.—Lemoine hexagon, the hexagon whose vertices are the 6 intersections with the sides of a triangle of the parallels to the sides drawn through the symmedian point (the Lemoine point K).—Pascal hexagon, a hexagon inscribed in a conic. See hexagram.

Hexagonal number. See *number.
hexagonite (hek-sag'ō-nīt), n. [hexagon + -ite².] A pink variety of tremolite from St.
Lawrence county, New York, supposed at first to be a new hexagonal species. It contains a small amount of manganese.

and Halisarcidæ. It includes sponges with large hexagonize (hek-sag'ō-nīz), v. t.; pret. and hexaradial (hek-sa-rā'di-al), a. [Gr. ¿ś, six, and saccular ciliated chambers with simple canals, the skeleton composed of soft horny fibers, sometimes accompanied by horny spicules. The skeleton may be absent.

The skeleton may be absent. hexagonized. Proceedings of the skeleton may be absent. hexagonized. N. E. D. + -ize.] To change into a hexagon; make hexagonal. N. E. D.

hexagonal. N. E. D.

Hexagramminæ (hek sa-gra-mī'nē), n. pl.
[NL., (Hexagrammos + -inæ.] A subfamily of fishes typified by the genus Hexagrammos.

hexahedrite (hek-sa-hē'drīt), n. [hexahedr-on + -ite².] A meteoric iron having a cubic or + -ite².] A meteoric iron having a cubic or Lite and cleavage. Iron meteoric iron having a cubic or Lite and cleavage. Iron meteoric iron having a cubic or Lite and cleavage. Iron meteoric iron having a cubic or Lite and n. [Gr. ¿ɛ̄, six, + dp/th, beginning (used for a vascular strand).]

I. a. Having six strands: as, a hexarch stele.

II. n. In bot., a stele which has six plerome than the octahedrites. See *meteorite. hexahemeron (hek-sa-hem'e-ron), n.

hexahydrate (hek-sa-hī'drāt), n. [Gr. \$\vec{\varepsilon}\$, six, + E. hydr(ogen) + -aie\vec{1}.] In chem., a compound containing six molecules of water, as crystallized calcium chlorid or calcium chlorid hexa-

hydrate (CaCl₂,6H₂O). hexahydrated (hek-sa-hī'drā-ted), a. In chem., containing six molecules of water, as the mineral carnallite, which is hexahydrated potassium-magnesium chlorid (KCl.MgCl₂. 6H₂O). G. Lunge, Sulphuric Acid, II. 44.

hexahydrocarvacrol (hek'sa-hi-drō-kär'va-krol), n. [Gr. $\hat{\epsilon}\xi$, six, + E. hydro(gen) + carvacrol.] A colorless oily compound, CH₃C₆H₉

(C₃H₇)OH, formed by the action of hydrogen on carvacrol. It boils at 220° C.

hexahydrothymol (hek'sa-hī-drō-tī'mol), n.
[Gr. ēɛ̄, six, + E. hydro(gen) + thymol.]

compound, CH₃.C₆H₉(C₃H₇)OH, formed by the action of hydrogen on thymol. It closely resembles hexahydrocarvacrol in properties.

hexaicosane (hek-sa-ī'kō-sān), n. [Also hexeinexalcosane (nex-sa-1 ko-san), n. [Also nexet-kosane, and erroneously called hexacosane, hexakosane; Gr. έξ, six, + είκοσι, twenty, + -ane.] A soft, waxy compound, C₂₆H₅₄, closely resembling paraffin. It melts at 44° C. hexakisoctahedral (hek sa-kis-ok-ta-he'-dral), a. See *hexoctahedral.

hexakistetrahedral (hek'sa-kis-tet-ra-hē'-

dral), a. Of or pertaining to a hexakistetrahedron: same as *hexatetrahedral.

hexakistetrahedron (hek sa-kis-tet-ra-hē'dron), n. [Gr. $\xi\xi\acute{a}\kappa c$, six times, $+\tau\acute{\epsilon}\tau\rho a$, four, + $\acute{\epsilon}\delta\rho a$, base.] In crystal., the hemihedral form of the hexakisoctahedron; same as hexatetrahedron

hexakosane. n. See *hexaicosanc. hexaldehyde (hek-sal'dē-hīd), n. [Gr. £5, six, + E. aldehyde.] A colorless liquid, CH₃(CH₂)₄ CHO, prepared by the distillation of a mixture of calcium formate and calcium caproate.

boils at 128° C. Also called hexyl aldehyde, caproic aldehyde, and hexanal.

hexamere (hek'sa-mēr), n. [Gr. έξ, six, + μέρος, part.] In the nomenclature of the skeletal parts of reticulate sponges, or Dictyometridae. spongidæ, a reticulum mesh of the sixth order.

hexamerism (hek-sam'e-rizm), n. [hexamer-ous -ism.] The condition or state of having the organs arranged according to the number six or to a multiple of that number, as in some anthozoans, especially corals. Science, July 17, 1903, p. 80.

Hexameroceras (hek'sam-e-ros'e-ras), n. [Gr. έξαμερής, of six chambers, + κέρας, horn.] A Silurian genus of nautiloid Cephalopoda, belonging to the family Trimeroceratidæ, and characterized by having six lateral sinuses in the aperture.

the aperture.

hexamethylated (hek-sa-meth'i-lāt-ed), p. a.

[Gr. $\dot{\epsilon}\xi$, six, + E. methyl + -ate¹ + -ed².] Containing six methyl groups or radicals. Buck, Med. Handbook, VI. 785.

hexamethylene (hek-sa-meth'i-lēn), a. [Gr. $\dot{\epsilon}\xi$, six, + E. methylene.] Containing six methylene (CH₂) groups.

hexanephric (hek-sa-nef'rik), a. [Gr. $\dot{\epsilon}\xi$, six, + vepoc, kidney.] Having six Malpighian vessels, as nine of the orders of insects.

sels, as nine of the orders of insects.

hexaped (hek 'sa-ped), n. [Gr. \(\tilde{\xi}\xi\), six, + L. pes [(ped-), foot.] See hexaped.

(pea-), 100t.] See nexapoa. hexaphase (hek'sa-fāz), a. [Gr. $\hat{\epsilon}\xi$, six, + $\phi \hat{a}ag$, phase.] Having six phases: said of certain types of alternating currents. hexapoda! (hek-sap' $\hat{\phi}$ -dal), a. [hexapod + -al'.]

Same as hexapodous.

hexaprotodont (hek-sa-prō'tō-dont), a. [Gr. $\hat{\epsilon}\xi$, six, $+\pi\rho\bar{\omega}$ roc, first, $+\dot{\omega}\delta\omega'\varsigma$ ($\dot{\omega}\delta\omega\tau$ -), tooth.] Having six lower incisors; resembling or having the characters of Hexaprotodon, a genus of extinct hippopotamuses distinguished by the presence of six lower incisors.

The lily has the same regular typical form as the hexa-radial coral or anemone.

Haeckel (trans.), Wonders of Life, p. 171.

Same hexasepalous (hek-sa-sep'a-lus), a. [Gr. έξ, six, + NL. sepalum, sepal, + -ous.] In bot., having six sepals.

hexastigm (hek'sa-stim), n. [Also hexastim; Gr. $\dot{\epsilon}\xi$, six, $+\sigma\tau'\gamma\mu a$, a point, dot.] A polystigm of 6 dots, that is, a system of 6 coplanar points, with all the ranges they determine (connectors).

In a hexastim there are 15 connectors and 45 codots. In a hexagram there are 15 fans and 45 diagonals. Merriman and Woodward, Higher Mathematics, p. 77.

hexastylic (hek-sa-stil'ik), a. [hexastyle + -ic.]

Same as hexastylar.

hexasulphid, hexasulphide (hek-sa-sul'fid, or -fid), n. [Gr. $\epsilon\xi$, six. + E. sulphid.] In chem., a compound containing six atoms of sulphur, as triphosphorus hexasulphid (P3S6). hexatetrahedral (hek sa-tet-ra-hē'dral), a. Of or pertaining to a hexatetrahedron or the class of crystals of which it is the characteristic form. See *symmetry, 6.

hexavalency (hek-sav'a-len-si), n. [Gr. εξ, six, + E. valency.] In chem., valence or valency equivalent to that of six monad atoms, as of hydrogen. W. Ramsay, in N. Y. Sun, Dec. 30, 1900.

hexazane (hek-saz'ān), n. [Gr. £\varepsilon \text{six}, + E. az(ote) + -ane.] Same as piperidine. hexazene (hek-saz'\varepsilon), n. [Gr. \varepsilon \varepsilon \text{six}, + E. az(ote) + -ene.] A colorless liquid, NH\langle CH_2\cdot CH_2\rangle CH_2, which decomposes when

boiled. Also called tetrahydropyridine and piperideine.

hexeikosane, n. See *hexaicosane. hexene (hek'sēn), n. [Gr. εξ, six, + -ene.] A colorless, liquid, olefinic compound, CH₃(CH₂)₃ CH:CH₂, which boils at 68-70° C. It is pre-pared from hexyl chlorid and is homologous with ethylene. Also called hexylene and normal

butylethylene. Also called neighbor and normal butylethylene.

hexine (hek'sin), n. [Gr. £5, six, +-ine².] A colorless unstable liquid, CH₃.C: C(CH₂)₂CH₃, which boils at 83-84° C. It is prepared from hexylene bromide and is homologous with acetylene. Also called methyl normal propylant. acetulene.

hexiodide (hek-sī'ō-did), n. [Gr. $\xi\xi$, six, + E. iodide.] In chem., a compound containing six atoms of iodine: as, sulphur hexiodide (SI₈). hexite (hek'sīt), n. [Gr. $\dot{\epsilon}\xi$, six, + -ite².] An alcohol, such as manutol, containing six hydroxyleron. droxyl groups. The compounds are some-times termed hexahydric alcohols and hexacid

hexobiose (hek-sō-bī'ōs), n. [Gr. & s. six, + E. biose.] A disaccharide which yields two hexose molecules on decomposition, as cane sugar, which yields one molecule of dextrose and one of levulose.

hexoctahedral (hek-sok-ta-hē'dral), a. [hexoctahedr-on + -all.] Of or pertaining to a hex-octahedron or to the class of crystals of which it is the characteristic form. See *symmetry, 6. hexode (hek'sōd), a. [Gr., ⟨ε̄ξ, six, + δός, way.] In elect., six-way; sixfold; such that six messages can be sent at the same time over the same wire, as in a multiplex telegraph. hexoic (hek-sō'ik), a. [Gr. $\dot{\epsilon}\xi$, six, + -o- +

-ic.] Pertaining to hexane.—Hexoic acid. Same as normal caproic acid.

hexone (hek'son), n. [=G. hexon; $\langle Gr. \xi \xi, six, \rangle$ +-one.] 1. A term applied by Kossel to any one of several bases, such as arginin, lysin, etc., which contain six atoms of carbon in the molécule.

This gave a solution which should contain the hexon bases, viz., arginine, lysine, histidine, and lysatine.

Amer. Chem. Jour., April, 1903, p. 378.

2. A liquid mixture of hydrocarbons, C_6H_8 , obtained by compressing illuminating gas, which has been prepared by heating fats and resins. It boils at $70-85^{\circ}$ C.

atoms of carbon.

hexoside (hek'sō-sid), n. [hexose + -ide¹.] A glucoside derived from a hexose.

glucoside derived from a hexose. hexotriose (hek-sō-tri'ōs), n. [Irreg. $\langle Gr. \tilde{\epsilon}\xi, six, + -o + Gr. \tau \rho \iota -, three, + -ose.$] The class name of sugars which contain eighteen atoms of carbon in the molecule and are capable of resolution into three molecules of a sugar which contains six atoms of carbon in the molecule. Thus raffinose is a hexotriose and

may be decomposed into equal molecules of fructose (levulose), glucose, and galactose. hexoylene (hek-sō'i-lēn), n. [Gr. $\dot{\epsilon}\xi$, six, + -o- + -yl + -ene.] A colorless liquid, CH₃ (CH₂)₃C: CH(\dagger), prepared from hexylene bromide. It boils at 80-85°C. Also called 5-hexine and normal-butylacetylene.

hextetrahedral (heks-tet-ra-hē'dral), a. Same as *hexatetruhedral.
hextetrahedron (heks'tet-ra-hē'dran), n. Same as hexatetrahedron.
hexylamine (heks-sil-am'in), n. [Gr. ɛ̃ɛ, six, + -yt + amine.] A poisonous ptomaine (C₆H₁₅ N) found in cod-liver oil and also obtained from veast.

hexylene (hek'si-lēn), n. [Gr. $\dot{\epsilon}\xi$, six, + -yl + -ene.] A colorless liquid, CH₃(CH₂)₃CH: CH₂, prepared from hexyl chlorid and formed during the distillation of boghead coal or from

during the distillation of boghead coal or from superheated paraffin. It boils at 68-70° C. Also called 5-hexene.

hexylic (hek-sil'ik), a. [hexyl + -ic.] Pertaining to hexane or hexylic acid. Same as hexyl.—Hexylic acid. Same as caproic acid.

Heyduck, n. Same as Haiduk (which see).

hf. A contraction of half.

hf. A contraction of half.
hf. bd. A contraction of half-bound.
hf. cf. A contraction of half calf.
hg². A contraction of heetogram.
h. G. An abbreviation (a) of His G

H. G. An abbreviation (a) of His Grace; (b) of Horse Guards.

jaws of certain insects.

Histus aorticus, the aortic orifice in the diaphragm. See aortic orifice.—Histus ventriculi, a term proposed by A. Hill as synonymous with choroidal fissure, or the lateral portion of the rima transversa cerebri. Philos. Trans. Roy. Soc. (Iondon), 1893, ser. B, p. 425.

hiba (hē'bä), n. [Jap.] A species of cypress, Thuyopsis dolobrata, easily distinguished from other species by the yellow-green of the upper side of the leaves and the blue-green and peculiar marking of the under side. Its wood is yellow, and is remarkably durable in water, so that it is much used for stakes as well as in ship- and bridge-building. It is also used for lacquer-ware. See Thuyopsis.

hibachi (hē-bä'-

hibachi (hē-bä'chē), n. [Jap. hibachi, < hi, fire, + hachi, a bowl basin, pot.] In Japan, a pan or box in which charcoal is kept burning for the purpose of warming the hands or heating the an apartment; a brazier.

hibernant (hi' ber-nant), a and n. I. a. Hiber-nating or lying

dormant during

Hibachi, with Tongs.

winter. [Rare.]

II. n. An animal that hibernates; a resident of a given locality during the winter season only. [Rare.] hibernate, v. i.—Hibernating gland. See *gland.

Hibachi, with Tongs.

Hibernating gland. See *gland. hibernator (hi'ber-nā-tor), n. An animal that

wn hedgehog.

Sunday Mag., 1883, p. 674.

Hiberno-Celt (hī-ber'nō-selt'), n. A native Irishman of Celtic stock.

hibschite (hib'shīt), n. [Named after J. E. Hibsch.] A mineral occurring with green melanite crystals in the phonolite of the Marienberg near Aussig, Bohemia. It is isotropic, has an octahedral form, and, in composition, is near lawsonite, having perhaps the same formula (H₄CaAl₂Si₂O₁₀).

hickory, n. 3. In Australia, a name applied to several trees the wood of which is used for the same purposes as that of the American hickories, especially the hickory-acacia, Acacia

hickories, especially the hickory-acacia, Acacia helprosa, the blackwood of Australia, Acacia Melanoxylon, and the hickory-eucalyptus, Eucalyptus punctata.—4. In Tasmania, a shrub or small tree of the rue family, Phebalium squameum, conspicuous for its strong smell, squameum, conspicuous for its strong smell, silvery under-surface of the leaves, and small pink-and-white flowers.—Big-bud hickory, Hicoria alba. See white-heart *hickory and mockernut. [Florida]—Bitter hickory. Same as bitternut.—Black hickory. (a) Same as pignut, 2. (b) Same as white-heart *hickory.—Broom-hickory, the pignut, Hicoria glabra: so called from the use of its finely split wood in making brooms.—Brown hickory. See pignut, 2.—Hickory gall-louse, horned-devil caterpillar. See *nutneg-hickory. White hickory. (a) Same as white-heart *hickory. (b) Same as pignut, 2. (c) Same as bitternut. (d) The shellbark, Hicoria ovata.—White-heart hickory, the mockernut, Hicoria alba, a timber-tree distributed from southern Ontario and southern New England over the eastern United States, sbundant only southward. The leaves have a conspicuous resinous fragrance. The wood is heavy, hard, tough, and flexible, and, like that of the shellbarks, is of great value in the manufacture of agricultural implements, carriages and wagons, ax-helves, etc., and for fuel. The heart-wood is of a rich brown, the thick sap-wood nearly white. Also called bullnut.

hickory-aphis (hik'o-ri-ā'fis),

n. A plant-louse, Lachnus caryæ, which infests the twigs and small branches of the hickory. silvery under-surface of the leaves, and small

hickorv

hickory-borer (hik'o-ri-bor'er), n. Any one of more than forty species of cerambycid, ptinid, or scolytid beetles whose larva bore into the trunk and limbs of hickory-trees. A common hickory-borer is



Hickory-moth (Archips semiferana).
a, moth; b, larva; c, chrysalis. About twice natural size.

leaves. Among them are the hickory tussockmoth, Halisidota caryæ, of the family Arctidæ; Ennomos subsignarius, of the family Geometridæ; Acrobasis rubrifasciella, of the family Phycitidæ; and Archips (Cacæcia) semiferana, of the family Tortricidæ.

hickory-pole (hik'o-ri-pōl), n. A pole of hickory, often used as a flagstaff. From 1828 to 1860 a pole of this kind with a brush at the top was the emblem of the Democratic party in the United States; in allusion to Andrew Jackson's popular name of 'Old Hickory. Jour. Amer. Folk-lore, Oct.-Dec., 1902, p. 245. hickory. shad n. 2. A fish. Pomolobus medio-

hickory-shad, n. 2. A fish, Pomolobus mediocris, of the Atlantic coast of the United States. Hicks's bottles. See *bottle2. Hicoria (hi-kō'ri-ä), n. [NL. (Rafinesque,

1808), \(\frac{hickory}{icknown} \), the American name. A genus of dicotyledonous trees belonging to the famof deotytetonous trees belonging to the family Juglandaces. Until recently it has been known as Carya, a name given it by Nuttall, but now Rafinesque's name Hicoria, from the aboriginal Indian name, has been restored, and all the species have been renamed under this latter generic name. The species of Hicoria are all native to eastern North America, and are about fifteen in number. The shellbark hickory, pecan, pignut, mockernut, and bitternut all belong in this genus. See Carya.

hexonic (hek-son'ik), a. [hexone + -ic.] Of or pertaining to the hexone bases arginin, lysin, and histidin. See *hexone, 2.
hexosazon (hek-sos-az'on), n. [Gr. \(\tilde{\epsilon}\), six, + E. osazon.] The osazon of a hexose sugar; that is a sugar containing six carbon atoms.
hexose (hek's\(\tilde{\epsilon}\), n. [Gr. \(\tilde{\epsilon}\), six, + -ose.] A simple sugar (monosaccharide) containing six atoms of carbon.

hexose (hek's\(\tilde{\epsilon}\), n. [Gr. \(\tilde{\epsilon}\), six, + -ose.] A hibschite (hib's\(\tilde{\epsilon}\)), n. [Named after J. E. atoms of carbon.

hexose of carbon.

hexose (hek's\(\tilde{\epsilon}\), n. [Gr. \(\tilde{\epsilon}\), six, + -ose.] A hibschite (hib's\(\tilde{\epsilon}\)), n. [Named after J. E. Hibsch.] A mineral occurring with green melative form its references to the Domesday survey.

An elaborate hidated survey, which possesses a peculiar value from its references to the Domesday survey.

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Attenzum, Sep. 28, 1889, p. 421.

gism (which see).

hidated (hī'dā-ted), p. a. Measured by or reckoned in hides. See hide3, n.

An elaborate hidated survey, which possesses a peculiar value from its references to the Domesday survey.

Athenæum, Sept. 28, 1889, p. 421.

Athensum, Sept. 28, 1889, p. 421. hidation (hī-dā'shon), n. Measurement or assessment by hides. hideling, a. II. n. A person or a thing that is in the habit of hiding itself. N. E. D. hideondo (ē-dā-on'dō), n. [Amer. Sp.] The creosote-bush, Covillea tridentata. hidradenitis (hi-drad-e-nī'tis), n. [NL., \langle Gr. $i\delta\rho(\omega_{\zeta})$, sweat, + $a\delta\eta\nu$, gland, + -itis.] Inflammation of the sweat-glands. hidroadenitis (hid'rō-ad-e-nī'tis), n. Same as

hidroadenitis (hid'rō-ad-e-nī'tis), n. Same as

*hidrodenitis.
hidropoiesis (hid"rō-poi-ē'sis), n. [NL., < Gr. ἰδρώς, sweat, + ποίησις, making.] Secretion of the sweat.
hidropoietic (hid"rō-poi-et'ik), a. Pertaining to or characterized by hidropoiesis; sudo-

hielaman (hē'la-man), n. [Australian elimang (Hunter), e-lee-mong (Collins), hilaman (Ridley).] A narrow, elongated shield used by the Australian aborigines. E. E. Morris, Austral English.

hielaman-tree (hē'la-man-trē'), n. The bat's-wing coral-tree, Erythrina Vespertilio, so called from the use of its wood by the Australian na-

from the use of its wood by the Australian natives for making their hielamans or shields. See bat's-wing *coral-tree.

Hieracian (hi-e-rā'shan), n. Same as Hieracite. hieratica (hi-e-rat'i-kä), n. [L. fem. of hieraticus, hieratic.] A grade of papyrus, used for religious writings in Egypt.

hieratite (hi'e-ra-tii), n. [Named from Hiera, an ancient name of Vulcano.] A mineral containing silicon. fluorin, and potassium, obtained in isometric crystals from the aqueous tained in isometric crystals from the aqueous

solution of stalactitic concretions found at the crater of Vulcano, one of the Lipari Islands. hierocratic (hī'e-rō-krat'ik), a. [hierocracy (-crat-) + -ic.] Pertaining to or of the nature of a hierocracy; hierarchal: as, hierocratic rule. hierodulic (hī'e-rō-dū'lik), a. [hierodule + -ic.] Of or pertaining to the hierodule or temple slave -ic.] Of ple slave.

hierogamy (hī-e-rog'a-mi), n. [Gr. lερός, sa-ored, + γάμος, marriage.] A sacred marriage. Stand. Dict.

We must now recall the fact that the hierogamy of Zeus and Europa was annually celebrated at Gortyna in Crete.

Lenormant (trans.), Beginnings of Hist., App. i, p. 55Q hieroglyphic. I. a. 4. Of or pertaining to certain vermiform structures which occur in the

flysch, in Carpathian sandstone, and in the marine facies of the Cretaceous and Jurassic formations of the Alps. See II, 2.

II. n. 2. One of certain vermiform structures, abundant in the Cretaceous and Jurassic rocks

of some countries, probably in part the trails of mollusks or worms.

hieroglyphism (hī-e-rog'li-fizm), n. [hiero-glyph + -ism.] The use of hieroglyphs in expressing ideas.

It is far beyond the scope of the present article to de-scribe fully the development of hieroglyphism in Egypt. Encyc. Brit., L 606.

hieroglyphology (hi'e-rō-gli-fol'ō-ji), n. [hieroglyph + Gr. -λογα, 〈 λέγειν, speak.] The scientific study of hieroglyphs.
hieroglyphy (hi-e-rog'li-fi), n. [hieroglyph + -yl.] The art of writing in hieroglyphs; the

-y1.] The art of writing ...
use of hieroglyphs.
hieroglyptic (hi'e-rō-glip'tik), a. [Gr. iερός, sacred, + γλυπτικός, carved: see glyptic.] Same as hieroglyphic.

to be noted.

A. J. Evans, in Jour. Hellenic Studies, XIV. 300. hieromania (hī'e-rō-mā'ni-ä), n. [NL., ζ Gr. μερός, sacred, religious, + μανία, madness.] Religious mania.

hieropæi (hi e-rō-pē'i), n. pl. [NL., < Gr. iεροποιοί, pl. of iεροποιοίς, < iερα, sacred rites, + ποιείν, do.] In Gr. antiq., secondary officers of temples, usually grouped in colleges, charged with assisting the priests, and with various duties about the temples.

They are the accounts of the *Hieroperi* of the Delian temple of Apollo, and they give, amongst other things, the salaries of various officials.

P. B. Jevons, in Jour. Hellenic Studies, XV. 246.



high. I. a.

high. I. a. 15. Noting the strength of a suit, as in whist or bridge: as, queen high in spades, and ten high in diamonds.—High roof, tide, vacuum. See *roofl, etc.—No higher (naut.) an order to the helmsman not to bring the ship any closer to the wind.—The sun is high. See *sunt.

—To point high. See *roofl.

II. n. 3. One of the points in the game of all-fours.—4. The area of high barometric pressure shown on the daily weather map, usually moving eastward and toward the equator, its front being marked by suddenly falling temperature, drier air, strong polar winds, and spits of rain or snow, followed by clear weather and by a temperature that may be either high or low depending on the balance between radiation, isolation, connection, and thermodynamic action.

The hot wave had its inception in the wake of a high area, which dropped down from northern New York over Virginia and the neighboring States. Here it seemed to foln forces with the permanent high over the ocean and remained nearly stationary for a number of days.

The hot wave had its inception in the wake of a high area, which dropped down from northern New York over Virginia and the neighboring States. Here it seemed to join forces with the permanent high over the ocean and remained nearly stationary for a number of days.

Yearbook, U. S. Dept. Agr., 1900, p. 832.

Tropical high, the area of high pressure under the tropics of Capricorn or Cancer, which prevails over the continents in winter, but over the oceans in summer. high-ball (hi'bâl), n. 1. A method of settling

who shall pay for something, in which the num-bered balls that are used in the game of pinpool are thrown out from a receptacle, the highest ball winning and the lowest paying .-2. A 'long drink,' consisting of a modicum of hilaris (h-lā'ri-ā), n. pl. [L., neut. pl. of whisky diluted with club soda or mineral hilaris, joyful: see hilarious.] In Rom. antiq., water, and served with cracked ice in a tall a joyous festival in honor of Cybele, cele-

mover, and served with cracked ice in a tall glass. [Slang.]

high-blower (hī' blō' er), n. A horse that hilamic (hi-laz'mik), a. [Gr. iλασμός, propitiation, < lλάσκεσθαι, appease, propitiate.] Propit. Agr., Rep. on Diseases of the Horse, Hildebrandic (hi-leē-bran'dik), a. Same as 1903, p. 118.

high-distant (hi-laz'mik), a. Same as Hildebrandic.

high-duty (hi'dū'ti), a. Performing a high percentage of service; high-economy: used of pumping-engines. A high-duty pump is one that deflivers a proportionately large number of foot-pounds of work, in the form of water pumped, per million heat-units furnished by the boiler. The American basis for measuring duty is now the million heat-units furnished by the boiler, instead of (as formerly) a given quantity of coal burned.

burned.
high-five (hi'fiv), n. See *cinch, 4.
high-filer, n. 3. A phaëton with low front
wheels, arched reaches, and boxes over both
axles. The body was hung high upon four S-springs.
It was popularized by the Prince of Wales (afterward
George IV.) and other young sporting men of his day.
high-grade (hi'grād), a. Of a superior grade
or quality; specifically, having more than
three quarters pure blood: applied by stockbreeders to animals.

breeders to animals.

high-handedness (hi'han'ded-nes), n. Highhanded, arbitrary, and unreasonable conduct or treatment.

high-heeled (hī'hēld), a. Made with or having high heels: as, high-heeled shoes.
high-kilted (hī'kil'ted), a. Having the skirt

exhausts at atmospheric pressure as distinguished from a condensing-engine; hence, non-condensing. This use of the term is confusing and inadicable.

Progress of the 1-inch hill-map of the United King-fusing and inadicable.

All three of the tapestry looms at Merton are constructed on the high-warp system.

A. Vallance, William Morris, p. 92.

Higo pottery. See *pottery.
higuera (ē-gā'rä), n. [One of the extended uses of Sp. higuera, a fig-tree, < higo, < L. ficus, a fig: see fig1.] In Porto Rico, the calabash-tree, Crescentia Cujete. See Crescentia. In Mexico and other Spanish-American countries it is commonly called ficara.
hike (hik), v. [Also hyke: a widely used dialect word, parallel to hick1 and hitch, recently

cal-button.

At one of the feasts which I witnessed I wished to taste hikuli, as it was new to me. . . The man who carried the gourd first danced in front of the shaman, then around the fire, and finally brought it to me. The liquid tasted somewhat bitter, but not exactly disagreeable; and while I drank, the man looked at me with astonishment, as if he had expected that hikuli would refuse to be taken by me.

C. Lumholtz, Unknown Mexico, L 374.

A simplified spelling of hill. il, n. and v.

Performing a high high-economy: used of hitty pump is one that deumber of foot-pounds of ed, per million heat-units American basis for measurements furnished by the a given quantity of coal *cinch, 4.

They exhibit many variations in size and shape, how-ever, some being nearly circular, mammillary hills, and others lenticular hills, in which the longer axis is two or three times as great as the shorter axis.

I. C. Russell, Glaciers of North America, p. 24.

Mammillary hill, a hill of rounded form. I. C. Russell, Glaciers of North America, p. 24.—Remnant hill, a residual hill remaining when the neighboring surface is worn down to a peneplain; a small monadnock. W. M. Davis, Elem. Phys. Geog.

hill1, v. i. 2. To assemble on rising ground. [Rare.]

handed, arbitrary, and or treatment.

The "free-choice" system in club practice was generally recommended as supplying the relatively best protection against the high-handedness of the clubs.

Lancet, April 4, 1903, p. 997.

Made with or hav
Made with or hav-

guished from a condensing engine, nearly, non-condensing. This use of the term is confusing and inadvisable.

high-roller (hī'rō'ler), n. A recklessly extravagant, high-living 'sport.' [Slang.]
high-warp (hī'wārp), a. A translation of French haute-lisse (which see).

Progress of the 1-inch hill-map of the United Kingdom. Geog. Jour. (R. G. S.), XV. 578.

hill-planting (hil'plan'ting), n. Same as *mound-planting.

Hillsboro sandstone. See *sandstone.

hill-shading (hil'shā"ding), n. A conventional granbia device for representing the slopes of Hillsboro sandstone. See *sandstone.
hill-shading (hil'shā'ding), n. A conventional graphic device for representing the slopes of the earth's surface.

The map is clearly drawn, and printed in four colours—sea, blue; hill-shading, brown; forests, green; and rivers, roads, and lettering, black.

Geog. Jour. (R. G. S.), XV. 678.

roads, and lettering, black.

Geog. Jour. (R. G. S.), XV. 678.

illum, n., 2. (d) A protrusion of a portion of the iris through a rupture of the cornea. (e) A depression on the ventrolateral surface of the mammalian brain in the region of the vallecula Sylvii. Philos. Trans. Roy. Soc. (London), 1899, ser. B, p. 297.

hilus (hī'lus), n. Same as hilum. Proc. Zool.

hinterland (hin'tèr-land), n. [G., < hinter, back, + land, country.] Territory that lies

An abbreviation of His (or Her) Imperial Majesty.
hind¹, n. 3. A small bass-like fish, Cephalo-

photis cruentalis, of the family Scrranide, found in the West Indies. Those found in deep waters are red, and are known as red hinds; those found near the shore are dark brown, and are known as brown hinds.—Rock hind, a species of grouper of the family Scrranide, Epinephelus advensionis, found in the West Indies.—Speckled hind, a species of grouper, Epinephelus drummond-hapi, characterized by dark-brown color marked with bright white spots, found in the Gulf of Mexico. pholis cruentalis, of the family Scrranida, found

Mexico.
hind-castle (hind'kas'l), n. The high poop,
or after-eastle, on old-fashioned vessels, as
distinguished from the forecastle; formerly the elevated structure on the after part of a ship, the top of which was used as a fighting-platform.

hinder² (hin'der), n. In hand-ball, a ball struck by a player which afterward strikes his opponent; or one with which the server hits his opponent while standing in the aceline; or one which strikes the opponent, who thus hinders it from reaching the frout wall.

Hindia (hin'di-ä), n. [NL., named after G. J. Hinde.] A Silurian genus of lithistid sponges,

belonging to the suborder Eutaxicladina, characterized by the spherical body and the composition of the skeletal elements which consist of three single rays and a reduced button-like fourth ray

of hind's-foot (hinds'fut), n.; pl. hind's-feet
f., (-fēt). A crossbow bent by a lever composed
of two articulated pieces. See goat's-foot lever,

of two articulated pieces. See goars-joot lever, under lever!.

Hind's nebula. See *nebula.

Hindu numerals. See *numeral.

hindwing (hind'wing), n. A moth of the family Noctuidæ.—American copper hindwing, Pyrophile pyramidoides, a noctuid moth of wide range in the United States, where its larvæ feed on the foliage of the grape and the Virginia creeper.

hinge, n. 6. In bot., the flexible lamella of the guard-cells of a stoma which renders them guard-cells of a stoma which renders them mobile.— Frontonasal hinge, in ornith., a transverse groove which more or less completely separates the nasals and frontals, permitting considerable freedom of movement, in a vertical plane, to the beak. It is most marked in parrots, where the separation is nearly or quite complete, but is found to a lesser degree in many other birds, such as cormonants. This arrangement permits the beak to serve to some extent as an organ of prehension, and facilitates the capture and manipulation of food. Also mass hings.—Nasal hings. Same as frontonasal *hings. hinge.— Nasal hinge, Same as frontonatal thinge.— Parliament hinge, a simple form of hinge of butts in which the joint projects from the door and frame keeping the door when open away from the molding of edge of the door-frame.

hinge-area (hinj'ā'rē-ā), n. The space between the beaks of the dorsal and ventral valves of a bivalve mollusk.

hinge-ligament (hinj'lig'a-ment), n. In bivalve mollusks, a tough, uncalcified, elastic membrane which connects the two valves. It consists of two parts, the external, or ligament proper, and the internal, or cartilage. The former is inelastic, while the latter is very elastic and is composed of parallel

The operation of [the hinge-ligament] . . . is in opposition to that of the adductor muscles. When the latter close the valves, they compress the ligament, an action which its elasticity resists: thus its operation tends in part towards keeping the valves open. But when ligament and cartilage are both fully developed, they work in opposition to one another, the ligament, by its resistance to compression, preventing any straining of the adductor muscles when the valves are open, and the cartilage, for the same reason, preventing the ventral margins of the shell from closing too rapidly upon one another when the valves are being shut. Cambridge Nat. Hist., III. 272. ing high heels: as, myr.

high-kilted (hi'kii'ted), a. Having the skirt or petticoat kilted or tucked up.

Highland Scotch. See *Scotch!.

highlander, n. 2. A playing-card having slight blemishes on both surfaces. Household write of Smith Sound, Greenland, so called by their discoverer, Sir John Ross.

high-low-jack, n. 2. A form of billiard-pool with fifteen object-balls, based in part on the card game of all-fours: once popular, but now card game of all-fours: once popular of the complete on of the hill-enguated, so much required the employment of hill-enguated, so much required to the individuated, so much required the hill-enguated, so much required to h

Hinnites (hi-nī'tēz), n. [NL., < Gr. livoc, a mule, + -ites, E. -ite².] A genus of prionodes-maceous pelecypod mollusks belonging to the family Pectinide, characterized by an adherent and more or less distorted shell. It extends from the Trias to the present time.

from the Trias to the present time.

hinoki (hē-nō'kē), n. [Jap. hi-no-ki, 'fire-tree':
hi, fire, no, of, ki, tree.] A variety of the
Japanese cypress, Chamæcyparis obtusa, having foliage of a golden color. See Retinospora.
This tree is particularly sacred in Shinto worship, and on
this account is cultivated more than any other. Its wood
is white or pink, smooth, light, and very tough. It is
preferred to all others for lacquer-ware, and is used exclusively in building Shinto temples.
hinterhand (hin'tèr-hand). 2. [G] In skat

back of and is tributary to a coast region or

The province of Shantung is the hinterland of the very large harbor the Germans have seized.

Bulletin Amer Geog. Soc., XXX. 57.

hintzeite (hint'se-īt), n. [G. hintzeit, named (by L. Milch, 1890) after C. H. Hintze, a German mineralogist.]

Same as *heintzeite.

(by L. Milch, 1850) area of the interior.

man mineralogist.] Same as *heintzeite.

Hiodon (hi'ō-don), y. [NL. (Le Sueur, 1818), erroneously for Hyodon, < Gr. b(οειδής), Y-shaped (see hyoid), + οδούς (οδοντ-), tooth.]

A genus of mooneyes, herring-like fishes of a brilliant silvery color, remarkable for a row of strong teeth on the tongue: found in the Mississippi basin and neighboring waters.

Mississippi basin and neighboring waters.

Hiodontida (hī-ō-don'ti-dē), n. pl. [NL., < Hiodon(t-) + -idæ.] A family of herring-like fishes known as mooneyes, typified by the genur Hiodon. Three species are known, all of which are confined to the Mississippi valley

which are comment to the mississippi valley physical stollad in the kinds is labeled and neighboring waters.

hi-ogi (hē-ō'gē), n. [Jap. hi-ōgi, < hi, fire (in [Gr. $l\pi\pi\sigma_c$, horse, $+\kappa \acute{\sigma}\pi\rho_c$, dung, $+\sigma\tau \acute{e}\mu$, fat, hi-noki: see *hinoki), $+\sigma \acute{e}i$, a folding fan.] In Japan, a folding court-fan made of hinoki, a delicate brown wood used in its natural color.

Hippocratic fingers or nails, oath. See *fin-trails. hi-ogi (hē-ō'gē), n. [Jap. hi-ōgi, < hi, fire (in hi-noki: see *hinoki), + ōgi, a folding fan.] In Japan, a folding court-fan made of hinoki, a

mortantite (hē-ôrt'dē-līt), n. [Named for Prof. Th. Hiortdahl of Christiania.] A rare silicate containing zirconium, calcium, and sodium, with fluorin, which occurs in yellow triclinic crystals: found in southern Norway. Hippodamous (hipod'a-mus), a. [Gr. lππόdallow, hippodamous (hippd'a-low), hippodamous (hippd'a-low), hippodamous (hippd'a-low), hippodamous (hippd'a-low), hippodamous (hippd'a-low), a. [Gr. lππόdallow), hippdamous (hippd'a-low), hippdamous (hippd'a-low)

the head and front of a horse with the tail a norse with the tail and feet of a cock. Its representation in art is not common. The most important example is a fragment of late sixth-cen-tury sculpture found upon the Acropolis at Athens.



Hippalectryon. From an amphora in the Louvre

hipparaffin (hi-par'a-fin), n. [hip(puric) + paraffin.] A colorless compound, CH₂(NHC OC₆H₅)₂, formed by the oxidation of hippuric acid or from benzonitrile and methylal. It crystallizes in long needles and melts at 220.5— 221° C. Also called methylene-dibenzamide.

Hipparchia (hi-păr'ki-ă), n. [NL.] Same as Sātyrus, 3.

Hipparionyx (hi-pā-ri-on'iks), n. [NL., ζ Gr. lππάριου, a colt, + δυυξ, a hoof.] A ge-nus of Devonian Brachiopoda which at-



chiopoda which attained a large size. It is named from the singular resemblance of the cast of the ventral valve to the impression of a cott's foot. It belongs to the family Strophomenides, and is abundant in and very characteristic of the Oris-kany sandstone of New York and the equivalent horizon in other regions. hipped 1, p. a. 2, Having hips: said of a roof, or of one end of a roof. A roof may be hipped at one end and gabled at the other. Hippelates fly. See *fty2. hippiatrical (hip-i-at'ri-kal). a. Same as hip-

hippiatrical (hip-i-at'ri-kal), a. Same as hip-

hippiatrics (hip-i-at'riks), n. Same as hip-

hippic (hip'ik), a. [Gr. iππικός, < iππος, horse, = L. equus, horse: see equine.] Of or pertaining to horses or horse-racing: as, hippic festivals.

Hippidium (hi-pid'i-um), n. [NL., \langle Gr. $l\pi$ πιδιον, dim. of $l\pi$ πος, a horse.] Same as Plio-

In broad daylight a hippo charged the steamer that was towing my dishbeesh.

Sir S. W. Baker, Wild Beasts and their Ways, p. 247.

Innohaedd (hip-5-bos id), n. and a. I. n.

hippoboscid (hip-ō-bos'id), n. and a. I. n. A member of the family Hippoboscidæ.

II. a. Of or belonging to the dipterous

family Hippoboscidæ.

Hippocephalus (hip-ō-sef'a-lus), n. [NL., < Gr. iππος, horse, + κεφαλή, head.] A genus of sea-poachers of the family Agonidæ. They are remarkable for the external distortion of the head. H. japonicus is found in the Kurile Islands.

Owing to the numerous swamps, flies of various kinds are abundant, and as early as September the large biting fly called the "hippo" fly was a great annoyance. Our stock suffered severely from the thousands of these flies which attacked them every evening.

Secog. Jour. (B. G. S.), XVIII. 75.

hippoform (hip'ō-fôrm), n. [Gr. lππος, horse, + L. forma, shape.] Having the form of a horse. Amer. Anthropologist, Jan.-March, 1903, p. 138.

Hippoglossina (hip'ō-glo-sī'nš), n. [NL., < Gr. lππος, horse, + γλωσσα, tongue, + -inal.]

A genus of flounders of the shores of tropical America. H. macrops, of the west coast of Mexico. is the species longest known. A genus or nounders of the shores of tropical America. H. macrops, of the west coast of Mexico, is the species longest known.

hippoid (hip'oid), a. and n. [Gr. lππος, horse, + iloo, form.] I. a. Pertaining to or having the characters of the Hippidæ.

II. n. An animal which is related to or resembles the horse.

hip-pole (hip'pol), n. A beam which supports an angle-rafter.

hipparch (hip'ark), n. [Gr. $l\pi\pi\delta\rho\chi\eta_{\mathcal{K}}$, also $l\pi\pi\alpha\rho\chi\eta_{\mathcal{K}}$, also $l\pi\pi\alpha\rho\chi\eta_{\mathcal{K}}$, also $l\pi\pi\alpha\rho\chi\eta_{\mathcal{K}}$, $l\pi\pi\rho\lambda\eta_{\mathcal{K}}$, also $l\pi\pi\alpha\rho\chi\eta_{\mathcal{K}}$, $l\pi\eta\rho\chi_{\mathcal{K}}$, also $l\pi\eta\rho\chi_{\mathcal{K}}$, $l\pi\eta\rho\chi_{\mathcal{K}}$, also $l\pi\eta\rho\chi_{\mathcal{K}}$, and $l\eta\eta\rho\chi_{\mathcal{K}}$, also $l\pi\eta\rho\chi_{\mathcal{K}}$, also $l\pi\eta\rho\chi_{\mathcal{K}}$, and $l\eta\eta\rho\chi_{\mathcal{K}}$, and

Gr. Ἰππολίτη, a female name.] The typical genus of the family Hippolytidæ.
 Hippolytidæ (hip-ō-lit'i-dē), n. pl. [NL., < Hippolyte + -tdæ.] A family of macrurous decapod crustaceans. They have a large rostrum, the eyes not covered by the carapace, the mandibles with or without a cutting-edge and palp, and the first and second pair of trunk-legs with chelæ. It includes about a dozen genera, among them being Cryptochetes, Hippolyte, and Platybema.

hippomelanin (hip-ō-mel'a-nin), n. [Gr. $i\pi\pi\sigma_{0}$, horse, $+\mu i\lambda a_{0}$ ($\mu i\lambda a_{0}$ -), black, $+-in^{2}$.] A black pigment which has been obtained from melanotic tumors of horses.

Hipponychidæ (hip-ō-nik'i-dō), n. pl. Hipponyx (-onych-) + -idæ.] A family of tænioglossate pectinibranchiate gastropods. The visceral mass and shell are conical, and the foot is reduced, secreting a thin calcareous plate on its ventral surface. The family contains the genera Hipponyx and Mitrularia.

Mitrularia.
Hipponyx (hip'ō-niks), n. [Gr. lππος, a horse, + bvvξ, hoof.] A genus of capulid Gasteropoda characterized by a thick, obliquely conical shell and an internal hippocrepian muscular impression. It has existed from the

muscular impression. It has existed from the Cretaceous period to the present time.

hippophagism (hi-pof'a-jizm), n. [hippophagy.
Of or perhippoptamian (hip'ō-pō-tā'mi-an), a. Resembling or suggesting a hippopotamus.
hippotragine (hi-pot'rā-jin), a. Related to, vL., ⟨Gr. iπSame as Pliosame as Pliosame as Plioaphreviation hippotragus: as, the hippotragine section of the Boridæ.

hippotragus: as, the hippotragine section of the Boridæ.

hippus.

hippo² (hip'ō), n. A colloquial abbreviation hippurin (hip'ū-rin), n. [hippuric + -in².] A colloquial abbreviation of hippopotamus.

hipsy (hip'si), n. [Origin obscure.] A sailors' punch composed of wine, water, and brandy. Drinking of Hipsy, a liquor compounded of wine, water, and brandy, which, by the admirers of it, is also call'd meat, drink, and cloth.

W. Betagh, in N. and Q., 10th ser., III. 61.

W. Betagh, in N. and Q., 10th ser., III. 61.

hip-truss (hip'trus), n. A truss erected to sustain the angle-rafters of a hip-roof.

Hirado porcelain. See *porcelain¹.

Hircic acid. See *hircin.

hircin (hèr'sin), n. [L. hirc-us, goat, + -in².]

A fatty principle found in the fat of goats and, to a certain extent, in that of sheep. The corresponding fatty acid is termed hircic acid.

hircocarf (ēr-kō-serf'), n. [F., < L. hircus, goat, + cervus, deer. The word translates Gr. τραγέλαφος: see tragelaphus, n., 1.] A fabulous animal, the same as tragelaphus.

Renan described himself as "a tissue of contradictions.

animal, the same as trugetapeaus.

Renan described himself as "a tissue of contradictions, recalling the classic hir/closerf with two natures. One of my halves is constantly occupied in demolishing the other, like the fabulous animal of Ctesias, who ate his paws without knowing it."

C. Lombrose (trans.), Man of Genius, p. 25.

to or characteristic of the leeches.

hirudinean (hir-ö-din'ē-an), n. [Hirudinea +
-an.] Any leech of the group Hirudinea.

hirudiniculture (hir-ö-din'i-kul-tūr), n. [L.
hicudo (-din-), leech, + cultura, culture.] The
art or occupation of propagating leeches.

hislopite (his'lop-it), n. [Named (1859) after
the Rev. Stephen Hislop, who brought the minarel from India 1. Agrees group clears blo

eral from India.] A grass-green cleavable calcite from India which derives its color from inclosed glauconite.

Hispa, n. 2. [l. c.] A beetle of the genus Hispa.—Rosy hispa, an American chrysomelid beetle, Odontota rosea, whose larves damage the leaves of apple-

Hispano-Moresque (his-pan'ō-mō-resk'), a. Pertaining to the art of the Moors in Spain or to Spanish art as influenced by that of the Moors.— Hispano-Moreque pottery, pottery made in Spain which shows Moorah influence. Much of this ware was covered with a metallic glaze or luster.

Hispano-Portuguese (his-pan'ō-por-tū-gēs'), a. Belonging or common to both Spain and

Portugal.

histerid (his'te-rid), n. and a. I. n. A member of the family Histeridæ.

II. a. Of or belonging to the coleopterous

family Histeridæ.
histic (his'tik), a. [Gr. lστός, a web, tissue, +
-ic.] Relating to or having the properties of

histidin (his'ti-din), n. [Gr. loriov, web, tissue, $+id+-in^2$.] A colorless compound, C_0H_9 O_2N_3 , formed by the hydrolysis or decomposition of many proteids and albuminoids, such as casein, albumin, and horn. It crystallizes in plates.

Histiobranchus (his'ti-o-brang'kus), n. [NL.,

histioclastic (his'ti-ō-klas'tik), a. [Gr. lστίον, a web, tissue, + κλαστός, < κλάν, break.] Breaking-down tissues: said of certain cells. like the osteoclasts, which destroy cartilage and produce a medium in which the osteoblasts can live and produce bone. Proc. Zool. Soc. London, 1902, I. 208.

Histiocottus (his'ti-ō-kot'us), n. [NL., < Gr.

histionic (his-ti-on'ik), a. [Gr. loriov, a web, + 4c.] In biol., pertaining to or derived from a tissue or unitarily functioning cell-group.

If a single stimulus may . . . leave a permanent impression, which can be spontaneously reproduced later on, we are bound to assume, in explaining the phenomenon, a histionic presentation, dependent on the psychoplasm of the associated tissue-cells.

Haeckel (trans.), Riddle of the Universe, p. 118.

histoblast (his'tō-blast), n. [Gr. lστός, a web, tissue, + βλαστός, a germ.] 1. The cell or morphological unit which is distinctive of a particular tissue.—2. An imaginal disk, one of the formative cell-centers in the insect larva which give rise to the appendages and

other organs of the imaginal or adult insect. histocyte (his'tō-sīt), n. [Gr. iστός, a web, + κίτος, a hollow (a cell).] A tissue-forming histocyte (his'tō-sīt), n.

cell, as in sponges.

histodialytic (his'tō-dī-a-lit'ik), a. [histodi-historiographership (his-tō-ri-og'ra-fer-ship), alysis (-lyt-) + -ic.] Of or pertaining to histo
n. The office of historiographer. dialveis.

histogeography (his'tō-jē-og'ra-fl), n. [For histo(rio)geography, (Gr. ioropia, history, + yewypapia, geography.] Same as *anthropogeography. [Rare.] W. Z. Ripley, Races of Europe, p. 6.

histogram (his'tō-gram), n. [Gr. lστός, a web, + γράμμα, a writing.] A diagram of structural form-elements.

We should like to protest against any such crude process of determining goodness of fit as that of placing a normal curve down on seven or eight blocks forming a "histogram," and judging the look of the fit.

Nature, Dec. 17, 1903, p. 149.

histographer (his-tog'ra-fer), n. [histograph(y) + -er²] One who is versed in histography; a histologist.
histographical (his-tō-graf'i-kal), a. Of or

pertaining to histography.

histology, n.—Pathological histology. Same as

whiteopathology.
histometabasis (his'tō-me-tab'a-sis), n. [Gr. loτός, web, + μετάβασις, exchange.] That condition of fossilization in which an entire exchange of the original substance for another has occurred in such manner as to retain or

reproduce the minute and even microscopic texture of the original. C. A. White, Smithsonian Kep. (Nat. Mus.), 1892, p. 264.

histomorphotic (his'tō-mōr-fot'ik), a. [histomorphosis (-phot) + -ic.] Of or pertaining to histomorphosis, or the formation of tissue in plants or animals.

in plants or animals.

histon (his'ton), n. [Gr. lστός, a web, tissue.]

An albuminous substance which occurs in An albuminous substance which occurs in combination with certain radicals, such as hematin (in hemoglobin), and nucleinic acids (nucleoproteids). Bodies of this order have been obtained from the thymus, the lymph-glands and spleen, the red corpuscles of the goose, etc. Globin, the albuminous radical of hemoglobin, is a histon. The histons are closely related to the protamines, and, like these, are markedly basic: they both form precipitates with albumins. The thymus histon is said to have the composition C273H456Ng18Og4.

Histona (his-to'ni), n. pl. [NL., < Gr. lor65, tissue, + -ona.] A term proposed by Haeckel to designate the multicellular organisms, or those with tissues, as contrasted with the Protista.

Protista.

histonal (his-tō'nal), a. [Histona + -all.] 1. Of or pertaining to the Histona.—2. Same as *histionic (which see).

We have cellular ideas, histonal ideas, unconscious ideas of the ganglionic cells, . . . all of them being physiological functions of their psychoplasm.

Pop. Sct. Mo., Sept., 1902, p. 416.

Fig. Sci. Mo., Sept., 1802, p. 416. Histonal selection. See **selection. histopathologic (his*to-path-o-loj'ik), a. [Gr. lστός, a web, tissue. + E. patholog-y + -ic.] Pertaining or referring to diseased tissues in animals or plant.

animals or plants.

The histopathologic states of the finer structures of the abyrinth.

Detroit Med. Jour., Feb., 1903, p. 706.

histopathological (his-tō-path-ō-loj'i-kal), a.

histophysiology (his tō-fiz-i-ol'ō-ji), n. loτός, a web, tissue, + E. physiology.]

joriov, web, + κόττος, a fish (see cottus).] A tinguished from the physiology of the organs. genus of sculpins of the family Cottidæ found historical, a. 5. In biol., ancestral or inherited, in the North Pacific. history of an organism.

So far as the definition given above of historical properties concerns the inherited specific peculiarities of planta, the term is not metaphorical from the point of view of the Theory of Descent, but must be taken in its literal signification.

Sachs (trans.), Botany, p. 697.

Historical painting. See *painting.
historicocritical (his-tor'i-kō-krit'i-kal), a.
Based on both historical and critical investi-

gation: as, "the historicocritical reconstruc-tion of primitive Christianity," Schaff. historics (his-tor'iks), n. History conceived as a division of social science coördinate with statistics, economics, and politics. [Rare.]

I classify the sciences of sociology as statistics, economics, civics, historics, and ethics, and shall attempt to characterize them for the purpose only of setting forth their nature. J. W. Powell, in An. Rep. Bur. Amer. Ethnol., 1898-99,

historionomer (his-tō-ri-on'ō-mèr), n. [Gr. loropía, history, + $\nu \delta \mu \circ \varsigma$, law, + $-er^2$.] A historian who is versed in both the facts of history and the principles which regulate its Histosporidia (his'tō-spō-rid'i-sh), n. pl. [NL., ⟨Gr. lστός, a web, tissue, + σπορά, seed (spore), + dim. -ιδιον.] The Myzosporidia and the Sarcosporidia taken together. Also Histozoa.

histotherapy (his-to-ther'a-pi), n. (his-tō-ther'a-pi), n. [Gr. $l\sigma\tau\delta\varsigma$, + $\theta\epsilon\rho a\pi\epsilon ia$, medical treatment.] a web, tissue, $+\theta \epsilon \rho a \pi \epsilon i a$, medical treatment.] A method of treating disease by the use of substances derived from the tissues or organs of animals. Buck, Med. Handbook, VI. 409. histotomy (his-tot' $\bar{0}$ -mi), n. [Gr. $i\sigma\tau\delta\varsigma$, a web, tissue, + $-\tau o\mu ua$, $\langle \tau a\mu\epsilon i\nu$, cut.] The dissection or analysis of animal and plant tissues; histol-

Histozoa (his-tō-zō'ā), n. pl. Same as *Histo-

Histrionic paralysis. See *paralysis.

nistrivite (his'trik-sit), n. [Erroneously formed; properly *hystrichite, < Gr. ὑστριξ (ὑστριχ-), a porcupine, + -ite².] A doubtful sulphid of bismuth, antimony, copper, and iron occurring in radiating groups of crystals: found in Tasmania.

hit1, v. t.—To hit off. (c) In cricket, to score (a required number of runs) by hitting or forcing the game.—To hit hkl. See $\star k$, 6.

off the neck, in golf, to strike (a ball) on the neck of the hl. An abbreviation of hectoliter. See metric

hit1, n. 8. In archery: (a) The act of hitting the target. (b) An arrow which hits the target. Usually a hit is scored according to its nearthe target. (b) An arrow which hits the target. Usually a hit is scored according to its nearness to the center.—9. In base-ball, a safe hit (see below); also, though not usually, any kind of stroke wherein the bat hits the ball.—Base hit, in base-ball, a ball hit fairly by the bataman to such a place that it cannot be caught on the fly or thrown by a fielder to first base before the runner can reach that point.—Pair hit. See *Asir1.—Free hit, in field-bockey and similar games, a hit allowed, as a penalty or otherwise, with which the opponents cannot interfere.—Half-hit, in cricket, a mistimed or misdirected hit which sends the ball into the air.—Leg-hit, in cricket, a hit to leg, that is, to that part of the field which is directly behind the bateman as he is batting. R. H. Lyttelton, Cricket and Golf, p. 33.—Bafe hit, in base-ball, a base hit; a ball that is hit within the foul-lines with such force or in such a direction that a fielder cannot catch it before it strikes the ground, or cannot, even with the most accurate play, get it to the first baseman before the runner reaches that base.—Two-base hit, in base-ball, a ball hit under such conditions as enable a runner to reach second base before the ball can be caught or fielded there. Similarly, three-base hit, etc.

hit-and-catch (hit and-kach'), n. A difficult shot in billiards. With the three balls almost in a straight-line 'tie-up,' with no cushion to aid, and too far out for a masse, the striker is required to carom by double contact, so as not wholly to sacrifice position. He must dive the first ball nearly full upon the second or his own will go wide of the mark. Out in the open the force communicated to the second ball will almost equal that imparted to the first, and the striker's ball has to travel about fifteen inches to catch up.

hit-and-miss (hit'and-mis'), a. That sometimes hits and sometimes misses. Used specifically in describing a type of governor much used on in-

times hits and sometimes misses. Used specifically in describing a type of governor much used on internal-combustion engines. This governor controls the engine by making it miss an impulse as occasion demands.

Same as *histopathologic. (nis-to-path-o-10] 1-κα1/, α. Same as *histopathologic. (his*tō-pā-thology.) The study of morbid changes in minute structures. Med. Record, March 28, 1903, p. 511.

histophysics (his-tō-fiz'iks), n. [Gr. loτός, a web, tissue, + φυσικά, physics.] The physics of the animal and plant tissues.

histophysics (his-tō-fiz'iks) for the physics of the animal and plant tissues.

histophysics (his-tō-fiz'i-ol'ō-ii), n. [Gr. loτός, a web, tissue, + φυσικά, physics.] The physics of the animal and plant tissues.

histophysics (his-tō-fiz-i-ol'ō-ii), n. [Gr. loτός, a web, tissue, + φυσικά, physics.] The physics of the animal and plant tissues.

histophysics (his-tō-fiz-i-ol'ō-ii), n. [Gr. loτός, a web, tissue, + φυσικά, physics.] The physics of the animal and plant tissues.

histophysics (his-tō-fiz-i-ol'ō-ii), n. [Gr. loτός, a web, tissue, + φυσικά, physics of the animal and plant tissues.]

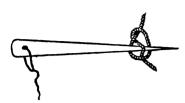
histophysics (his-tō-fiz-i-ol'ō-ii), n. [Gr. loτός, a web, tissue, + φυσικά, physics of the material.

histophysics (his-tō-fiz-i-ol'ō-ii), n. [Gr. loτός, a web, tissue, + φυσικά, physics of the minute structures. Med. histophysics (his-tō-fiz-i-ol'ō-ii), n. [Gr. loτός, a web, tissue, + φυσικά, physics of the minute structures. Med. histophysics (his-tō-fiz-i-ol'ō-ii), n. [Gr. loτός, a web, tissue, + φυσικά, physics of the minute structures. Med. histophysics (his-tō-fiz-i-ol'ō-ii), n. [Gr. loτός, a web, tissue, + φυσικά, physics of the minute structures. Med. histophysics (his-tō-fiz-i-ol'ō-ii), n. [Gr. loτός, a web, tissue, + φυσικά, physics of the minute structures. Med. histophysics of the minute structures. Med. histo

II. trans. 4. In mining, to dig or pick (pockets) to receive the ends of timbers.

physiology of the cells and tissues as dis-hitch¹, n. 4. In mining: (b) A hole or pocket tinguished from the physiology of the organs.

made to receive the end of a timber. (c) The sudden stoppage of a pumping-engine.—8. In sudden stoppage of a pumping-engine.—8. In yachting, a tack.—Marlinespike hitch (naut.), a simple way of catching the point of the marlinespike in the seizing-stuff whereby it may be hove taut.—Mid-



Marlinesnike Hitch.

shipman's hitch (naut.), several turns with the end of a rope under and over around the bight—Slippery hitch (naut.), a hitch that will not hold; a landsman's effort.

hitch² (hich), n. [Appar. California Indian: see *chi², *chigh.]

A large chub, Lavinia exilicauda, found in the waters of California. Also chi.

hitch-pin (hich'pin), n. In pianoforte-making, the pin to which a string is fastened at the end

opposite to the tuning-peg.

hitchpin-block (hich'pin-blok), n. In pianoforte-making, the bar or brace in which are the
hitch-pins.

Midshipman's Hitch.

Hitopadesha (hi-tō-pa-dā'shā), n. [Skt. hitopadesa, good instruction, < hita, good, lit. 'put,'
+ upadesa, instruction, rule, reference.] The
Sanskrit name of a collection of tales and fables compiled from the larger collection known as the Panchatantra, and forming one of the sources of the Æsopic fables of Europe.

Hittorf rays. See obscure *rays.

Hittorf's transport numbers. See transport

 \star numbers. hive, n. 6. In oyster-culture, an artificial bed prepared for spat.—Bar-hive, a hive in which the honeycomb is hung from bars.

hive-evil (hīv'ē'vl), n. A sickness to which bees are liable. N. E. D.

hive-syrup (hīv'sir'up), n. A syrup containing squill, senega, and tartar emetic; compound syrup of squill; croup syrup.

hielmite, n. See hielmite.

hionipa (hlō-nē'pā), n. [Zulu hlonipa, act respectfully or modestly; inhloni, shame.] A custom among the Zulus and certain other tribes of South Africa according to which they must show respect to certain of their relatives and to the head men of the tribe. This is done in several ways, but especially by refraining from men-tioning their names and from using any word similar in sound. This necessitates the substitution or coinage of new words, and leads to many changes in the vocabulary of the language.

of the language.

That strange custom (by no means unknown elsewhere in Africa) of "hionipa," by which a constant local change of vocabulary takes place owing to the dislike to mentioning names of things which resemble the names of relatives; so that if there be a prominent person in the tribe, for instance, whose name is actually equivalent to "ox," or even whose name sounds like the word for ox, in that village or community the ox will henceforth be known by a paraphrase or by a substituted word.

Nature, May 19, 1904, p. 57.

An abbreviation of hectometer. See metric

system.

H. M. An abbreviation (b) of Hallelujah Meter;
(c) of Home Mission or Home Missionary.

H. M. P. An abbreviation of the Latin hoc

M. M. P. An abbreviation of the Latin not monumentum posuit, erected this monument. Hoar-frost line, a curve indicating upon a diagram the pressures at which, for different temperatures, a solid and its vapor may occur simultaneously. hoary-edge (hor'i-ej), n. An American hesperiid butterfly, Achalarus lycidas, occurring in the United States from the Mississippi valley and the United States from the Mississippi valley.

eastward. Its larvæ feed on *Meibomia*.

hobl, n., 3. (b) A milling-machine cutter used in forming the teeth of worm-gears. It is of the shape of the worm which is to mesh in the interdental spaces of the gear, and in use cuts out of the blank gear this space, leaving the teeth correctly formed.

7. A master die; a steel punch cut to a certain the instead for melaine cairing dies.

design, used for making coining-dies.

hobbing (hob'ing), n. The process of cutting the threads of worm-wheels, dies, or chasers with a hob or master tap in a milling-machine or a lathe. See *hob1, 3 (b).

hobbing-machine (hol'ing-ma-shēn"), n. A milling-machine specially designed to cut gears by means of a hob. See *hob1, 3 (b). hobo (hō'bō), n. [Origin obscure.] A tramp. [Recent slang, U. S.] hobson-jobson (hob'son-job'son), n. [An Anglo-Indian corruption of the cry Ya Hasan! Ya Hosain! of the "Mohammedans as they beat their breasts in the procession of the Moham.

hock, n.—To cap the hocks. See *cap1.—Vulture hock, in fanciers' language, a tarsus clothed with stiff feathers.

hocking (hok'ing), n. The feasting and merriment of the annual hocktide festival formerly

Hock-Tuesday money. See *money. Hodgson's disease. See *disease. hodometric (hod-ō-met'rik), a. Pertaining to

or measured by a hodometer; hodometrical; odometric.

hoe¹, n.—D-hoe, a scuffle, or Dutch hoe, in which the blade is secured to the handle by curved prongs, which have, with the blade, the form of a capital D. See hoe¹, Fig. b.

hoe¹, v. i. 2. To play or dance a hoe-down. [Colloq., southern U. S.] hoe⁵, n. See *hoey.

hoe-mother (ho'murn'er), n. [hoe2 + mother1.]
The basking-shark, Cetorhinus maximus, found in the arctic seas. It reaches a length of nearly 40 feet.

nearly 40 feet.

hoe-plow (hō'plou), v. t. To dig and turn over (earth) with a hoe as a preparation for planting. [West Indies.]

The land should be ploughed or hoe-ploughed twice in the wettest season of the year.

Letter of John Castles from Grenada, read before the [Roy. Soc., May, 1890.]

hoernesite (her'ne-sīt), n. [Named for Dr. Hörnes, an Austrian mineralogist.] A hydrated magnesium arseniate, Mg₃As₂O₈ + 8H₂O, occurring in snow-white monoclinic crystals: found in Hungary. Also hörnesite. hoe-tusk (hō'tusk), n. A shark, Mustelus canis, of the family Galeidæ: found in the Atlantic on the coasts of the United States and Europe. hoey, hoe⁵ (hō-ā', hō-ē'), n. [Chinese houi.

on the coasts of the United States and Europe. hoey, hoe's (hō-ā', hō-ā'), n. [Chinese hwui, Amoy hòe, hùi, Swatow hùi, Fu-chau hwi, etc.] A society of Chinese, especially a secret society of Chinese resident in a foreign community.

Hoffman kiln. See *kiln. Hoffmann's anodyne. See *anodyne. hog!, n. 11. A small locomotive used for hauling cars cars about mines; a hogback locomotive.

In anthracite drifts steam locomotives of a small and peculiar type known as "hoys" haul the trains.

Sci. Amer., May 23, 1903, p. 392.

12. A machine for grinding logs. [Western U. S.] Dialect Notes, II. vi.—13. In ship-building, the condition of being hogged: generally used quantitatively with reference to the amount of deflection from the normal condi-

amount of deflection from the normal condition. See hog^1 , v. i., 1.

hog1, v. t. 4. To act as greedily and as selfishly as a hog in regard to (something); take more than one's share of; appropriate selfishly. [Slang, U.S.]

hogan² (hō-gan'), n. [Navaho qoghán.] A hut of the Navaho Indians, consisting of a



conical framework covered with poles, bark, and earth. The main beams turn north, south, and west, while the entrance is on the east side. Sometimes the shelters of the Pima tribes are also called hogans.

hogback, n. II. a. Resembling a hog's back in form: used specifically in describing a small locomotive which is very low in build and has no cab.

The motor or "electric mule" is a vehicle closely resembling a "hog-back" mine locomotive, and is 10 feet long by 2 feet wide and 30 inches from the rail.

Amer. Inventor, April 15, 1904, p. 173.

gears by means of a hob. See *hobl, 3 (b).

hobo (hō'bō), n. [Origin obscure.] A tramp.
[Recent slang, U. S.]

hobson-jobson (hob'son-job'son), n. [An
Anglo-Indian corruption of the cry Ya Hasan!
Ya Hosain! of the "Mohammedans as they beat
their breasts in the procession of the Moharram." Yule and Burnell.] In India, a native
festal excitement; especially the Moharram
ceremonies. Yule and Burnell.

hock!, n.—To cap the hocks. See *cap!.—Vulture
hock, in fanciers' language, a tarsus clothed with stiff
feathers.

While the feathering should be abundant, all semblance
to vulture hock, or stiff feathering, should be avoided.
U. S. Dept. Agr., Standard Varieties of Chickens, p. 14.

hocking (hok'ing), n. The feasting and merriment of the annual hocktide festival formerly
observed in England.

Hock-Tuesday money. See *money.

Hodgson's disease. caused by the fire being particularly hot in

one part of the grate.
hogging-moment (hog'ing-mo'ment), n. hogging-moment (hog'ing-mo'ment), n. In naval arch., the moment, at any given point, of the forces which tend to cause a vessel to hog: opposed to sagging-moment, that which tends to cause a vessel to sag. These moments for each point in the length of a vessel are plotted in a curve of bending-moments. See *curves of ship calculations.

Any ordinate of the latter curve represents to scale the bending moment (usually expressed in foot-tons) at the corresponding cross-section of the ship. Ordinates set off above the base-line indicate 'hogging' moments, while 'sagging moments' are indicated by ordinates set off below the base-line.

White, Naval Arch., p. 304.

hog-meat, n. 2. Pork.
hog-perch (hog'perch), n. Percina caprodes,
a percoid fresh-water fish found in the Great
Lakes and southward.

hog-plague (hog'plag), n. A fatal infectious disease of swine, producing necrotic ulceration of the intestinal mucous membrane, with sometimes a secondary involvement of the lungs; hog-cholera.

hog-pox (hog'poks), n. An acute febrile eruptive disease of swine similar to sheep-pox and smallpox, characterized by the formation of pocks in various parts of the body.

Hogshead of sugar, in the West Indies, often a definite weight of 1,600 pounds.

hog's-pence (hogz'pens), n. Roman coins found in Leicestershire: so called from being turned up by swine.

turned up by swine.

hog-tie (hog'ti), v. t.; pret. and pp. hog-tied, ppr. hog-tying. To tie as a hog is tied, all four feet together.

Mr. Masterson wore a narrow crimson sash wound twice about his waist. . . and when [he] donned it, . . . he explained the same as something wherewith he might hogite steers when in the course of duty he must rope and throw them. Doubtless the sash, being of a soft, reluctant texture and calculated to the very tight into knots that would not slip, was of the precise best material with which to hogite steers.

A. H. Lewis, Sunset Trail, p. 3.

The upper structure of the boat (which is stayed by means of hog trusses and 22-foot King posts) covers its full width and the rear eighty feet of its length.

Elect. World and Engin., Oct. 1, 1904, p. 559.

hogweed, n. 2. In the West Indies, any one of several plants of the genus Boerhaavia, especially B. erecta, which is much relished

hohlflute (hōl'flöt), n. [G. hohlflöte, < hohl, hollow, + flöte, flute.] In organ-building, a fluestop of metal which gives a dulh hollow tone; it is made in three or four sizes or pitches. Also holflute.

hohl-quint (hol'kwint), n. [G.] In organ-building, a quint stop of the hohlflute kind. hohmannite (hō'man-īt), n. Same as *amaran-

hoi (hō'i), n. [Polynesian.] In Hawaii and Tahiti, the common yam, Dioscorea sativa. Before the introduction of the potato it was

Before the introduction of the potato it was cultivated for the supply of ships.

hoist, n.—Builders' hoist, a hoisting-machine of a portable or semi-portable type, having the boiler, engine, and drum on one bed, for use in raising building materials in structures in process of erection.—Hoist-conveyer.—See *conveyer.—Traveling hoist, any form of hoist in which the hoisting-motor or-machine is arranged to travel along an elevated trackway. In the electric traveling hoist, the motor, gearing-blocks, and hoisting-ropes are on a trolley which is supported on wheels that run on the flanges of an I-beam or other form of beam.

In some hoists the operator travels in a cab suspended from the track, operating the motor to lift the load and also to cause it to travel along the track.—Tripping hoist, a hoist which trips or tips the bucket at a prescribed point, thus emptying the load automatically. hoistaway (hoist'a-wā), n. An elevator; a hoist; a lift; a device for raising or lowering heavy weights.

heavy weights.
hoist-hole (hoist'hōl), n. An elevator-shaft;
a hole or opening through which materials are hoisted.

hoisted.

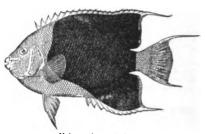
hoisting-block (hois'ting-blok), n. The lower of the two blocks of a block-and-fall; the block which moves with the load.

hoki (hō'kē), n. [Maori.] A New Zealand fish, Coryphænoides novæ-zelandiæ, belonging to the family Macruridæ, which are deep-sea gadoids. See Tasmanian *whip-tail. Austral doids. See Tasmanian *whip-tail. Austral English.

English.
hokko, n. See hocco.
hola (hō'lā), n. [Hawaiian.] A name in
Hawaii of the root and stalk of the ahuhu,
Cracca purpurea. See *ahuhu and Tephrosia.
Holacanthinæ (hol'a-kan-thi'nē), n. pl. [NL.,
< Holacanthus + -inæ.] A subfamily of butterfly-fishes of the family Chætodontidæ, typified
by the gamus Holacanthus.

by the genus Holacanthus.

Holacanthus (hol-a-kan'thus), n. [NL., ζ Gr. δλος, whole, + ἀκανθα, spine.] A genus of



Holacanthus tricolor (From Bulletin 47, U. S. Nat. Museum.)

butterfly-fishes of the family *Chætodontidæ*. They are characterized by the many spines in the dorsal fin, and by the presence of a strong spine on the preopercie. Many of the species are brilliantly colored. He chicaris is the angel-fish of the Florida Keys. H. tricolor is found in the same region.

holagogue (hol'a-gog), n. [Gr. $\delta\lambda$ oc, whole, + $\dot{a}\gamma\omega\gamma\delta$ c, a leader.] In med., an agent supposed to be capable of removing all morbid humors. Holanthias (hō-lan'thi-as), n. [NL., ζολος, whole, + ἀνθίας, a certain fish (⟨ἀνθος, flower).] A genus of fishes of the family Serranidæ found in tropical seas.

Holarctic region or realm. See *region. holarthritis (hol-är-thri'tis), n. [NL., < Gr. δλος, whole, + ἀρθρον, joint, + -itis.] Inflammation involving all or most of the joints of

the body.

Holconotis (hol-kō-nō'tī), n. pl. [NL., pl. of Holconotus.] A group of the Embiotocidæ, or viviparous surf-fishes: found in the waters of the Pacific from California to Japan.

hog-truss (hog'trus), n. The main truss or frame of a dredge or boat. See cut under hog-frame.

The upper structure of the boat (which is stayed by means of hog trusses and 22-foot King posts) covers its full width and the rear eighty feet of its length.

The Pacinc from Camornia to Japan.

Holconotus (hol-kō-nō'tus), n. [NL., \langle Gr. $\delta \lambda \kappa \delta \zeta$, drawing, trailing ($\langle \epsilon \lambda \kappa \epsilon \iota \nu \rangle$, draw, trail, tow), $+ \nu \tilde{\omega} r \sigma \zeta$, back.] A genus of surf-fishes, of the family Embiotocidæ, found on the coast of California. H. rodoterus is the common species.

species.
hold¹, v. I, trans.—Holding-out catch. See *catch¹.

To hold a good full, a good luff, a good wind. See *full¹, *luff², *wind².—To hold of. (b) To belong or pertain to; depend on or upon.

pertain to; depend on or upon.

A spark disturbs our clod;
Nearer we hold of God
Who gives, than of His tribes that take, I must believe.

Browning, Rabbi Ben Erra, stanza 5.

To hold out, (c) In poker and other card-games, to hold (certain cards) in the sleeve or elsewhere until there is a valuable stake for which to play.—To hold the land, the luff, the wind. See *land!, *luff?, *wind2.—To hold to. (a) To adhere to :as, he still holds to his former statement. (b) Same as hold!, v. i., 7.—To hold up. (d) To refuse to give up (the commanding card of an adversary's suit), especially in whist and bridge. (e) To hold or back up (a rivet which is being headed over).

If interns. 6 (h) Specialculty in gashery.

II. intrans. 6. (b) Specifically, in archery, to make a short pause, after drawing a bow, for fixing the aim and preparing to loose the bowstring.—7. Of a female animal, to retain the spermatozoa of the male so that she may become pregnant.— To hold true, to remain true; be applicable or indisputable: as, "the saying of the poet holds true in a large degree." S. Smiles, Character, ii.

hold1, n. 8t. In old Eng. hist., the title of an officer in the Danelaw corresponding to the high reeve among the English.—Referee's hold, in wrestling, a hold given to opponents by the referee.— Shore hold, in lumbering, the attachment of the hawser of a raft of logs to an object on the shore.—Tail hold, in lumbering, a means of obtaining increased power, in moving a log by tackle, by passing the cable through a block attached to the log and fastening the end to a stationary object, so that hauling on the other end gives twice the power which would be attached by attaching the cable directly to the log.

Shore hold, in lumbering, the attachment of the hawser of a raft of logs to an object on the shore.—Tail hold, in the coast of Cuba.

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Shore hold, in lumbering, the attachment of the family Triacanthidæ, found on the coast of Cuba.

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Shore hold, in lumbering, the cable diversity of the family Triacanthidæ, found on the coast of Cuba.

Shore hold, in lumbering, the cable diversity of the logs.

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Shore hold, in lumbering the cable diversity of the log

holding, n. 6. In archery, the short pause after drawing a bow to fix the aim and make ready for loosing the bowstring. See *hold¹, Hollybus sandstone.

heavy casting which serves to hold a portable

netto hold-on, an electromagnet which it is in use.—Magnetic hold-on, an electromagnet which serves to hold a tool to any iron or steel surface. See magnetic **chuck*.

hold-over (höld'ö'ver), n. 1. A place of detention; a lock-up. New York Times, July 15, 1905.—2. An office-holder who remains in office of interesting the server of the

fice, or in possession, beyond his regular term: sometimes used attributively.

hold-stringer (hold string er), n. Naut., a combination of angle-bars and plates, fitted on the inside of the frames of a vessel between the upper turn of the bilge and the lowest complete tier of beams.

bole 1.— Tap-sized hole, a hole of such a diameter as to be ready to receive the tapered end of a screw-cutting tap and admit the cutting of a full thread inside of it. It has the diameter of the tap measured between the bottoms of the threads on opposite ends of a diameter.

holectypoid (ho-lek'ti-poid), a. [Holectypoid-a.] Having the characters of, or related to, the Holectypoida.

poid-a.] Having the characters of, or reason to, the Holectypoida.

Holectypoida (ho-lek-ti-poi'dä), n. pl. [NL., \langle Holectypus + -oida.] An order of sea-urchins or Euechinoidea. They have an actinal, central persone, the periproct situated beyond the dorsocentral system in the posterior interambulacrum, and a pair of pores, or only one pore, to an ambulacral plate.

Holectypus (ho-lek'ti-pus), n. [Gr. $\delta\lambda o_{\zeta}$, entire, + $\epsilon\kappa\tau\nu\pi\sigma_{\zeta}$, worked in relief, \langle $\epsilon\kappa$, out, + $\tau \ell \pi\tau \epsilon u$, strike.] A genus of Euechinoidea typical of the Holectypoida. They have straight, narrow ambulacra and wide interambulacra; large decagonal peristome; and pyriform periproct situated between the peristome and the posterior edge of the test. They occur in Jurassic and Cretaceous rocks.

holely, adv. An amended spelling of wholly.

And ϵ a

nounte, n. Same as *hondfute.
holiday, n.—The holidays. Specifically—(a) School vacation. (b) The Christmas season. [U. S.]
holidayer (hol'i-dā-ēr), n. One who takes or makes a holiday; an excursionist or picnicker on a holiday; a holiday pleasure-seeker.
holkion (hol-ki'on), n.; pl. holkia (-ä). [Gr. δλκείον, also δλκαίον.] In Gr. archæol., a large how!

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power which would be attained by attaining the carried to the log.

hold's n.—Hold stanchions. See **stanchion.—Lower hold (naut), the second space beneath the spar-deck, or the space under the lower deck, of a vessel having two decks.—To break out the hold, to begin to unload the cargo of a ship; break bulk.

hold-all (hold'âl), n. A portable bag or case used in traveling, etc., for holding miscellane-space under the lower deck, of a vessel having two decks.—Holdow-ware, n. 2. China, glass, and other wares in the form of cups, tumblers, tea-pots, etc.: in distinction from flat ware, such as plates, saucers, or the like. Webb, Industrial homocracy, II. 685.

care of a ship; break bulk.

hold-all (hold'âl), n. A portable bag or case used in traveling, etc., for holding miscellaneous articles.

hold-down (hold'doun), n. A device to prevent a machine or piece of apparatus from jumping or shaking: as, the hold-down of a saw-table.

holder-up (hol'der-up), n. One who holds a sledge or anvil against a rivet which is being headed; also, a device for holding rivets by air-pressure while they are being driven.

holdfast, n. 3. The root-like organ of attachment developed by many of the algæ. Also haptere and rhizoid.

Kelp hold-fasts, of which none grow in the immediate vicinity, were taken in abundance by the dredge.

Science, Jan., 1902, p. 59.

holding, n. 6. In archery, the short pause after drawing a bow to fix the aim and make ready for loosing the bowstring. See *hold!

Hollylugh sandstone. See *kald!

Hollylugh sandstone.

See *sandstone v. i., 6 (b).

holding-boom (hôl'ding-böm), n. See *storage-boom.

holding-plate (hôl'ding-plāt), n. Same as an-chor-plate, 1.

hold-on (hôld'on), n. Any weight, base, or heavy casting which serves to hold a north transfer of the storage of the s

Holman's formula. See *formula.

Holman's formula. See *formula. holm-berry (hōlm'ber'i), n. See *berry¹. holm-gang (hōlm'gang), n. A going to a holm to engage in mortal combat; the duel then fought. Kingsley.

Holmgren test. See *test¹.

Holmia¹ (hol'mi-ā), n. [NL., named after G. Holm, a Swedish geologist.] A genus of trilobites belonging to the family Olenidæ and characterized by possessing 10 free segments. characterized by possessing 10 free segments and a small unsegmented pygidium. It occurs

in the Lower Cambrian rocks.

holmia² (hol'mi-ä) n. [NL.: see *Holmia¹.] In chem., one of the rare earths, found with yttria in gadolinite, and supposed to be the

holmos (hol'mos), n.; pl. holmoi (-moi). [Gr. b\lambda\lam

Another hindrance to the extension of many deep-sea species is that they are holobenthic, that is, do not pass through a free swimming larval stage.

Encyc. Brit., XXXIII. 935.

same as *broken-backea, σ.

hollower (hol'ō-er), n. A machine for hollowing out the inner sides of the staves for a holocarpic (hol-ō-kār'pik), a. [Gr. δλος, whole, + καρπός, fruit, + -ic.] In certain unicellular alge, noting the transformation of the simple vegetative body into a sporangium or a spore. holocarpous (hol-ō-kär'pus), a. [Gr. δλος, whole, + καρπός, fruit, + -ous.] Same as *hol-

ocarpic. nolluschick (hol'us-chik), n.; pl. hollus- Holochoanites (hol'ō-kō-a-nī'tēz), n. pl. [NL., chickie (-chik-i). An American corruption, in prop. singular, < Gr. δλος, entire, + χόανος, a Alaskan waters, of holostiak, a young male funnel, + -ites, E. -ite².] A suborder of the prop. singular, $\langle Gr. \delta \lambda \sigma_s \rangle$ entire, $+ \chi \delta \alpha v \sigma_s$ a funnel, + -ites, E. $-ite^2$.] A suborder of the nautiloid cephalopods in which the funnels of siphuncular segments reach from the septum of origination to the next septum apicad or be-

yond this. or holochoanitic (hol'ō-kō-a-nit'ik), a. Of or resembling the Holochoanites; having the struc-ture of the siphuncular wall as in the Holo-

holochordate (hol- $\bar{\phi}$ -kôr'dāt), a. [Gr. $\delta\lambda\phi\varsigma$, whole, $+\chi o\rho\delta\theta$, chord, $+-ate^1$.] Having the



Young Amphioxus during the adolescent period. (After Kowalevsky.) a., notochord extending entire length of body; b., spinal chord; c., anus; d., intestine; c., atrial pore; f., liver; g. gill-slit, with tongue-bar in act of formation; h. gill-slit; f., oral tentacles. (Magnifed.) (From Marshall's "Vertebrate Embryology.")

chords or notochord extending the full length

of the body, as Amphioxus. holochroal (hō-lok'rō-al), a. [Gr. $b\lambda o_{\zeta}$, whole, $+ \chi \rho \delta a$, the skin, $+ -al^{1}$.] In the compound eyes of trilobites and other crustaceans, having a corneous layer extending continuously over the entire visual surface, as in *Proëtus*, Asaphus, etc. Contrasted with *schizochroal.

holoclastic (hol-ō-klas'tik), a. [Gr. δλος, whole, + κλαστός, broken.] Noting clastic rocks of aqueous origin as distinguished from those of

volcanic origin (hemiclastic). Senft, 1857. **Holocystis** (hol-ō-sis'tis), n. [NL., < Gr. δλος, entire, + κύστις, a bladder.] A genus of Cretaceous corals having characters of the Tetratap and admit the cutting of a full thread inside of it. It has the diameter of the tap measured between the bottoms of the threads on opposite ends of a diameter.

hole¹, v. i.—To hole out. (a) In golf, to play the ball into one of the holes of the course: as, to hole out in four strokes. (b) In billitards, to win by pocketing. Some billiard games of mixed pockets and caroms require the final shot to be a carom; others insist upon a pocket.—To hole up, to retire to a burrow for winter; to den up, hole, a., n., and adv. A simplified (and the earlier) spelling of vehole.

holecty-indic (hol-mos), a. [Holecty-holmos), a. [Holecty-holmos], a. [Holmos], a. [Ho

simply isomorphic.

simply isomorphic.

hologonic (hol-ō-gon'ik), a. [Gr. δλος, whole, + γωνία, angle, + -ic.] Same as *holoacral.
hologonidium (hol'ō-gō-nid'i-um), n.; pl. hologonidia(-i). [Gr. δλος, whole, + NL. gonidium.] A group of algal cells invested with fungus threads which, under proper conditions, may reproduce the thallus of a lichen. Also

ments of water, but also of hydrogen dioxid. holoacral (hol- $\tilde{\phi}$ - \tilde{a}' kral), a. [Gr. $\tilde{o}\lambda o \varsigma$, whole, + $\tilde{a}\kappa \rho o v$, summit, + a l l.] In math., having all the summits opposite to similar summits. See summit, 3. holoaxial (hol- $\tilde{\phi}$ -ak'si-al), a. [Gr. $\delta\lambda o \varsigma$, whole, + $\tilde{c}\delta \rho a$, seat, base.] A holohedral (holosymmetric, 2. holoaxial (hol- $\tilde{\phi}$ -ak'si-al), a. [Gr. $\delta\lambda o \varsigma$, whole, + $\tilde{c}\delta \rho a$ saxis, + -a l l.] Noting a form of crystal see *holosymmetric, 2. holohexagonal (hol- $\tilde{\phi}$ -hek-sag' $\tilde{\phi}$ -nal), a. [Gr. $\delta\lambda o \varsigma$, whole, + $\tilde{c}\delta \gamma \omega v o \varsigma$, six-cornered, + -a l l.] See *holosymmetric, 2.

holely, adv. An amended spelling of wholly.
holesale, n., a., and v. An amended spelling of wholesale.
holesum, a. An amended spelling of wholesame.
holesum, a. An amended spelling of wholesame.
holetrous (hǫ-lē'trus), a. Having the characters of the Holetra.
holflute, n. Same as *hohlflute.
holiday, n.—The holidays. Specifically—(a) School variety (b) The Christmas according to the property which can coexist, but without planes of symmetry which can coexist, but without planes of symmetry.

A. Miers.

holosymmetric, 2.
holohyaline (hol-ō-hī'a-lin), a. [Gr. δλος, whole, † μάλωνος, of glass.] In petrog., completely glassy; without crystals.
holo-isometric (hol'ō-isometric, 2.
holohyaline (hol-ō-hī'a-lin), a. [Gr. δλος, whole, † μάλωνος, of glass.] In petrog., completely glassy; without crystals.
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holohyaline (hol-ō-jo-mi'a-lin), a. [Gr. δλος, whole, † μάλωνος, of glass.] In petrog., completely glassy; without crystals.
holohyaline (hol-ō-jo-mi'a-lin), a. [Gr. δλος, whole, † μάλωνος, of glass.] In petrog., completely glassy; without crystals.
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holo-isometric, 2.
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holo-isometric (hol'ō-isometric), a. See *holosymmetric, 2.
holohyaline (holo-ō-bon'tik), a. [Gr. δλος, whole, † μάλωνος, of glass.] In petrog., completely glassy; without crystals.
holo-isometric (holo-jo-bon'tik), a. See *holosymmetric, 2.
holohyaline (holo-ō-bon'tik), a. [Gr. δλος, whole, † μάλωνος, of glass.] In petrog., completely glassy; without crystals.
holohyaline (holo-jo-bon'tik), a. [Gr. δλος, whole, † μάλωνος, of glass.] In p

ing on the bottom under the water and nowhere else. See *benthos, *benthic.

Holometopa (hol-ō-met'ō-pā), n. pl. [NL.. < Gr. δλος, whole, + μέτωπου, front, face.] In Another hindrance to the extension of many deep-sea including the family Conopidæ and the acalyptrate Muscidæ.

holomorphic, a. 2. (b) Noting a function of bowl.

Holland process. See *process.

Hollander, n. 2. [l. c.] In paper-manuf., a beating-engine or beater; a Holland beater. See beating-engine.

Hollardia (ho-lär'di-ĕ). n. [NL. (Poey, 1858 or 1861), named for Henri Hollard, a French professor of zoölogy.] A genus of trigger
Brusting-engine, m. m. pl. 3. A subclass of the process.

holomorphic, a. 2. (b) Noting a function of a complex variable which is continuous, one-valued, and has a derived function when the variable moves in a certain region of the plane: so called to indicate that it is like an integer function for which this property holds throughout the entire plane.

Holobranch (hol'ō-brangk), a. and n. [Gr. δλος a complex variable which is continuous, one-valued, and has a derived function of valued, and has a derived function of the plane: branchial arch provided with a pair of hemibranch or half-gills: said of the gills of fishes.

II. n. A gill having filaments on both of its lower and posterior edges.

Holomorphic, a. 2. (b) Noting a function of a complex variable which is continuous, one-valued, and has a derived function of valued, and has a derived function of the plane: branchial arch provided with a pair of hemibranch (hol'ō-brangk), a. and n. [Gr. δλος a complex variable which is continuous, one-valued, and has a derived function of valued, and has a derived function of the plane: a complex variable which is continuous, one-valued, and has a derived function of valued, and has a derived function of the plane: a complex variable which is continuous, one-valued, and has a derived function of the plane: a complex variable which is continuous, one-valued, and has a derived function of the plane: a complex variable which is continuous, one-valued, and has a derived function of the plane: a complex variable which is continuous, one-valued, and has a derived function of the plane: a complex variable which is continuous, one-valued, and has a derived function of the plane: a complex variable which is continuous, one-valued, and has a derived fu

Under this heading we may distinguish two cases, in one of which the entire lost part is at once, or later, replaced—holomorphosis; in the other the new part is less than the part removed—meromorphosis.

T. H. Morgan, Regeneration, p. 24.

holoparasite (hol-ō-par'a-sit), n. [Gr. δλος, whole, + παράσιτος, parasite.] A completely parasitic plant. Compare *hemiparasite.

Hologarasites, which live entirely at the cost of the organic substance of their host, like holosaprophytes are devoid of chlorophyll and, if phanerogams, develop scales in the place of foliage-leaves.

A. F. W. Schimper (trans.), Plant-Geog., p. 203.

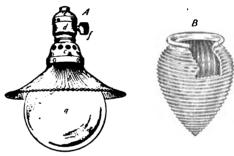
holoparasitic (hol'ō-par-a-sit'ik), a. [holo-parasite + -ic.] Pertaining to or of the nature of a holoparasite.

The degree of connexion between the two and the dependence of the parasite upon the host vary between the completeness of that of holoparasite Rhizanths, in which little more than the flower of the parasite is visible upon the outside of the stem of the host and the parasitism is absolute, and the limitation of that of the hemiparasitic Rhinanthee, in which to all appearance there is an independent autotrophic geophyte.

Encyc. Brit., XXV. 439.

Holopea (hol-ō-pō'ä), n. [NL., \langle Gr. $\delta \lambda \phi_c$, entire, + $\omega \psi$ ($\omega \pi$ -), face.] A genus of Gasteropoda belonging to the family Littorinidæ. It is characterized by a short conical shell and roundly oval aperture with entire margin, and occurs in the Silurian and Devonian rocks.

holophane (hol'ō-fān), n. [Gr. δλος, whole, + -φανης, < φαίνεσθαι, appear.] A trade-name of



Holophane.

d, meridian lamp with holophane reflector: a, bulb: b, holo-ane reflector; c, reflector-holder; d, socket-cover; e, socket-cap; key. B, holophane globe.

a glass globe or reflector for electric or other lights, of clear glass, pressed, either only on the outer surface or on both surfaces, with prismatic corrugations: in the latter case the prisms of the inner surface are at right angles to those of the outer surface and are arranged so as to scatter the transmitted light in the special manner required.

holophrase (hol'o-fraz), n. Same as *holophrasm. See holophrasis.

phrasm. See notoparasis.
holophrasm (hol'ō-frazm), n. [Irreg. formed from holophrasis.] A holophrastic expression. Amer. Anthropologist, Oct.—Dec., 1900, p. 615.
holophyte (hol'ō-fīt), n. [Gr. δλος, whole, + φυτόν, plant.] In bot., a plant which manufactures its own food, being in no sense saprophytic or parasitic.

holophytic, a. 2. In bot., having the character of a complete plant in point of nutrition; autotrophic: said of ordinary green plants as opposed to parasites and saprophytes.

holoplankton (hol-ō-plangk'ton), n. [Gr. δλος, entire, + NL. plankton.] The plants and animals that pass their whole life swimming or floating in the water, considered collectively and in contrast with those that float or swim for only a part of their lives, passing the rest upon or in the bottom. See *hemibenthic, *holobenthic, *hemiplankton, *holoplanktonic,

holoplanktonic (hol o plangk-ton ik), a. [holoplankton + -ic.] Living in the water of the sea throughout life: contrasted with meroplanktonic (which see). Haeckel (trans.), Planktonic Studies, p. 583.

holopneustic (hol-op-nū'stik), a. [Gr. δλος, enmany pairs of external openings to the air.

Most adult insects are holopneustic, being provided with a tracheal system which communicates with the outer air through many pairs of stigmata or external apertures.

holopodous (hō-lop'ō-dus), a. Belonging to or characteristic of the family Holopodidæ.

holoptic (hō-lop'tik), a. [Gr. δλος, whole, + όπτως, of seeing.] In entom., having the eyes of the two sides meeting in a line on top of the head, as in many male dipterous insects.

ra-kis'ki-sis), n. [NL., \langle Gr. $\delta \lambda \alpha_{S}$, whole, + $\delta \alpha_{X} \alpha_{S}$, spine, + $\sigma_{X} \delta \alpha_{S}$, division.] Spina bifida extending the entire length of the spine.

holorhiny (hol-ō-rī'ni), n. [Gr. $\delta\lambda\alpha_{\mathcal{S}}$, whole, $+\dot{\rho}i_{\mathcal{S}}$ ($\dot{\rho}i\dot{\nu}$ -), nose, $+\cdot y^3$.] In ornith., the fact or condition of having holorhinal nostrils, that is, of having the narial openings more or less oval in shape and with their posterior margin in advance of the posterior ends of the premaxillaries.

holosaprophyte (hol-ō-sap'rō-fit), n. [Gr. δλος, whole, + E. saprophyte.] A completely saprophytic plant. See extract under *holonarasits.

holosaprophytic (hol'ō-sap-rō-fit'ik), a. Per

holosaprophytic (hol'ō-sap-rō-fit'ik), a. Pertaiuing or relating to a holosaprophyte.
holospheric (hol-ō-sfer'ik), a. [Gr. ōλος, whole,
+ σφαίρα, sphere, + -ic.] Of the entire globe.
— Holospheric anomaly, the departure of a local temperature from the holospheric normal for that latitude.—
Holospheric isabnormal, a line connecting places having the same holospheric anomaly. Sella, 1896.— Holospheric normal, the average temperature of the whole of any two circles of equal latitude in the northern and southern hemispheres. Sella, 1896.
holostiak (ho.los-twik') n. pl. holostiaks or

holostiak (ho-los-tyäk'), n.; pl. holostiaks or (after Russian) holostiaki (-tyä'ki). [Russ. kholostyäkü (pl. -kii), a bachelor.] A young male fur-seal; a bachelor seal. Compare *holostyäkü (pl. -kii) luschick.

He carefully distinguishes the various classes of seals, . . . the polusikatchi, or young bulls; the holustiaki, or bachelors. L. Stejneger, Russian Fur-seal Islands, p. 60.

Holostomatidæ (hol'ō-stō-mat'i-dē), n.
[NL.] An erroneous form for Holostomida Holostomidæ (hol-ō-stom'i-dē), n. pl. [NL., \(\) Holostomum + -idæ.] A family of trematoids of the order Malacotylea. They have two

toids of the order Malacot, suckers and a peculiar adhesive apparatus behind the ventral sucker on the anterior region of the body, and the body divided into an anterior flattened and a posterior cylindrical region. The family contains the genera Holsotonum, Diplostomum, Homistomum, and Polycotyle, found mostly in the alimentary canal of birds, reptiles, and mammals, rarely in amphibia and fishes.

Holostomum (hō-los 'tō-mum), n. [NL., < Gr. δλος, whole, + στόμα, mouth.] The typical genus of the family Holostomidæ. Nitzsch, 1816.

holostylic (hol-ö-stil'ik), a. [holostyl-y + -ic.] Relating to or having the condition of the visceral arches known as holostyly.

holostyly (hō-los'ti-li), n. [Gr. $\delta\lambda o c$, entire, + $\sigma \tau \nu \lambda o c$, pillar, + $-y^3$.] The condition of having the palatoquadrate fused with the cartilaginous cranium and the second visceral arch entire and free from the cranium. It occurs in the chimeras or Holocephali. W. K. Gregory, 1904.

holosymmetric, a. Specifically—2. Having the highest degree of symmetry possible under the given system, and hence showing the maximum number

Holostomida (Metastatica) Hemistomum of Birds. Hemistomum of Birds. Hemistomum of Lettratum Dies., trom the gut of Lutra brasiliensis, ventral view (from Bronn, after Brandes).

a, oral sucker; b, openings of glands, c; d, ventral adhesive apparatus (the ventral sucker is just in front of this); c, uterus (the opening of the uterus is rather indistinctly rendered, just below the lower c); f, ovary; q, testis; h, shell-ylands; f, vesicula seminalis; f, yolk glands.

(From Sedgwick's "Zoology.") of faces for each form. "Zoology.")

The holosymmetric forms under each of the crystalline systems are sometimes designated, respectively, as holo-hexagonal, etc.—Holosymmetric group. See *symmetric face holosymmetric group.

Holostomida (Metasta-

holosystematic (hol'ō-sis-te-mat'ik), a. Same

bloc, enHaving the air. vided with contrair ritures. ing to or $\delta \lambda c$, whole, + L. tessera, a square, + - al^1 .] See *holosymmetric, 2. holotetragonal (hol* $^{\circ}$ -e-trag* $^{\circ}$ -nal), a. [Gr. $\delta \lambda c$, whole, + L. tessera, a square, + - al^1 .] See *holosymmetric, 2.

biol., the perfect replacement or regeneration of a lost part, as contrasted with *meromorphosis.

Holops (hol'ops), n. [NL., ⟨ Gr. δλος, whole, holotonia (hol-ō-tō'ni-ä), n. [NL., ⟨ Gr. δλος, whole, holotonia (hol-ō-tō'ni-ā), n. [NL., ⟨ Gr. δλος, whole, holotonia (holotonia (holoto

holotonic (hol-ō-ton'ik), a. Relating to or affected with holotonia. holotrichal (hō-lot'ri-kal), a. Same as holot-

holoptychiid (hol-op-tik'i-id), n. One of the holotrochal (hō-lot'rō-kal), a. [Gr. $\delta\lambda\alpha_{\zeta}$, whole, $Holoptychiid\alpha$.

holotrachischisis, holorrhachischisis (hol'ō-ra-kis'ki-sis), n. [NL., \langle Gr. $\delta\lambda\alpha_{\zeta}$, whole, + $\lambda\alpha_{\zeta}$, spine, + $\alpha\chi\alpha_{\zeta}$, division.] Spina bifida

London, 1901, H. 716.

London, 1901, H. 716.

holotropical (hol-ō-trop'i-kal), a. [Gr. δλος, whole, + -τροπος, < τρέπειν, turn, + -ic-all.] Same as tropicopolitan.
holotype (hol'ō-tīp), n. [Gr. δλος, entire, + τίπος, type.] A particular individual selected as the type of a species, or the only specimen known at the time of publication of the spe-

A holotupe, therefore, is always a single individual, but may embrace of ther portions. sce one or more parts, as the skin, skeleton, or ions.

Science, April 23, 1897, p. 638. holoxid (hol-ok'sid), n. [Gr. ολος, whole, +

oxid.] In chem., a compound assumed to contain as a constituent molecular instead of

atomic oxygen. Holstein-Friesian cattle. See *cattle.

Holy City. (b) A nickname for Adelaide, South Autralia. E. E. Morris, Austral English.— Holy-Cross toad. Same as Catholic *frog.

holzin (hölt'sin), n. [G. Holz, a German surname (†), + -in².] A solution of formalin in methyl alcohol, used as a deodorizer.

holzinol (hölt'si-nol), n. [holzin + -ol.] A mixture of menthol and formalin.

hom³ (höm) n. Same as *homs.

hom³ (hōm), n. Same as *homa.
homa (hō'mä), n. [Middle Pers. hōma, Avestan haoma, = Skt. soma: see soma².] Same as soma2.

as soma².

The Soma or Homa ceremony consisted in the extraction of the juice of the Homa plant by the priests during the recitation of prayers, the formal presentation of the liquid extracted to the sacrificial fire, the consumption of a small portion of it by one of the officiating priests, and the division of the remainder among the worshippers. As the juice was drunk immediately after extraction and before fermentation had set in, it was not intoxicating. The ceremony seems to have been regarded, in part, as having a mystic force, securing the favor of heaven; in part, as exerting a beneficial influence upon the body of the worshipper through the curative power inherent in the Homa plant.

G. Rawlinson, Seven Great Monarchies, The Third (Monarchy, II. iv.

The word is used erroneously in the following

quotation: Persia was accustomed to set her own peculiar seal upon her figured webs by mingling in her designs the mystic "homa." . . Borrowed perhaps originally from Hebrew tradition, this symbol of "the tree of life" had in the nothing objectionable to the Christian, the Jew, or

the Moslem.

D. Rock, S. K. Handbook, Textile Fabrics, p. 52. Homacanthus (hom-a-kan'thus), n. [NL., ζ Gr. ομός, equal, + ἀκανθα, a spine.] A group of slender, bilaterally symmetrical fish spines (probably belonging to the cestraciont sharks) found in the Devonian and Carboniferous

Homacodontidæ (hom'a-kō-don'ti-dē), n. pl. [NL. Homacodon, the type genus, + -idæ.] A family of small, extinct, artiodactyl, ungulate mammals, which contains species about the size of rabbits. The brain-case is large, the orbit open, and the molars have conspicuous, conical tubercles. Nanomery x and Bunomery x are other genera. The species occur in the Ecoene of North America and Miocene of Europe. Marsh, 1894.

Homalocenchrus (hom a-lō-sen krus), n. [NL. (Micer 1750)] in allusion, to the compressed

(Mieg, 1760), in allusion to the compressed spikelets and the general resemblance of the plant to millet-grass, Milium effusum: \langle Gr. $\delta\mu a \lambda \delta c$, flat, compressed, $+\kappa \epsilon \gamma \chi \rho o c$, millet.] A genus of grasses. See Lecroia.

genus of grasses. See Lecrsia.

Homalodontotheriidæ (hom'a-lō-don-tō-thē-rī'i-dē), n. pl. [NL. Homalodontotherium, the type genus, + -idæ.] A family of extinct artiodactyl mammals, of the suborder Ancylopoda, which contains a number of genera of large mammals from the Santa Cruz (Miocene?) of Patagonia. The skull is massive limbs teats and verteable covers eligibly flat. limbs stout, and vertebral centra slightly flat-

tened. Ameghino, 1889.
homalographic (hom'a-lō-graf'ik), a. [homalograph-y+-ic.] Pertaining to or by means of

lograph-y +-ιε.] Pertaining to or by means of homalography: noting a method of anatomical demonstration by means of a series of plane sections, usually of a frozen body.

homalography (hom-a-log ra-fi), n. [Gr. ομαλός, level. plane, + γράφειν, write.] In anat., the study of anatomical structures by means of release sections of the body. of plane sections of the body.



homaloid (hom'a-loid), n. [Gr. όμαλός, level, plane, + εἰδος, form.] A homaloidal space or universe.

Homaloidal surface. See *surface.

Homalonati Suttace. See *surjace. **Homalonotus** (hom 'a-lō-nō'tus), n. [Gr. $\delta\mu$ a- $\delta\omega$; smooth, + ν aroc, back.] A genus of trilobites belonging to the family Calymmenidæ. They are characterized by a broad, flat body in which the lobation is very indistinct, and are usually of large size; they prevailed in the late Silurian and early Devonian.

The provided by the action of barium hydroxid solution on brain matter. It are constituted to the constant of the provided by the action of barium hydroxid solution on brain matter.

homalotropous (hom-a-lot'rō-pus), a. [Gr. ομαλός, level, +-τροπος, < τρέπειν, turn, + -ous.] In bot., growing in a horizontal direction. Noll

homaxial (hō-mak'si-al), a. [Gr. δμός, the same, + L. axis, axis, + -all.] Same as homax-

The child is still a home-ord, and in the numanties above all, this sentiment must find a place right through into boyhood.

Nature, Feb. 5, 1903, Sup., p. v.

homelyn (hōm'lin), n. [Also homlin, hommelin; origin obscure.] The rough ray, Raja

maculata, found on the coasts of Europe. [Gr.

homeochronous (hō-mē-ok'rō-nus), a. [Gr. ὁμοιος, of the same appearance, like, + χρόνος, time.] Same as *homochronous.

homeophony (hō-mē-of'ō-ni), n. [Gr. δμοιος, of the same nature, + φωνή, voice, sound.]

Similarity of sound.

homeopraxis (hō'mē-ō-prak'sis), n. [Gr. $\delta\mu$ oιος, of the same nature, $+\pi\rho$ ā ξ ι c, doing, action.]

A similar action or a like development; a parallel evolution.

This is a phenomenon of "dynamic convergence," which the author calls "homeopraxis." It is, indeed, very striking that the rightful tenant and the insinuated parasite which replaces it should have similar adaptations, both structural and functional, securing emergence. There is a parallel adaptation of host and parasite to the same conditions.

**Jour. Roy. Micros. Soc., Dec., 1904, p. 649.

homer¹, n. 2. In base-ball, a home run. Homerist (hō'me-rist), n. 1. A Homeric scholar; a student or an admirer of Homer or his poems -2. An imitator of Homer or his

Homerologist (hō-me-rol'ō-jist), n. One who is versed in Homerology.

homested, n. and v. A simplified spelling of homestead.

homester (hom'ster), n. [home + -ster.] One who belongs to or represents the locality; especially, a member of the local or 'home'

team in any sporting contest. [Eng.] **Homesthes** (hō-mes'thēz), n. [NL. (Gilbert), Gr. ὁμός, the same, + ἐσθίειν, eat.] A genus of blennies found on the coast of Panama.

homethrust (hōm'thrust), v. i. To thrust home; deliver a home thrust; hit the mark di-

rectly and with effectiveness.

hominal (hom'i-nal), a. [L. homo (homin-),
man, + -all.] Pertaining to or characteristic

of man or mankind; human. [Rare.]
hominian (hō-min'i-an), n. [L. homo (homin-),
man, + -ian.] One of the Hominidæ; a human heing

being.

hominify (hō-min'i-fī), v. t.; pret. and pp. hominifed, ppr. hominifying. [L. homo (homin-), man, + -ficare, < facere, make.] To render manlike or human; attribute human qualities to: make man.

hominocentric (hom'i-nō-sen'trik), a. [L. homo (homin-), man, + centrum, center, + -ic.]
Pertaining to the doctrine or idea that all things are created or designed to please or

things are created of satisfy man. [Rare.]

It was the old idea that all things exist merely to please man: this hominocentric doctrine Darwin disproved.

L. H. Bailey, Outlook to Nature, p. 272.

L. H. Bauey, Outlook to Nature, p. 272. homobiophorid (hō'mō-bī-of'ō-rid), n. [Gr. ομός, the same, + E. biophorid.] See *biophorid. homobranchiate (hō-mō-brang'ki-āt), a. [Gr. ομός, the same, + βράγχια, gills, + -atel.] Having gills of uniform structure, as decapod crustaceans; pertaining to or having the characters of the Homobranchia.

homobront (hô'mô-bront), n. [Gr. $\delta\mu\delta c$, the same, $+\beta\rho\sigma\nu\tau\eta$, thunder.] A line connecting points around an advancing thunder-storm at which the first thunder is heard simultaneously;

Von Bezold. homocamphoric (hō'mō-kam-for'ik), a. [Gr. homocysteæ (hō-mō-sis'tē-ē), n. pl. [Gr. $\delta\mu\delta\varsigma$, $\delta\mu\delta\varsigma$, the same, + (cyan)camphor + -ic.] Noting an acid, a colorless crystalline compound, HO.COC₈H₁₄.CH₂.COOH, formed by boiling the absence of heterocysts.

cyancamphor with potassium hydroxid. It melts at 234° C., and was at one time called, incorrectly, hydrocamphocarboxylic acid. homocentrically (hō-mō-sen'tri-kal-i),

tion on brain matter. It crystallizes in transparent spheres, melts at 170-176° C., and is also called phrenosin.

homochelidonin (hō'mō-ke-lid'ō-nin), n. [Gr. $\delta\mu\delta_{c}$, the same, + Chelidon(ium) + -in².] An alkaloid, $C_{21}H_{21}O_{5}N$, obtained from the root of Sanguinaria Canadensis. Two compounds with this formula are known, distinguished as

onial.

Home counties. See *county1.

home-bird (hōm'berd), n. A bird raised or cared for in the home; hence, a child nurtured at home, and under home influences.

The child is still a home-bird, and in the humanities the continent must find a place right through n. Y.

The child is still a home-bird, and in the humanities than the continent must find a place right through n. Y.

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The child is still a home-bird, and in the humanities than the former melts at 159° C., the nature is also found in Chelidonium majus.

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The child is still a home-bird, and in the humanities than the former melts at 159° C., the nature is also found in Chelidonium majus.

The child is still a home-bird, and in the humanities than the nature of one right hand to another right through the nature of one left hand to another left, that the former melts at 159° C., the nature is also found in Chelidonium majus. is, formed in the same way and turned in the same direction; identical in form and direc-

> homochirally (hō-mō-kī'ral-i), adv. In a homochiral manne

> homochlamydeous (hō'mō-kla-mid'ē-us), a. [Gr. ὁμός, the same, + χλαμύς (χλαμυδ-), eloak, + -e-ous.] In bot., dichlamydeous, but with all the members of the perianth similarly colored. In plant development, the homochlamydeous stage succeeds the homoiochlamydeous, and is followed by the heterochlamydeous.

> homochromosome (hō-mō-krō'mō-sōm), [Gr. $\delta\mu\delta\varsigma$, the same, $+\chi\rho\bar{\omega}\mu a$, color, $+\sigma\bar{\omega}\mu a$, body: see *chromosome.] An ordinary or typical chromosome, as contrasted with an accessial chromosome. sory chromosome.

Montgomery's (26) terms homochromosome and heterochromosome to distinguish between the ordinary chromosomes and the accessory. Biol. Bulletin, Dec., 1904, p. 6.

homochromy (hō-mok'rō-mi), n. [Gr. $\delta\mu\delta\varsigma$, the same, $+\chi\rho\bar{\omega}\mu\alpha$, color.] The coloring of organisms in resemblance to the prevailing color of their normal environment; general cryptic col-

homochronic (hō-mō-kron'ik), a. [As homochron-ous+-ic.] Appearing in the offspring at the same point of development as in the

at the same point of development as in the parent.—Homochronic heredity. See *heredity. homochronous (hō-mok'rō-nus), a. [Gr. $\delta\mu\delta$ - $\chi\rho\sigma\nu\sigma\varsigma$, of the same time, $\langle \delta\mu\delta\varsigma$, the same, + $\chi\rho\delta\nu\sigma\varsigma$, time.] Appearing in the children at the same age as in the parents. See the ex-

This kind of inheritance (of characters of the parents in such manner that they appear in the latter at the same age in which they occur in the former) has been called homochronous.

Eimer, Organic Evolution, p. 167.

homocladic (hō-mō-klad'ik), a. [Gr. δμός, the same, + κλάδος, branch.] Noting an anastomosis formed between terminal twigs of the

mosis formed between terminal twigs of the same artery: opposed to *heterocladic.

Homocola (hō-mō-sē'lā), n. pl. [NL., < Gr. δμός, the same, + κοίλος, hollow.] A suborder of calcareous sponges in which there are no flagellated chambers, the entire internal surface.

face being lined by collared cells. It includes the family Asconidæ. Compare *Heterocæla.

homocælous (hō-mō-sē'lus), a. [Gr. δμός, the same, + κοίλος, hollow, + -ous.] Having the gastral layer of cells continuous, as in sponges of the family Clathrinidæ; resembling or having the characteristics of the Homocæla: opposed to *heterocælous.

homoconine (hō-mō-kō'nin), n. [Gr. δμός, the same, + E. conine.] A colorless liquid, C₅H₉ (NH)CH₂.CH(CH₃)₂, closely allied to conine, which it resembles in odor. It boils at 181-

182° C. Also called a-isobutylpiperidine.
homocyclic (hō-mō-sik'lik), a. and n. [Gr. όμος, the same, + κύκλος, circle.] I. a. Having the same or only one circle or cycle.

Spectra of the third variety. These show absorption bands, and the substances yielding them are generally constituted on the type of benzene, naphthalene, anthracene, phenanthrene, &c.: but the rings may be either homocyclic or heterocyclic without the character of the spectra being altered.

Nature, Sept. 17, 1903, p. 475.

II. n. A closed-chain compound in which the ring consists only of carbon atoms, as benzene.

It homodermatous (hō-mō-der'ma-tus), a. [Gr. ed, $\delta\mu\delta\varsigma$, the same, $+\delta\epsilon\rho\mu a(\tau-)$, skin, +-ous.] $\delta\mu\delta\varsigma$, the same, $+\delta t\rho\mu a(\tau-)$, skin, $+-\delta us$. Having the skin of uniform structure through out the body.

homodermy (hō-mō-der'mi), n. [Gr. ouoc, the same, $+\delta\epsilon\rho\mu a$, skin.] In biol.: (a) Similarity in relation to the germ-layers. (b) The doctrine or opinion that homologous parts always stand in the same relation to the embryonic

germ-layers, and that embryonic origin is the final and decisive test of homology.

homodesmotic (hō'mō-des-mot'ik), a. [Gr. όμος, the same, + δεσμός, a bond, + -οtic.]

Joining similar parts of the central nervous system: noting nerve fibers which perform this office.

homodontism (hō-mō-don'tizm), n. [homodont + 4sm.] The condition of having a dentition in which all teeth are alike, as toothed whales. [Rare.]

[Rare.] homodoxia (hō-mō-dok'si-ä), n. [NL., \langle Gr. $\delta\mu\delta\varsigma$, the same, $+\delta\delta\xi a$, opinion.] The holding of opinions in common; or, opinions held in common. G. S. Hall, Adolescence, II. 133. homodrome (hō'mō-drōm), n. [Gr. $\delta\mu\delta\varsigma$, the same, $+\delta\rho\delta\mu\varsigma$, a running.] In physiol., a positive induction current. Proc. Roy. Soc. (London), July, 1902, p. 190. homodynamic (hō'mō-dī-nam'ik), a. Same as homodynamous in all senses.

as homodynamous in all senses.

homodynamous, a. 2. Noting the absence of a condition of dominance in respect to a given a condition of dominance in respect to a given character in ancestral inheritance. When the cross-bred offspring of two parental races or varieties breeds true or produces offspring like itself, the parents of the cross-bred offspring are held to be homodynamous.— Homodynamous determinant. See **determinant.*
homoscephalic (hō*mē-ō-se-fal'ik), a. [Gr. δμός, the same, + κεφαλή, head, + -ic.] Relating to skulls of similar type.
homoschromatic (hō*mē-ō-krō-mat'ik), a. [Gr. δμωως, like, + χρωμα(τ-), color.] Exhibiting similar colors (in different adjacent species); of or pertaining to homoschromatism.

tism.

homœochromatism (hō'mē-ō-krō'ma-tizm), n. [homæochromat(ic) + -ism.] In biol., similarity in the colors of different species of animals or plants that occur in the same locality. Athe-

plans that occur in the same locality. Athenæum, Oct. 24, 1903, p. 552.

homeocrystalline (hô'mē-ō-kris'ta-lin), a. [Gr. buoloc, like, + E. crystalline.] In petrog., composed of crystals or grains of equal size: sometimes applied to evenly granular crystalline rocks.

homœogenesis (ho'mē-ē-jen'e-sis), n. Community of origin or ancestry. [Rare.]

homoogeneous (hō-mē-ō-jē'nē-us), a. [Gr. όμοιογενής, of like kind, + -eous.] Of a similar

kind.

homœokinesis (hō"mē-ō-ki-nē'sis), n. [NL., ⟨ Gr. ὁμοιος, like, + κίνησις, motion.] The form of karyokinetic or mitotic cell-division in which the two daughter-nuclei receive chromosomes of the same kind: opposed to *heterokinesis.

homeomorphic (hō'mē-ō-môr'fik), a. [Gr. όμαιόμορφος, of the same form, + -ic.] Of similar type or order.

In a remarkable proportion of cases of mental and other nervous disturbances we find a history of antecedent nervous conditions, either homeomorphic, i.e., of the same order, or heteromorphic, of different type.

Buck, Med. Handbook, IV. 660.

homeomorphous, a. 2. Of like shape and

homeoplasia (hō"mō-ō-plā'si-ā), n. [NL., \langle Gr. $\delta\mu\omega_0$, like, $+\pi\lambda\dot{a}\sigma c$, forming.] The assumption by the tissues of one part of the body of the form of those from another region, as when the skin of the arm is grafted on the cheek to heal a wound.

homeosis (hō-mē-ō'sis), n. [NL., ⟨Gr. δμοιωτις, a becoming like, likeness, ⟨ δμοιωτιν, make like, ⟨δμοιως, like.] In biol., the presence in an organism of a normal member of a meristic series of parts in an abnormal position, as the presence, in a crustacean, of an antenna in the place where the eve is normally situated. When homeosis is exhibited in the part that replaces a part that has been removed, as when the amputated eye of a crustacean is replaced by an antenna, the phenomenon is termed heteromorphosis. See *heteromorphosis* and *metamorphy, 2.

For the term 'Metamorphy' I therefore propose to substitute the term 'Metamorphy' I therefore propose to substitute the term 'Homewis', which is also more correct; for the essential phenomenon is not that there has merely been a change, but that something has been changed into the likeness of something else.

W. Bateson, Study of Variation, p. 85.

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homesotherm (hō'mē-ō-thèrm), n. [MGr. δμοιόθερμος, of like warmth, < Gr. δμοιος, like, + θέρμη, heat.] An animal with a bodily temperature which is nearly constant and independent of, and usually higher than, that of [MGr. hommotherm

pendent of, and usually higher than, that of the surrounding medium; a warm-blooded animal. [Rare.]

These phenomena, which are numerous... in animals of the higher class (homozotherms), are much less so in cold-blooded animals. Smithsonian Rep., 1890, p. 411.

homozothermal (hō'mō-ō-ther'mal), a. [As homozotherm + -al¹.] Having blood which retains a uniform temperature notwithstanding the temperature of the environment: said of warm-blooded as opposed to cold-blooded, as speciel cold-blooded, as opposed to cold-blooded, as photosthermal enimals.

These phenomena, which are numerous... in animals incorrect term for *homogentisic acid.

homogentisin (hō'mō-jen-ti-sin'ik), a. An incorrect term for *homogentisic acid.

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homogen warm-blooded as opposed to cold-blooded, pecilothermic, or heterothermal animals.

homeothermic (hō'mē-ō-ther'mik), a. [homeotherm + -ic.] Of or pertaining to homeotherms or warm-blooded animals; homoothermal.

homeothermism (hō'mō-ō-ther'mizm), n. [As homeotherm + -ism.] The maintenance by warm-blooded animals of a bodily temperature which is independent of that of the surrounding medium.

Independent of the surrounding medium.

rounding medium.

homeotic (hō-mē-ot'ik), a. [homeosis (-ot-) + -ic.] Pertaining to or characterized by homœosis.

Though in some of these examples there may be change in the total number of vertebræ shewing that true Meristic change has occurred, they cannot well be treated apart from the more distinctly Homosotic cases.

W. Baleson, Study of Variation, p. 106.

The typical genus of the more observed. A specialist from comparison with the original type, or a subsequently selected cotype: designed to replace homotype, which is in use for another purpose.

homocotypical (hō'mē-ō-tip'i-kal), a. [Gr. δμοιος, like, + τύπος, type, + -io-al¹.] In cytol., of or pertaining to a form of mitosis occurring in the secondary spermatocytes of some animals, such as the salamander, and differing from the typical form of mitosis only in the shortness of the chromosomes and their irregular arrangement in the daughter-nuclei. Flemming, 1887.

homocotypical (hō'mō-ō-tip'i-kal), a. Same as homolotic hal (hō'mo'-les'i-thal) a. [Gr. δμοίς, having the food-yolk uniformly distributed throughout the egg. as in alecithal eggs: opposed to *heterolecithal. Mark, 1892. Homolidæ (hō-mol'i-dē), n. pl. [NL., < Homolidæ (hō-mol-opt --al¹.] in which the carapace is quadrangular or subtriangular, the eye-stalks usually very long

homogamous, a. 2. Of or pertaining to homogamy or assortative mating. Also homogamic. [The] whole range of effects from pure random mating to perfectly homogamous unions.

Biometrika, Nov., 1903, p. 481.

Biometrika, Nov., 1903, p. 481.

Homogamous mating. See *mating.

homogamy, n. 2. Assortative mating; the pairing or mating of animals, or the marriage of human beings, with some common distinctive characteristic considered apart from the question whether the mating is due to conscious selection of, or preference for, this characteristic or is unintentional or unconscious; sexual selection in its widest sense.

If the male class of a given character tends to mate

If the male class of a given character tends to mate with a female class with generally like character, we have a tendency to homogamy. Biometrika, Nov., 1903, p. 481.

homogen, n. 3. A homogenous or homogenetic part or organ.

Homogeneous part. See *part.

homogenetical (hō'mō-jō-net'i-kal), a. Of or pertaining to homogeny.

homogenic (hō-mō-jen'ik), a. Of or pertaining to homogeny; exhibiting homogeny or sameness of nature.

homogenist (hō-moj'e-nist), n. [homogen-y+-ist.] One who believes that the races of man-

kind have had a common origin or ancestral history and that they constitute a single species.

homogenize, v. t.—Homogenized milk, a tradename for milk which has been heated to 185° F. and forced by heavy pressure through a number of very fine openings, the jets impinging upon a porcelain plate. It is asserted that the result is to divide the fat into globules much smaller and more nearly uniform in size than those of the original milk, so that the product may be kept for a long time without the emulsion being broken up by the separation of cream in a distinct layer. Sci. Amer., April 16, 1904, p. 315.

homogentisis (holms in a distinct layer)

found in small quantity in normal urine and in plant-roots. The amount is increased in cases where alkapton is present in the urine, or when the roots are geotropically stimulated. It crystallizes in prisms and melts at 146.5–147° C. Also called dihydroxy-phenylacetic

The setigerous region ends in a conical papilla behind that for the spine, and bears a single brown spine and a series of homogomph bristles.

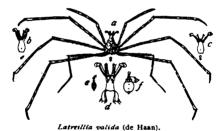
Annals and Mag. Nat. Hist., Sept., 1902, p. 259.

Man, mammals, and birds are called . . . homosother-mic — that is, warm-blooded — animals. Smithsonian Rep., 1890, p. 407.

Or alternation of generations.

**division. homolochlamydeous (hō'moi-ō-kla-mid'ē-us), a. [Gr. $\delta\mu\omega\omega$, like, $+\chi\lambda\alpha\mu\dot{\nu}$, $(\chi\lambda\alpha\mu\nu\dot{\nu}$ -), cloak, + E. -eous.] In bot., having a single but fully developed floral envelop, as the oaks, the nettle family, etc. In plant development the homolochlamydeous stage succeeds the haplochlamydeous, and is followed by the homochlamydeous. chlamydeous.

homoiopodal (ho-moi-op'ō-dal), a. [Gr. δμοιος, like, + πούς (ποό-), foot, + -all.] In neurol., noting nerve-cells which have branches or



a, female; b, head of male; c, head of female; d, same, from be-

and slender, the orbits incomplete, and the first antennæ not retractile into special fossettes. There are 5 genera, Homola, Dicranodromia, Latreillia, Latreillopsis, and Homologenus, and the va-rious species extend to moderate depths.

homolinolein (hō'mō-li-nō'lē-in), n. [Gr. δμός, the same, + E. linolein.] In chem., the substance C₃H₅.(C₁₈H₃₁O₂)₃, which forms the chief constituent of linseed-oil. The name linolein is reserved for the corresponding glycerid of an acid with 16 atoms of carbon.

homologen (hō-mol'ō-jen), n. [homolo(gous) + -gen.] The group of atoms by which a member of a homologous series differs from the one immediately preceding or succeeding it. In the methane series of compounds the homologen is CH₂.

homologenic (hō-mol-ō-jen'ik), a. [homologen + -ic.] Noting the molecule or group to which the homologen is successively added.

homologous, a. (c) In pathol., noting a neoplasm composed of tissues of the same type as those of the part from which it springs: distinguished from *heterologous.—Homologous determinant, id, series, tumor, twins. See *determinant, etc.

sult of descent from a common ancestor.—Meristic homology the similarity between corresponding or repeated parts in the same individual; nearly equivalent to serial homology. The five rays of a startish are meristically, but not serially, homologous. E. B. Wilson, Biol. Lectures, 1895, p. 101.—Parameter of homology, the coefficient of homology.

homolysin (hō-mol'i-sin), n. [Gr. $\delta\mu\delta\varsigma$, the same, $+\lambda \delta\sigma\iota\varsigma$, dissolution, $+-in^2$.] A lysin which will cause the destruction of the cells of an animal of the same species.

homomorph (hō'mō-mòrf), n. [Gr. $\delta\mu\delta\varsigma$, the

Characters substantially the same, or "homomorphs" (to use Colonel Mallory's term) made by one set of people, have a different signification among others.

Haddon, Evolution in Art, p. 215.

homomorphosis (hō'mō-mōr'fō-sis), n. [NL., $\langle b\mu \delta c \rangle$, the same, $+ \mu \delta \rho \phi \omega \sigma c \rangle$, formation.] The replacement of a lost part in an organism by a part that is like the one that has been lost: opposed to *heteromorphosis.

When the new part is like that removed, or like a part of that removed, as when a leg or a tail is regenerated in a newt, the process is one of "homomorphosis."

T. H. Worgan, Regeneration, p. 23.

homonataloin (hō'mō-nā-tal'ō-in), n. [Gr. όμός, the same, + (†) L. natus, born, + Ε. aloin.] A colorless compound, C₁₅H₁₆O₇, obtained from aloin.

tained from aloin.
homonoia (hō-mō-noi's), n. [Gr. ὁμόνοια, agreement, concord, ὁ ὁμόνοος, of the same mind, ὁ ὁμός, the same, + νόος, mind.] 1. The sharing of thoughts and sentiments; or, thoughts and sentiments mutually shared. G.S. Hall, Adolescence, II. 133.—2. [cap.] A Greek divinity equivalent to the Roman Concordia. She is often represented on coins.
homonomous, a. 2. In zoöl, made up of like segments or metameres; said of annelids or

segments or metameres: said of annelids or arthropods in which the various metameres are of the same or similar structure. Opposed to *heteronomous.

homonomously (hō-mon'ō-mus-li), adv. In a homonomous manner.

homonym, n. 3. Specifically, in systematic biology, a name given to a group (usually a genus or species) at a later date than that at which the same name had been given to another group. Such a name is said to be preoccupied. In order to avoid confusion with the earlier names, all homonyms are rejected. Thus the use of Torreya by Rafinesque in 1818 as the name of a genus of plants belonging to the family Menthacese prevents the recognition of Torreya, published by Arnott in 1838, as a valid name for a genus of the family Tazacese, the latter genus consequently taking its next older name Tumion, published in 1840. Similarly Agriotherium was used by Wagner for a genus of carnivores and by Sott for a genus of ungulates; and Brachyurus was applied by Fischer to a genus of rodents and by Splx to a genus of monkeys.

Homonymous images. See *image.
homoparthenogenesis (hō * mō - pär - the - nō - jen'e-sis), n. [NL., ⟨Gr. ὁμός, the same, + NL. parthenogenesis.] That type of parthenogenesis in which the unfertilized eggs produce only one sex, as contrasted with *heteroparthenogenesis, or the production of both males and fewhich the same name had been given to an-

one sex, as contrasted with *heteropartheno-genesis, or the production of both males and fe-males from unfertilized eggs. When the unfer-tilized eggs produce only males, as in the bee, the phe-nomenon has been called arrhenotoky or androgenetic parthenogenesis. When females alone are produced it has been called thelytoky, or gynogenetic parthenogenesis. homoperiodic (hō "mō - pē - ri - od 'ik), a. [Gr. δμός, the same, + περίοδος, period, + -ic.] Having the same periods. homophene (hō "mō - fēn). n. [Irreg. (Gr. δμός.

homophene (hō'mō-fēn), n. [Irreg. < Gr. δμός, the same, + φαίνειν, show, appear.] A word having the same visible form or spelling as

another; a homograph.

homophenous (hō-mof'e-nus), a. Having the character of a homophene.

homoplastid (hō-mō-plas'tid), n. [Gr. ὁμός, the same, + Ε. plastid.] An organism consisting of numerous cells of uniform structure:

noposed to *heteroplastid.

homoplasty (hō'mō-plas-ti), n. [Gr. όμός, the same, + πλαστός, formed, + -y³.] Same as homoplasy.

homopolay, a. 2. In elect., same as unipolar, 1.

Jour. Brit. Inst. Elect. Engin., 1901-02, p. 948.
homorhabdic (hō-mō-rab'dik), a. [Gr. ὁμός, the same, + βάβδος, rod.] Having the gill-filaments of the same size, as certain mollusks: opposed to *heterorhabdic. Lankester.

homosexual (hō-mō-sek'ṣū-al), a. [Gr. ὁμός, the same, + L. sexus, sex, +-all.] 1. Of or pertaining to the same sex or to individuals of the same sex.—2. Relating to homosexuality.

In one of our cases, homosexual impulses were a feature of degeneracy. Med. Record, June 13, 1908, p. 925.
homosexuality (hō'mō-sek-sū-al'i-ti), n. [hom-

 homosexuality (ho'mō-sek-sū-al'ī-ti), n. [homosexual + -ity.] Perverted sexual desire for one of the same sex. C. H. Hughes, in Alien and Neurol., Feb., 1903, p. 74.
 Homosteus (hō-mos'tō-us), n. [NL., < Gr. ὁμός, the same, + ὀστέον, bone.] A genus of arthrodirous fishes belonging to the family Coccostelds. They are of very learn size with slender. costcidæ. They are of very large size, with slender and toothless jaws, and orbits completely inclosed in the head-shield. They are found in the Old Red Sandstone. homostyly (hō-mos'ti-li), n. [homostyl(ed) + In bot., the condition of being homostyled.

homosystemic (hō'mō-sis-tem'ik), a. [Gr. δμός, the same, + E. system + -ic.] Of or pertaining to the same system, as organs derived from the same germ-layer in the embryo.

homotaxia (hō-mō-tak'si-ä), n. [NL.] as homotaris

homotenous (hō-mot'e-nus), a. Noting insects which have incomplete metamorphoses, as op-

which have introdupted metamorphoses, as of posed to the polymorphous groups. A. S. Packard, Text-book of Entom., p. 597.

homothallic (hō-mō-thal'ik), a. [Gr. $\delta\mu\delta\varsigma$, the same, $+ \theta a\lambda\lambda\delta\varsigma$, sprout, +-ic.] Having the zygospores formed only as the result of the conjugation of hyphæ from a single plant or this said of the proposed forming plants.

strain: said of zygospore-forming plants. homothermic (hō-mō-ther'mik), a. Sam

homothetic, a. II. n. A transformation which changes every plane figure into a homothetic spot on the skin.

For example, the group of the projective transforma-tions of the plane and the group of homothetics, that is to say, transformations which change every plane figure into a homothetic figure is figure similar and similarly placed].

Science, Sept. 16, 1904, p. 360.

homotonic (hō-mō-ton'ik), a. Same as ho-

motonous.
homotopic (hō-mō-top'ik), a. [Gr. $\delta\mu\delta\varsigma$, the same, $+ \tau\delta\pi\sigma\varsigma$, place, + -ic.] Occurring at the same place in the offspring as in the parent.—Homotopic heredity. See *heredity. homotopy (hō-mot'ō-pi), n. [Gr. $\delta\mu\delta\varsigma$, the same, $+ \tau\delta\pi\sigma\varsigma$, place, + -y3.] The development of an embryo into an adult organism by a series of changes which occur in the parts of the hody in which they occurred in the developtors, etc.
the body in which they occurred in the development of its parents. [Rare.] Cope, in Amer.
Nat., Jan., 1878.

nomotype, n. (c) Same as *homeotype.

ment of its parents. [Rare.] Cope, in Amer. Nat., Jan., 1878.
homotype, n. (c) Same as *homotype.
homotypic, a. 2. In cytol., relating to the second nuclear division after mitapsis: so pic, a. 2. In cytol., relating to the nuclear division after mitapsis: so called because it is very similar to ordinary

mitosis. Cook and Swingle.

homotyposis (hō'mō-tī-pō'sis), n. [NL., < Gr. tically repeated parts.

On Homotyposis in Homologous but Differentiated Organs: Prof. Karl Pearson, F. R. S.
Nature, Feb. 12, 1903, p. 360.

Cross-homotyposis, homotyposis considered reciprocally. Biometrika, April, 1902, p. 344.

homozygosis (hō"mō-zī-gō'sis), n. [Gr. ὁμός, the same, + ζύγωσις, joining. See zygote.]
Development from a homozygote.

The hybrids produced by pairing a heterozygous waltzing form G_1G_2 with a homozygous albino GG will be of two kinds, GG_1 and GG_2 . Biometrika, Jan., 1904, p. 16.

Hon. An abbreviation (b) of honorary. Honble. A contraction of Honorable. Same as Hon. (a).

Hond. An abbreviation of Honduras. Honduras rubber. See *rubber. honey, n.-Date honey. See the extract.

Other varieties [of dates], such as the Khars, which are full of sugary juice when ripe, are not so easily handled. The Arabs usually hang up the bunches and allow the juice to drain off into jars. This juice, which they call date honey, is preserved and used, and the fruit, which has become somewhat dry, is then packed in boxes, or more often in skins. more often in skins.

Yearbook U. S. Dept. Agr., 1900, p. 482.

Extracted honey, honey which has been separated from the comb.—Sham honey, a hard glossy body found in the flowers of Lopezia, Parnassia, and Cleome, resem-

bling drops of nectar, and so placed as to promote cross-fertilization through the agency of the attracted insects, which are deceived by it.—White honey, honey that flows from the cells spontaneously without pressure, being that made by bees that have not swarmed. N. E. D. honey-board (hun'i-bord), n. In bee-keeping, a partition of perforated sheet-metal placed

in a hive to confine the queen bee to the brood-chamber and yet permit other bees to pass from one division of the hive to another

pass from one division of the live to another through the perforations.

honey-box (hun'i-boks), n. In bee-keeping, a folding wooden box in which the bees in a hive form a comb and fill it with honey. At the end of the season the filled box is removed from the hive without disturbing the bees. Also called a honey-section.

Honeycomb coral. See ★coral.—Honeycomb scall or

honeycomb-radiator (hun'i-kōm-rā'di-ā-tor), n. A radiator much used on motor-cars for abstracting the heat from the cooling-water. It is made up of a series of small hexagonal passages surrounded by thin walls, and in appearance somewhat resembles a honeycomb.

honeycomb-weave (hun'i-kōm-wēv), n. A style of weave resembling the calls of a honey-

bird, Cæreba, or Cerfamily Cærebidæ. yellow. yenow.

honey-crop (hun'i-krop), n. The distended crop of the honey-bearers among the so-called

honey-auts.

honey-ovaporator (hun'i-ē-vap'ō-rā-tor), n.
An apparatus for removing any excess of liquid from the honeycomb for the safe transportation of the latter.

honey-extractor (hun'i-eks-trak'tor), n.

honev-strainer.

honey-strainer.
honey-flower, n. 2. Same as *honey-plant, 2.
See Hoya.—3. In Australia, a tall evergreen shrub of the family Proteaceæ, Lambertia formosa: so named from the large quantity of nectar contained in its flowers.

honey-gate (hun'i-gāt), n. A gate-valve made particularly for drawing off honey, molasses, or other thick liquids from barrels, extrac-

honey-bearer

noney-mark (hun'i-märk), n. 1. A spot of a different color from the rest of the corolla of honey-mark (hun'i-mark), n. different color from the rest of the same a flower, supposed by Sprengel to guide insects to the nectary.—2. Same as *honey-drop.

(hundingal-röm). n. The

honey-mushroom (hun'i-mush rom), n. fungus Armillaria mellea, which produces a form of root-rot in trees.

honey-plant (hun'i-plant), n. 1. The bee-balm, Melissa officinalis.—2. A plant of the genus Hoya.—3. In Tasmania, a shrub, Cystan-the scoparia (Richea scoparia of Hooker), of the

honey-stopper (hun'i-stop'er), n. An arrangement of chitinous valves fringed with bristles at the entrance of the proventriculus or honey-

w. Bateson, in Rep. Evol. Com. Roy. Soc., 1965, 11-125. honey-stopper (hun'i-stop'êr), n. An arrange-nomozygote (hō-mō-zī'gōt), n. [Gr. $\delta\mu\delta c$, the same, + E. zygote.] A zygote formed by the union of two gametes of the same kind or stock: opposed to *heterozygote. See extract under *heterozygote. See extract under *heterozygote. homey-stopper (hun'i-stop'êr), n. An arrangement of chitinous valves fringed with bristles at the entrance of the proventiculus or honey-stomach in the honey-bee. See extract the honey-bee. honey-suckle, n. 4. The color of the flowers of the common honey-suckle, "a combination of pale pink and even paler yellow." Daily News (London), Nov. 20, 1890. N. E. D.—Cape honey-stopper (hun'i-stop'êr), n. An arrangement of chitinous valves fringed with bristles at the entrance of the honey-bee. honey-suckle, n. 4. The color of the flowers of pale pink and even paler yellow." Daily News (London), Nov. 20, 1890. N. E. D.—Cape honey-suckle, Lecadendron melliferum. See Lecadendron melliferum. Honey-suckle ornament, in the fine arts, a combination of pale pink and even paler yellow." Daily News (London), Nov. 20, 1890. N. E. D.—Cape honey-stopper (hun'i-stop'ér), n. An arrangement of chitinous valves fringed with bristles at the entrance of the honey-bee. of the common honeysuckle; "a combination of pale pink and even paler yellow." Daily News (London), Nov. 20, 1890. N. E. D.—Cape honeysuckle, Leucadendron melliferum. See Leucadendron.—Honeysuckle ornament, in the fine arts, a peculiar type of decoration, in which there is a resemblance to a sprig or flower of the honeysuckle: found especially on late Greek vases. See anthemion (a), with cut. honey-weasel (hun'i-wō'zl), n. The ratel or honey-badger, Mellivora ratel, a large member of the weasel family found in Africa. A near relative, M. indica, occurs in India. The animal is fond of honey, whence the common

mal is fond of honey, whence the common

name.
honeywood. (hun'i-wud), n. The Tasmanian dogwood. See dogwood, 3, and Tasmanian.
Honiton braid. See *braid¹.
honky-tonk (hong'ki-tongk'), n. A low groggery: a slang name among the negroes of the southern United States.
honoki (hō-nō'kē), n. [Jap.] A tall Japanese timber-tree, Magrolia hypoleuca. The light, grayish-white wood, which gradually changes to a deeper shade,

is soft, easily bent, and elastic, and has a fine, even grain, making it applicable to many uses. It is used for the groundwork in the manufacture of lacquer ware, for pattern-blocks in printing cloth, and from it is prepared the soft, fine-grained charcoal which is used throughout Japan for rubbing the lacquer, and for polishing the ename of cloisonné ware.

honor, n. 11. In golf, the right to play off first from the tee.—Simple honors, in bridge, three out of the five honors which may be held.—To do the honors, to act as host or hostess on any occasion, as in presiding at a banquet or in dispensing hospitality.

honoris causa (hō-nō'ris kâ'zä). [L.] See

honthin (hon'thin), n. A tasteless, odorless compound of tannin, keratin, and albumin claimed to be unaffected by the gastric juice but decomposed into its components by the intestinal secretions: an intestinal astringent. hood, n. 6. (b) The rise in the quarter-deck which gives more head-room to the cabin. (c) A covering over a hatchway to protect the opening from the weather.—7. (a) A projecting shelter-like canopy over an outer door, usually carried by corbels or brackets. See hood-mod. (b) A circular residuality. ally carried by corbels or brackets. See hoodmold. (b) A similar projecting member over
a hearth, intended to direct the smoke inward
toward the flue. In houses the fire might be built on
a wholly open hearth without projecting jambs, and the
hood six or seven feet above it was conical or pyramidal
in form, leading to the flue above. This hood might hang
free in the room, but was more commonly attached to the
wall, from which it projected, and supported on corbels.
(c) In modern ventilation, a projection above
a range or furnace, intended to carry off the
smell of cooking or novious cases (d) In sheep. smell of cooking or noxious gases. (d) In chemical laboratories, a fixed appliance consisting of an inclosed and covered space within which offensive gases or vapors may be evolved and carried off by a connected flue without escaping into the room. It is usually provided with a sliding or hinged door in front for the introduction and removal of apparatus. (e) A curved cover for a machine or for any part of oured cover for a machine or for any part of one. (f) The cover for a blacksmith's forge. (g) In elect., a protecting cover, also sometimes serving as a reflector, placed over an arc-lamp.—Naval hoods, in ship-building, heavy pieces of timber which encircle the hawse-holes.—Oral hood, the fringed membrane which surrounds the vestibule or mouth-opening of amphioxus (Branchiostoma).

hood-cover, n. 2. Naut., a covering of wood

hood-cover, n. or canvas for a hatch, companionway, or skylight.

hood-nozle (hud'noz'l), n. A nozle having a hood or hinged cover which may be swung across its mouth to cut off a part or all of the stream of water.

hoof, n.—Dished hoof, a hoof in which the wall is concave from the coronet to the plantar surface.—Hoof-and-mouth disease. Same as foot-and-mouth disease (which see under foot).—To beat the hoof. See *beat1.—To pad the hoof. See pad1.
hoofiet (hôt'let), n. [hoof + -let.] One of the arrall or lales hoof found in mony specified.

pad the hoof. See pad^1 .

nooflet (höf'let), n. [hoof + -let.] One of the small or false hoofs found in many ruminants, especially in deer, on either side of the nants, especially in deer. on either side of the pair of principal hoofs; a dew-claw. They may have their supporting bones in a very vatigial condition, as in the ox and bison, or of considerable size, as is the case with the moose and reindeer. Smithsonian Rep. (Nat. Mus.), 1896, p. 566.

hook, n. 10. In golf: (a) The angle of the face of a club when it lies in to the ball. (b)
A ball played with a distinct curve to the left.

—11. In cricket, the *hook-stroke (which see).

—12. A curved or angled line added to a

—12. A curved or angled line added to a written or printed letter, or forming a part of it, or, as in phonography, used as a distinct symbol.—13. In well-boring, a fishing-tool in the form of a horizontally curved hook which engages the shoulder of rods or tools that may have become unscrewed.— Malgaigne's hooks, sharp hooks used to bind together the two parts of a fractured patella.

hook, v. t. 6. In golf, to play (a ball) so that it curves more or less to the left.

When standing too far, the ball is apt to be 'drawn' or 'hooked'—that is to say, struck with the point or 'toe' of the club, in which case the ball flies in to the left.

Chambers' Inform., II. 695. N. E. D.

In cricket, to hit (the ball) to the 'on' side with a horizontal bat, after stepping back: said of the batsman .- To hook Jack, to play truant.

The boy "hooked Jack" for a whole day.

Joseph Lincoln, Partners of the Tide, iv.

Joseph Lincoln, Partners of the Tide, iv. hook-and-strap (hûk'and-strap'), n. A hinge-strap in which the hook or pintle is an integral part of the strap. It is more customary to form the eye on the strap.

hook-book (hûk'bûk), n. In angling, a case in the form of a book, with leaves of cloth or other material, in which fish-hooks are kept; a fly-book

a fly-book.

hooker¹, n. 3. [cap.] See *Amish.

Hookera (huk'e-ra), n. [NL (Salisbury, 1808), named for William Hooker (1779-1832), a British botanical artist.] A genus of plants of the family Liliaceæ. There are about 15 species, natives of western North America, chiefly of California. See *Brodiæa.

hooker-on (huk'er-on'), n. In mining, a bottom-man: a man who puts mine-cers on a cage.

tom-man; a man who puts mine-cars on a cage.

tom-man; a man who puts mine-cars on a cage. Barrowman, Glossary.

Hooke's law. See *law!

hookey's n.—Blind hookey, a gambling game, frequently played on transatlantic steamers. The banker offers the pack to the players and they divide it into several packets, face down. One of these, chosen at random, is assigned to the banker. Bets are then placed on the remaining piles and all are then turned face up. The bottom cards of each pile that are higher than that of the dealer's win; those lower lose. Also called Dutch bank. hook-gage (hùk'gāj), n. An instrument for measuring the head of water on the crest of a weir. See *gage².

hook-gear (hùk'gēr), n. A valve-gear for engines, in which the eccentric-rod is hooked on a pin on the valve-stem.

hooklet, n. (c) One of the hook-shaped bodies which

a pin on the valve-stem.

hooklet, n. (c) One of the hook-shaped bodies which form a circle about the head of the echinococcus, and are found floating free in the fluid of a hydatid cyst.

hook-plate (huk'plat), n. A casting forming a long and narrow plate from the face of which projects a line of curved hooks; an expansion-

projects a fine of curved nooks; an expansion-plate. It is fastened to a wall to support a series of steam-heating pipes. When rings are substituted for hooks it is called a ring-plate.

hook-stroke (huk'strok), n. In cricket, the stroke in which the batsman steps back and hits the ball round to the 'on' side with a

horizontal bat.

hook-tender (huk'ten'der), n. The foreman of a yarding-crew; specifically, one who supervises the attaching of the cable to a turn of logs. hook-worm (huk'werm), n. An intestinal parasite, Uncinaria americana or Ankylostoma duo-denale: so called originally from the presence of rays or ribs, interpreted as hooks, in the of rays or ribs, interpreted as nooks, in the membranous expansion or caudal bursa, at the hinder end of the male worm. It infests man, cattle, dogs, foxes, sheep, seals, and other animals.

hooligan (hö'li-gan), n. Originally, a member of a South London gang of young street rowdies said to have been led by one named Haelican who induced in heistoneau here.

Hooligan, who indulged in boisterous horse-play and breaches of the peace; hence, any play and breaches of the peace; nence, any street ruffian, especially one who is a member of an organized gang; a 'hoodlum.' hooligan (hö'li-gan), v. i. and t.; pret. and pp. hooliganed, ppr. hooliganing. I. intrans. To play the hooligan.

I. trans. To assault in the manner of the bedience.

hooligans.

hooliganism (hö'li-gan-izm), n. Indulgence in the boisterous horse-play and ruffianism of the hooligans of South London and other large centers of population.

There is a good deal of moralizing in print over the disorderly scenes and outbreaks of "Hooliganism" at London's patriotic town show. N. Y Tribune, Oct. 31, 1900.

Hoop punishment, a former punishment of boys on shipboard in which their left wrists were seized to a loose sailhoop, and each of them was provided with a nettle or lash made of rope-yarns. At the word of command the boatswain gave the boy nearest to him a cut with his cat, and he in turn hit the boy ahead of him, and so on. This form of mutual punishment was also adopted for quarrelsome members of the ship's company.

some members of the ship's company.

hoop-machine (höp'ma-shēn'), n. In wood-working, a power-machine for cutting barrel-hoops and the long thin strips used in making coiled barrels, and also in cutting thin veneers or strips used in making wooden fruit-baskets.

hoop-stick (höp'stik), n. 1. A thin, pliable stick or sapling used for making barrel-hoops.—2.

A light stick used by children for rolling a hoop.

hoop-wood (höp'wid), n. 1. In the United States, the hoop-ash, Fraxinus nigra.—2. In Jamaica, a tree of the mimosa family, Pithecolobium latifolium. See horsewood.-3. Same

as *can-hoop. as *can-noop.

Hoorebekia(hō-re-bek'i-ä), n. [NL. (Cornelisson, 1817), named for Charles Joseph van Hoorebeke, who in 1818 published in Ghent a memoir on the relation of broom-rapes to the cultivation of clover.] A genus of dicotyle-donous plants belonging to the family Asteraceæ. See Haplopappus.

hoot!, n. 2. The cry of an owl.

it, n. 2. The cry of an own.

The lover, skulking in some neighbouring copse, . . .

Curses the owl, whose loud, ill-omen'd hoot

With ceaseless spite takes from his listening ear

The well-known footsteps of his darling maid.

J. Baillie, A Summer's Day.

hoot2 (höt), n. [Maori utu, money.] Money paid as compensation; payment; recompense; remuneration. [Slang, New Zealand.]

remuneration. [Slang, New Zealand.]

'Hoot' is a very frequent synonym for money or wage.
I have heard a shearer . . . enquire of the gilt-edge clerk behind the barrier, 'What's the hoot, mate? 'The Maori equivalent for money is utu, pronounced by the Ngapuhi and other northern tribes with the last syllable clipped, and the word is very largely used by the kauri-gum diggers and station hands in the North Island.

Truth (Sydney), Jan. 12, 1896, quoted in E. E. Morris, Austral English.

Native hop. (a) In Australia, same as \$\pmop hop-\text{up}\$ in Australia, same as \$\pmop hop-\text{up}\$ in Tasmania, a leguminous shrub, Daviesia latifolia. Also called bitter-leaf.—Wild hop. (a) See wild hop, under wild1. (b) Same as native \$\pmop hop\text{up}\$ (b). hop-aphis (hop'\text{u}'\text{fis}), n. A plant-louse of the family \$Aphidid\text{up}\$, Phorodon humuli,

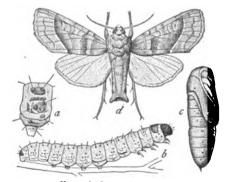
common to Europe common to Europe and the United States. It winters in the egg state on plumtrees and develops a winged generation in spring which flies to the hop-plant, a return migrant generation being developed in the autumn. Also called hop-fly, hop-louse, and hop-plant louse, how how how the water (hov/how)

Hop-aphis (*Phorodon humuli*) of the generation which files to the hop, enlarged; a, head, still more enlarged.

hop-plant louse.

hop-borer (hop'bōr'er), n. The larva of an American noctuid moth, Gortyna immanis, which bores into young hop-shoots in the northern United States. See *hop-grub.

hop-disease (hop'di-zēz'), n. See *disease.
hop-dog, n. 2. The larva of a European liparid moth, Dasychira pudibunda. [Eng.]
hop-dresser (hop'dres'er), n. A hop-grower; one who cultivates hops.
hop-gland (hop'gland), n. One of the glands on the fruit of the hop-yielding lupulin; a lupulinic gland. See lupulin, 3.
hop-grub (hop'grub), n. The larva of an



Hop-grub (Gortyna immanis). a, enlarged segment of larva; b, larva; c, pupa; d, adult. (Three fourths natural size.)

American noctuid moth, Gortyna immanis. See *hop-borer.

Hopkinson effect, the sudden loss of magnetic susceptibility by iron at or just above the critical temperature (775° C.): discovered by Hopkinson in 1889.

Hoplites (hop-li'tēz), n. [NL., < Gr. ὁπλίτης, an armed man: see hoplite.] A genus of Cretaceous ammonites belonging to the family Hop-litidæ of the suborder Pachycampyli. It is char-acterized by high volutions and forked ribs with promi-nent tubercles.

nent tubercles.

Hoplitidæ (hop-lit'i-dē), n. pl. [NL., < Hoplites + -idæ.] A family of the ammonoid cephalopods belonging to the suborder Pachycampyli. It is characterized by having the costæ bifurcated on the sides and by umbilical shoulders and prominent tubercles at the forks.

at the forms. hoplomachy (hop-lom'a-ki), n. [Gr. $\delta \pi \lambda o \mu a \chi i a$, $\delta \pi \lambda o \mu a \chi o c$, adj., fighting in armor, $\delta \pi \lambda a$, armor, $\delta \pi \lambda a$, armor, $\delta \pi \lambda a$, in the state, or mimic battle, fought in heavy armor.

Fighting in full and heavy armor, hoplomachy, which Plato praised as a noble art, came somewhat later.

G. S. Hall, Adolescence, II. 259.

G. S. Hall, Adolescence, II. 259.

Hoplomytilus (hop-lō-mit'i-lus), n. [NL., < Gr. ὁπλον, a weapon, + Mytilus, a genus of mollusks.] A genus of prionodesmaceous Pelecypoda belonging to the family Myalinidæ. It is characterized by a triangular shell with a thickened plate below the umbo, in front of which there is a tooth in the right valve. It occurs in the Devonian.

Hoplopagrinæ (hop'lō-pa-grī'nē), n. pl. [NL., < Hoplopagrus + -inæ.] A subfamily of snappers of the family Lutianidæ, typified by the genus Hoplopagrus. mollusks.] A genus of prionodesmaceous released belonging to the family Myalinidæ. It is characterized by a triangular shell with a thickened plate below the umbo, in front of which there is a tooth in the right valve. It occurs in the Devonian.

Hoplopagrinæ (hop'lō-pa-gri'nē), n. pl. [NL., < Hoplopagrus + -inæ.] A subfamily of snappers of the family Lutianidæ, typified by the genus Hoplopagrus.

Hoplopagrus (hop-lop'a-grus), n. [NL., < Gr. δπλον, weapon, + πάγρος, var. of φάγρος, a fish, ing-fish, 2.

the sea-bream.] A genus of snappers of the family Lutianidæ: distinguished by the form of the nostrils and by the presence of molar teeth in the jaws. The single known species, güntheri, abounds on the west coast of Mexico.

Hoplopteryx (hop-lop'te-riks), n. [NL., ζ Gr. δπλον, a shield, + πτέρυξ, a wing.] A genus of the teleost acanthopterygian iishes belonging to the family Berycidæ. It is characterized by a short head, a deep dorsal fin, and large ctenoid scales: common in the Upper Cretaceous.

Hoplos, a shield, + σαύρος, a lizard.] A genus of dinosaurian reptiles from the Upper Cretaceous of Austria. It is based on fragmentary remains and is of uncertain systematic posi-

Hoplostethus (hop-los'tē-thus), n. [NL., < Gr. οπλου, a shield, + στήθος, breast, thorax.] A genus of deep-sea fishes of the family Trachichthydæ. H. mediterraneus is the important species.

tant species.

hop-louse (hop'lous), n. Same as *hop-aphis.

Hoplunnis (hop-lun'is), n. [NL., < Gr. ôπλον, a shield, + ῦννης, ῦννη, ῦνις, a plowshare.] A genus of eels of the family Murænesocidæ, found in the Caribbean Sea.

hop-merchant (hop'mer'chant), n. Any one of several species of vanessoid butterflies, supposedly so named by hop-growers because of the silver-and-gold markings of the chrysalis. The comma butterfly, Polygonia comma, and the violettly, Polygonia interrogationis, are two of the most abundant forms in the hop-yards. Comstock, Manual of Insects, p. 405. See violet-tip, with cut.

hopo (hō'pō), n. [African.] An African Vshaped trap for game. It consists of two converging hedges between which the game is driven into a pit at the point.

hopper¹, n. and a. I. n. 9. In geol., a hopper-shaped pit or depression in the land.—

Steam-hopper, a hopper-bottomed barge propelled by its own steam. It is used to receive the excavated material from dredging operations and carry it away for dumping in deep water by the opening of the hopper-bottom.

II. a. Having the form of an inverted pyramid: as, a hopper ship, the bottom of which consists of a series of hoppers: a type of vessel used on the Great Lakes for carrying bulk cargoes.—Hopper crystal. See *crystal.—Hopper salt. See *salt!

hopper-apron (hop'er-ā'prun), n. In cotton-manuf., an endless traveling apron, or lattice, in an automatic hopper for feeding cotton to an opening-machine.

hopperdozer (hop'er-dō"zer), n. [hopperl, 1 (c), + (bull)dozer.] In agri., a large shallow pan partly filled with tar or kerosene and



Canvas Hopperdozer, to be drawn by a horse. (Riley, U. S. D. A.)

mounted upon runners, or a canvas frame. similarly mounted, and smeared or saturated with tar or oil. See the extract.

Hopperdozers are long, shallow pans of any convenient dimensions, made of galvanized iron or other material, mounted upon runners about an inch thick. The pan is partly filled with water, a small quantity of kerosene is added to form a film, and a screen is placed upright on the back to prevent the locusts from jumping over the pan. As hopperdozers are drawn over the ground by either men or horses, the young locusts jump into the air, fall into the pan, and are wetted and killed by the kerosene.

kerosene.

U. S. Dept. Agr., Div. Entom., 1904, Cir. 53, p. 2.

hopple, v. t. 2. To harness (a horse) so as to change its gait mechanically.

hop-pocketing (hop'pok'et-ing), n. A coarse material of cotton, or jute and linen: used for the packing of hops. N. and Q. 10th ser., II. 268, 312.

hoppo-men (hop'o-men), n. pl. Chinese custom-house officials

hop-sack (hop'sak), n. Same as *hop-sack-

hop-sacking, n. 2. A wool dress-fabric of coarse texture.

hop-toad (hop'tod), n. A toad. [Colloq.] hop-vine, n.—Devil's hop-vine. See *devil.—Hop-vine hypena, thecla. See *Hypena, *Thecla.

hor. An abbreviation (a) of horizon; (b) of

vine hypens, thecls. See *Hypens, *Thecls.

hor. An abbreviation (a) of horizon; (b) of horology.

Horæ (hō'rē), n. pl. [L. Horæ, < Gr. 'Qpat: see hour.] The Hours.

mythology the Horæ are personifications of the same class as the Mœre, Charites, and Musse. They presided over the meteorological phenomena which regulate vegetation and animal life and were almost invariably benignant. They served Zeus by opening and closing the doors of Heaven. In Homer and the Homeric Hymns their number is vague. Hesiod makes them three, and calls them Eunomis, Dike, and Eirne. On the vases, early and late, either two or three Horæ are represented. The Horæ are prominent in the poems of Pindar, who retains the names and number of Hesiod. He uses them to express the beauty of spring, and youth, and all loveliness. The city of Corinth was their preferred abiding-place. In later mythology the Horæ were merged in the Seasons and their number was fixed at four.

Horary prediction. See *prediction.*



Horary prediction. See *prediction. horbachite (hor'bach-īt), n. An iron-nickel sulphid related to pyrrhotite: from Horbach in the Black Forest.

hordeic (hôr-dē'ik), a. [L. horde-um, barley, +-ic.] Noting an acid, a colorless compound, C₁₂H₂₄O₂, prepared by the action of dilute sulphuric acid on barley. It crystallizes in plates, melting at 60° C.

hordeiform (hôr-dē'i-fôrm), a. [L. hordeum, barley, + forma, form.] Having the form of barley-grains; resembling barley in form.

horismascope (hō-ris'ma-skōp), n. [Irreg. ζ Gr. ὁρισμα, limit, bound, + σκοπεῖν, view.] An apparatus for detecting albumin in urine. See *albumoscope.

*albumoscope.

horizon, n.—Apparent horizon. See horizon, 1.—
Axis of the horizon, a perpendicular to the plane of the horizon at the point of observation.—Contracted horizon, a horizon whose limits are less than normal because of mist, rain, snow, or snoke.—Mean horizon, the middle position in any irregularity of the horizon, the middle position in any irregularity of the horizon.
—Oblique horizon, the horizon of a place so situated that the celestial pole is neither in its zenith nor on its horizon. This is the case for all stations except at the equator or the poles of the earth.—Paradoxides horizon. See *Acadian, n., 2.—Real horizon, the astronomical horizon: sistinguished from the apparent horizon, which is affected by dip and refraction.—Right horizon, the celestial horizon of a place on the equator, the plane of which is perpendicular to that of the equinoctial circle: opposed to oblique horizon, that of any place between the equator and either pole. N. E. D.—Bensible horizon, the plane which touches the earth at the place of the observer and extends to the celestial sphere.

horizon (hō-rī'zon), v. t. To limit or bound by

observer and extends to the celestial sphere.

horizon (hō-ri'zon), v. t. To limit or bound by a horizon. Mary Howitt.

horizontal. I. a.—Horizontal candle-power, moon. See *candle-power, *moon!.

II. n. 2. Anodopetalum biglandulosum, a Tasmanian plant of the family Cunoniaceæ, which sometimes forms a tree 60-70 feet high, which sometimes forms a tree ou-10 reet nign, with a trunk 4 feet in circumference. It is named from its peculiar habit of growth. The main stem after reaching a certain height assumes a horizontal or drooping position, from which the branches ascend and repeat the action of the stem. The same is done by the secondary branches, all of which interlock and form an almost impenetrable thicket known as horizontal scrub.

horizontalism (hor-i-zon'tal-izm), n. The quality or state of being horizontal; horizontal character.

character.

horizontalize (hor-i-zon'tal-iz), v. t. and i.; pret. and pp. horizontalized, ppr. horizontalized, pp. horizontalized, pp. horizontalized, pp. horizontalized, pp. ho

hoppity (hop'i-ti), n. [hop1 + -ity, a termination expressive of quick motion.] Same as [NL. dim. of Gr. ορμή, onset, attack (†).] In *halma. craniom., the point where the lower border of the yomer touches the base of the skull. Von

Hormogoneales (hôr'mō-gō-nē-ā'lēz), n. pl. [Gr. δρμος, necklace, + γόνος, offspring, + -ales.] An order of blue-green algæ which always consist of more than one cell. The cells may or may not be branched, and either have or have

may not be branched, and either have or have not an outer gelatinous sheath.

horn, n., 4. (t) In sheet-metal work, an attachment to a press which, in its most simple form, resembles the horn of an anvil. In seaming and pressing locked sheets of tin together it serves as the anvil on which the joined sheets are laid while the press bends the seams down. It gives name to the work of horning, or seaming with a horn, and to the horning-press, a press on which horning is done. (u) In organ-building, a reed-stop with a tone like that of the French horn. (v) In golf, same as \$\phione\text{nonle, 10. (w)}\$ The bare branch of a leafless tree. [Figurative.] Tennyson, In Memoriam, cvii. (x) One of the branches of the V-shaped comb found in such breeds of poultry as the Polish and La Fleche.

7. In archery: (a) The tip at each standard.

7. In archery: (a) The tip at each end of bow, usually made of horn and provided with a nock for fastening the bowstring. (b) A re-inforcement at the butt of an arrow, fitted with a nock for tastening the bowstring. (b) A reinforcement at the butt of an arrow, fitted with a nock to receive the bowstring: usually made of horn. (c) The portion of a composite bow which is made of horn: see bow2, 2.—8. In mach., a curved lever, pivoted on the side of a planing-machine, which, on being knocked over by the tappets on the moving table, gives, through a linkage, the reversing movement to the driving mechanism.—Outaneous horn, a horn-like excrescence on the skin of the head or other part.—Following horns, in dynamo-electric machinery, those horns of a generator away from which the armature moves in its rotation.—Hollow horn. Same as *horn-ail.—Horn of a dynamo, in elect., that edge of the face of the pole-piece of a generator or motor which runs parallel to the axis of the armature.—Horn of consecration, in Mycenæan art, a pictographic type representing a cult-form found in connection with the double ax and pillar. It is a compound of a rectangular base with two horn-like projections at either end. The horns are usually quite conventional, but sometimes resemble the horns of oxen. The object was evidently portable and placed upon altars. It is frequently set at the foot of a sacred tree or column.

The columns are clearly indicated as aniconic images by the horns of consecration, blaced beside them and at their

evidently portable and placed upon altars. It is frequently set at the foot of a sacred tree or column.

The columns are clearly indicated as aniconic images by the horns of consecration placed beside them and at their feet. A. J. Evans, in Jour. Hellenic Studies, XXI. 128.

Horn tenure. See *tenure.—Impressed horn, horn molded into various forms after it has been softened in boiling water. It is common in the industrial arts. As a fine art the impressing of horn has been carried to a high state of perfection in China and Japan, and in Europe, where it has been much used for snuff-boxes.—Leading horns, in dynamo-electric machinery, those horns of a generator or motor toward which the armature is carried in its revolution.—Miners' horn, a shallow spoon of horn, rubber, or metal for collecting particles of gold by washing.—Perioplic horn, a thin varnish-like layer of glistening horn secreted by the perioplic band of the hoof and forming the outer surface of its wall. It prevents evaporation of moisture from the wall of the hoof.—Spouting horn, a sea-cave which penetrates far into an overhanging cliff and pierces the roof, so that an opening is made to the surface. Incoming waves force their way through the eavern and dash spray through the funnel-like opening on top of the cliff.—To take a horn, to take a drink of liquor. [Colloq.]

horn, v. t. 6. To operate upon by means of a horn-press or horning-press. See *horn, n.,

hornbill, n.— Helmet-hornbill, Buceros galeatus, a species characterized by having a thick and nearly vertical horny outgrowth from the top of the beak: found in Borneo and Sumatra. Also helmeted hornbill.

Hornblende schist. See hornblende rock and

hornblendite (hôrn'blen-dīt), n. [hornblende + -ite².] A rock composed entirely or almost entirely of hornblende, a variety of igneous

rock closely related to the periodities.

hornblock (horn'blok), n. A steel or iron casting riveted to a locomotive frame to receive the axle-box, which it constrains to move only vertically.

horn-blower. n. 2. In entom., a southern United States tobacco-growers' name for the tobacco sphinx-moth, *Phlegethontius carolina*, the parent of the horn-worm of tobacco.

horn-cell (hôrn'sel), n. One of the ganglion-cells belonging to the anterior or posterior cornua of the spinal cord.

Most of these fibres run upwards, but some descend to form synapses with dorsal horn-cells on a lower level.

Encyc. Brit., XXV. 400.

Most of these fibres run upwards, but some descend to form synapses with dorsal horn-cells on a lower level.

Encyc. Brit., XXV. 400.

Horn's to the street to the surface.

hornswoggle (hôrn'swog-l), v. t.; pret. and pp. hornswoggled, ppr. hornswoggling. To humburg is bamboozle; badevil. [Slang.]

horn-worm of toosacco.

ozoa belonging to the family Idmoneidæ. It has free or anastomosing zoaria, subcylindrical branches, and irregularly distributed zoœcial apertures. It extends from the Cretaceous to recent time.

hornerah (hôr'ne-rā), n. [Native Australian: cf. *woomera.] A throwing-stick with a peg at one end which fits into a socket in the spearshaft. By swinging the throwing-stick the spear is propelled by this peg and thrown with greater force than can be given to it by the hand alone. Similar devices are used by the Eskimos, the Mexicans, and some South American Indians. See **atlatl, throwing-stick.* [Australia.]

Horneridæ (hôr-ner'i-dê), n. pl. [NL., < Hornera + -idæ.] A family of eyelostomatous, gymnolæmatous Polyzoa, in which the zoœcia open on one side only of a ramose zoarium and are never adnate and repent. It contains the genus Hornera.
hörnesite, n. See *hoernesite.

Hornets'-nest beetle. See *beetle2. — White-faced hornet. Same as white-faced *wasp.

hornet-hawk (hôr'net-hâk), n. Same as hor-

hornfels (hôrn'felz), n. [G. horn, horn, + fels, stone.] In petrog., a dense, aphanitic rock composed of feldspar, quartz, and other minerals, usually a product of the contact-metamorphism of an intrusive rock upon shale or other sedimentary rock. Sometimes called

hornfelsed (hôrn'felzd), a. In geol., changed to hornfels in contact-metamorphism.

The Old Red Sandstone is indurated and often horn-felsed to a varying distance from the margin. Rep. Brit. Ass'n Advancement of Sci., 1901, p. 634.

horn-flint (hôrn'flint), n. A flint resembling

horn in appearance and translucency.

horn-fly (horn'fli), n. 1. An injurious muscid
fly, Hæmatobia serrata, common to Europe and



a, egg; b, larva; c, puparium; d, adult in biting position.
All enlarged.

the United States: named from its habit of

the United States: named from its habit of clustering on the horns of cattle. It annoys cattle greatly by its bite, and lays its eggs in freshly dropped cow-dung in which its larve live.

2. A sphingid moth: same as *horn-blower, 2. horn-hipped (hôrn'hipt), a. Having the point of the ilium (haunch-bone) projecting too high: said of a horse.
horning, n. 4. See *horn, n., 4 (t).
horning-press (hôr'ning-pres), n. See *horn, n., 4 (t).

horn-ail (hôrn'āl), n. An imagined disease of cattle, having no scientific foundation. Also called hollow horn.

horn-beetle (hôrn'bē'tl), n.—spotted horn-beetle, Dynastes tityus. See Dynastes and rhinocerosbeetle, Dynastes tityus. See Dynastes and rhinocerosbeetle, Dynastes tityus. See Dynastes and rhinocerosbeetle.

gyrite.

horn-ray (hôrn'rā), n. A fish, Rhinobatus banksii, one of the thick-tailed rays found in Australia and New Zealand. Also called shovel-nosed ray. Horn's azotometer. See *azotometer.

horn-shell (hôrn'shel), n. A horn-shaped, many-whorled univalve shell of the genus

horn-slate (hôrn'slāt), n. Same as hornstone. horn-snake, n. 2. The bull-snake or pine-snake of the central United States, Pityophis melanoleucus, a large species marked with black and white.

horn-socket (hôrn'sok'et), n. In well-boring, a fishing-tool terminating in a hollow cone or bell which is rammed down over the broken ends of rods or tools to bring them to the surface.

pp. hornswoggle (norn swog-1), v. t.; pret. and pp. hornswoggled, ppr. hornswoggling. To humbug; bamboozle; bedevil. [Slang.] horn-worm (hôrn'werm), n. Any sphingid larva which bears a horn at its anal extremity; specifically, the tobacco horn-worm, larva of Phlegethontius carolina.

horoeka (hô'rô-ā'kä), n. [Maori.] In New Zealand, a very variable tree of the ginseng family, Pseudopanax crassifolius, sometimes called grass-tree. See *grass-tree, 4 (a).

horografy, etc. A simplified spelling of horog-

horopito (hō'rō-pē-tō), n. [Maori.] A small evergreen New Zealand tree, Drimys axillaris, belonging to the magnolis family. The flowers are very fragrant, and the whole plant is aromatic and stimulant. It is used by the Maoris for various diseases. Also called pepper-tree.

horoscopal (hō-ros'kō-pal), a. [horoscope + -al¹.] Of or pertaining to a horoscope.

horoscopography (hor ō-skō-pog'ra-fi), n. [Gr. ώροσκοπείον, horoscope, + -γραφία, < γράφειν, write, draw.] The art of drawing horoscopes. [Rare.]

horrescent (ho-res'ent), a. [L. horrescens, ppr. of horrescere, \(\chi horrere, \) bristle, shake, shudder: see horrent.] Bristling with horror; shuddering. [Rare.] N. E. D.

horripilant (ho-rip'i-lant), a. [L. horripilans (ant-), ppr. of horripilare: see horripilation.]
Causing goose-flesh.

horripilate, v. t. II. intrans. To have goose

horse¹, n. 1. The researches of Ewart, Osborn, and others show the probability that the modern horse, like the dog, has been derived from several sources. Prjevalsky's horse is considered to be one of these, while two other forms are recognized—the Celtic pony and the Norse horse.

 $\mathbf{5}_{\bullet}$ (i) One of the inclined timbers in a staircase which support the steps.

support the steps.

6. In mining: (b) A lenticular bed of shale or old channel fillings which cuts out coalseams.—12. In chess, same as knight. [Rare.] Staunton, Laws and Practice of Chess, p. 4.—13. In astron., the constellation of Pegasus (see flying *horse); also, the equine part of Sacittarius (represented as a centaur).—14. A Danish silver coin of the value of 1s. 2d.— Sagittarius (represented as a centaur).—14. A Danish silver coin of the value of 1s. 2d.—A Danish silver coin of the value of 1s. 2d.—Celtic horse, the variety characteristic of western Europe, found in a pure state in Iceland, and called by Ewart E. caballus celticus. The Shetland pony is an example of this large-headed, rough-haired variety or species.—Curly horse, a local breed of Indian ponies having a rough, curly coat.—Cutting horse, in stockraising in the western United States, a horse trained to cut cattle out of a herd. See to cut out (g), under cut.—Flying horse, the mythical winged horse of the Muses, Pegasus; hence, in astron., the constellation Pegasus. N. E. D.—Fore-sheet horse (naut.) an iron span set athwartships at the middle of the deck under the after end of the fore-boom on a schooner, for the fore-sheet block to travel on; also, a like span for a forestaysall-sheet block to travel on when the latter sall has a boom to which its foot is laced. See fore-sheet *traveler.—Grass horse, a horse which has been living entirely on pasture. N. E. D.—Horse and horse, equally divided or matched; no one better than the other. [Colloq., U.S.]—Irish horse, old pickled beef. [Sallors' slang.]—Iron horse (b), naut., the deck-horse on which the traveler of the fore-sheet or boom-sheet slides horizon-tally across the deck.—Line horse, in lumbering, the horse that drags the cable from a yarding-engine to the log to which the cable is to be attached.—Little horses, the modern substitute for roulette. See petits cheaux, under *cheval.—Norse horse, the variety of horse peculiar to northern Europe and assumed by Ewart to be that on which Linneus based his species Equus caballus on which Linneus based his species Equus caballus called by Ewart E. caballus typicus.—Prjevalsky's horse, Equus prjevalskyii, the only true horse now found in a wild state: discovered in 1881 in the desert region of Central Asia near Zaisan. It is of small size, of a dun color, without a dorsal stripe, and with an erect mane.



Prjevalsky's Horse (Equus prjevalskyii).

horny, a., 2. (b) In bot.: (2) More or less translucent and of a flinty texture; glassy: said chiefly of the grains of the harder wheats, characterized by a large glutten content. Compare *starchy2, 2, and see *farinatome. (d) In petrog., flint-like; having a compact, homogeneous texture like that of horn or flint.

Note: A compact *starchy2, 2, and see *farinatome. (d) In petrog., flint-like; having a compact, homogeneous texture like that of horn or flint.

Note: A compact *starchy2, 2, and see *farinatome. (d) In petrog., flint-like; having a compact, homogeneous texture like that of horn or flint.

Note: A compact *starchy2, 2, and see *farinatome. (d) In petrog., flint-like; having a compact, homogeneous texture like that of horn or flint. wooden horse or stand. Mod. Amer. Idnning, p. 169.—To horse logs, in river-driving, to drag stranded logs back to the stream by the use of peaveys.—To horse out, in carp., to cut, as a plank or beam, with a saw: used chiefly in connection with the string-piece of a stair, which is said to be horsed out when the support of the treads is got by cutting material away in the form of a notch, but ploued out when a broad groove or slot is cut to receive the ends of the treads.

horse-ambulance (hôrs'am'bū-lans), n. A vehicle used for the conveyance of sick or wounded horses or other large animals. That used by the New York Society for the Prevention of Cruelty to Animals has a large padded box hung very low and a windlass attached at the front end.

horse-bean, n. 2. In the southwestern United States, either of two species of palo verde, Parkinsonia aculeata and P. microphylla, the

twigs of which are eaten by horses.

horse-bee (hôrs'bē), n. Same as horse-bot.

horse-bucket (hôrs'buk'et), n. A covered bucket for carrying water or spirits. [Sailors' slang.

stang.]
horse-bush (hôrs'bush), n. In the Bahamas,
a tree of the family Cæsulpiniaceæ, Baryxylum
adnatum (Peltophorum adnatum of Grisebach).
horse-conch (hôrs'kongk), n. A large univalve shell, Strombus gigas.
horse-course (hors'kōrs), n. A race-course;

also, a horse-race. Swift. horse-cradle (hôrs'krā"dl), n. horse-cradle (hôrs'krā'dl), n. A device, consisting of narrow strips of wood connected by leather straps, placed about a horse's neck to prevent him from turning his head sideways. horse-daisy, n. 2. The mayweed. horse-dam (hôrs'dam), n. A temporary dam made by placing large logs across a stream, in order to raise the water behind it so as to float logs on the rear.

Horse-eye jack. See *jack1.
horse-fiddle (hôrs'fid'l), n. A device for making a noise, usually consisting of a large, open packing-box across the rosined edges of which a rough plank or rail is drawn like a huge bow. A device, con-

packing-box across the rosined edges of which a rough plank or rail is drawn like a huge bow. [Colloq.]
horse-fig (hôrs'fig), n. See *fig².
horse-flesh, n. 4. In Guiana, the dark-red flesh-colored wood of the bully-tree, Minusops Balata, or that obtained from panceoco, Tounatea tomentosa. See bully-tree and panococo, 2.

norse-fly, n.—Black horse-fly, any black dipterous insect of the family Tabanida; specifically, Tabanus atratus, a large species having a wide distribution in the United States.—Mourning horse-fly. Same as black *gadfly.

Horsefoot oil. See *oil.
horse-gentler (hors'jen'tler), n. A horse-breaker.

horse-gold (hôrs'gōld), n. Same as *gold-weed. horse-grease (hors gres), n. Fat obtained from the carcasses of horses: used in soap- and candle-making.

Horsehair case, a bag or envelop made of horsehair in which the meal produced by grinding oil-seeds (colzased, cotton-seed, etc.) is subjected to pressure in order to extract the oil.— Horsehair snake. Same as *hair-snake.

which the mean proceed, etc.) is subjected.

which the mean proceed, etc.) is subjected.

seed, cotton-seed, etc.) is subjected.

seed, cotton-seed, etc.) is subjected.

shortse-towe.

horse-towe.

towel for general use, number towel.

Horse-towel.

Horse-towel.

Horse-towel.

Horse-towel.

Horse-towel.

Horse-towel.

Horse-towel.

Horse-towel.

Horse-towel.

horse-tub (hôrs'tub), n. A harness-cask.

horse-watcher (hôrs'woch'er), n. One who is in the habit of observing the performance of race-horses, in order to come to some conclusion chances of winning.

horseless (hôrs'les), a. [horse+-less.] Having no horse; propelled without the aid of horses.—
Horseless carriage, a carriage not intended to be drawn by horses, but propelled by an electric or other motor.
horse-lily (hôrs'lil'), n. Same as beaver-*lily.

1. A pediculid.

SHARE

horse-louse (hôrs'lous), n.

Hæmatopinus asini, commonly known as the sucking horse-louse.—2. A mallophagan, Trichodectes pilosus, commonly known as the biting horse-louse. Both of the above species occur also on asses and mules.

also on asses and mules.

horse-mackerel, n. (h) In

Sydney, Australia, Auxis ramsayi,
of the family Scombrids: in

New Zealand, Trachurus trachurus, which is the same fish as the
horse-mackerel of England. Austral English.

horseman-crab (hôrs'mankrab), n. Same as chevalier Hone louse (Trichodectes pilosus).

Much enlarged. horse-nicker (hôrs'nik'er).

n. [horse1, n., 11, + nicker2, 3.] A seed of the

nicker-tree. The lead-colored seeds of Guilandina Crista, and especially the yellow seeds of G. major, are used by children in the West Indies for playing marbles. nicker-tree

horse-platform (hôrs'plat"fôrm), n. In mining, the switches and crossing used with the rails of a horse-road.

ing, the switches and crossing used with the rails of a horse-road.

horse-power, n.—Brake horse-power, the nethorse-power developed by an engine, motor, or turbine as shown by a friction-brake or dynamometer; the horse-power actually delivered by the engine or motor. Trans. Amer. Inst. Elect. Engin., 1899, p. 34.—Effective horse-power, in naval arch., the net horse-power required to drive a vessel at any given speed, or the work expressed in horse-power that would be necessary to tow the vessel without screw-propellers or paddle-wheels at a given speed. It is that part of the indicated horse-power of the propelling engines which remains after deducting the losses due to engine-friction, inefficiency of the paddles or propellers in the water, etc.—French horse-power, the work done in raising 75 kilograms one meter in one second, or 4,500 kilograms one meter in one minute; it is about 1½ per cent. less than the horse-power founded on the English foot and the avoirdupois pound. See metric whorse-power of motor, made up of the net horse-power together with that wasted on its own friction: same as indicated horse-power (which see).—Horse-power hour. See whour.—Horse-power of water, the horse-power developed by falling water, one horse-power hour.

See whour.—Horse-power of water, the horse-power the metric units are in use. It equals 32.549 foot-pounds with a head of one foot.—Metric horse-power, the horse-power which an engine or a motor develops above that needed to overcome its own friction.

horse-power which an engine or a motor develops above that needed to overcome its own friction.

horseradish-tree, n. 2. In Australia, a tree of the pokeweed family, Gyrostemon cotinifolius, so called from the taste of its leaves. The bark contains a bitter principle, for which reason it is also known as quinine-tree and medicine-tree.

horseshoe, n. 2. (d) Naut., a composition strap bent in the form of a horseshoe and used for fastening the stem to the keel.— Horseshoe nebula. See *nebula.

horseshoe-fern (hôrs'shö-fern), n. See *fern1. horseshoe-grass (hôrs'shö-gras), n. See *side-

horse-sickness (hôrs'sik'nes), n. An infectious disease of horses, mules, and asses, observed only in South Africa, characterized by extensive serous exudations, and caused by an organism so minute as to pass through the pores of a filter.

An interesting interim report upon Cape horse-sickness has been published by Dr. Watkins Pitchford, the Government bacteriologist of Natal. In some respects this disease resembles human malaria, for it especially attacks horses kept on low-lying marshy ground, and those animals left to graze all night. In affected districts horses may be moved during the day without contracting the disease. Dr. Pitchford now suggests that a mosquito, probably of the genus Anopheles, is responsible for the conveyance of the infection. Nature, June 4, 1903, p. 110.

horsetail, n. 5. In meteor., a form of cirrus cloud.—Horsetail agaric, an edible mushroom, Coprinus comatus, having a shaggy pileus.
horse-tamer (hôrs'tā'mer), n. One whose business is the taming of unruly horses; a

horst (hôrst), n. [G. horst, a wood, grove, thicket, high nest, aery, retreat, also sandbank, sandy islet.] In geol., a term introduced by E. Suess to denote areas of the earth's surface which have acquired immobility and have served as buttresses against which surrounding areas have been pressed and dislocated in the general rupture and subsidence of the terrestrial crust.

The region has occasionally been much faulted, and locally crushed up against a "horst" of Archæan rock.
Nature, June 4, 1903, p. 105.

hort., hortic. Abbreviations (a) of horticul-tural; (b) of horticulture.

Hortensia (hôr-ten'si-a), n. The greenhouse hydrangea, Hydrangea opuloides (H. hortensis of Smith, H. Hortensia of Siebold), of which a or smith, H. Horiensia of Siebold, of which a great number of horticultural forms are known. The species is Chinese and Japanese. It varies into two fairly well marked groups: the hortensia group, with globose flower-trusses and nearly all the flowers sterile and enlarged, and the japonica group, with the trusses nearly or quite flat and bearing both fertile and sterile flowers.

horticulture, n.—Landscape horticulture, that part of horticultural discussion and practice that has to do with planting and lawn-making for artistic effects. It

is one of the crafts on which landscape gardening or land-Horton series. See *series.

hose, n. 9. In entom., a peculiar organ or gland at the base of the tarsal claws of the Psocidæ.—10. The wide trousers formerly Procide.—10. The wide trousers formerly worn by seamen.—Armored hose, rubber hose about which steel wire is wound spirally to protect it from injury. hospital, n., 3. The term is now extended to include establishments for the care and cure of sick or injured animals, such as horses, dogs, cats, etc.—Hospital bed, sore throat, tax. See *bed1, *throat, *tax.—State hospital, an institution for the insane conducted by a State government.

hospital (hos'pi-tal), v. t.; pret. and pp. hospitaled, hospitalled, ppr. hospitaling, hospitalling.

To receive and care for in a hospital.

To receive and care for in a hospital.

hospitant (hos'pi-tant), n. [G. hospitant, (L. hospitans (-ant-), ppr. of hospitari, be a guest: see hospitate.] A special unmatriculated foreign student at a German university who enjoys all the privileges of a regular student (except that of graduating) and is enrolled as a 'guest.'

These figures, however, include only the lawfully immatriculated students; to them must be added those who are enrolled as hospitants, of which 9,187 are reported in the foregoing table, including 7,874 male and 1,313 female attending as special students,

Science, April 8, 1904, p. 596.

Hosselkus limestone. See *limestone.

which, during their course of development, inhabit dif-ferent hosts, that host in which the sexual phases of the

parasite are passed. hostly (host li), α . [host² + -ly¹.] Pertaining or proper to a host.

host-plant (hōst'plant), n. In bot., same as host², 2(a).
hot¹, a. 9. Ardently or earnestly supported, as indicated by the betting: as, a hot favorite.

Racing slang.]—Hot air, wasted breath; talk that will result in nothing; applied often to anything said or threatened which the hearer or the criticized does not like. [Recent political slang, U.S.]
hot-closet (hot'kloz"et), n. 1. A closet, attached to a stove or some other source of heat,

in which dishes and food are kept warm .in which dishes and food are kept warm.—2. In candle-making, a heated chamber in which candle-molds are kept warm previous to being used, to prevent the chilling of the stearic acid. hot-drawn (hot'drau), a. That has been drawn through dies while hot: said of pipe or rods. Hotei (hô'tā), n. [Jap.] One of the seven beneficent beings of the Japanese pantheon: represented as a fat, smooth-faced man, with a protruding, naked abdomen, and usually carrying a big hempen bag.

rying a big hempen bag.

Hotei, the Japanese transcription of the Chinese Putai, presents Putai Hoshang, the "Monk with the Hempen ag," of Chinese Buddhist lore.

S. W. Bushell, Oriental Ceramic Art, p. 757.

hotfoot (hot'fut), v. t. To chase or pursue in hot haste; follow at a hot pace. [Colloq.]

Zuléma discovers her irate father, who . . . (has) been to to to dup hill and down dale by the bloodthirsty Angais.

F. B. Smith, How Paris Amuses Itself, p. 103.

hot-plate, n. 2. In gas-fitting, a small portable cooking-appliance consisting of an iron table supported on short legs and having one or more Bunsen burners for boiling, etc. hot-pot, n. 3. A local name in Utah of certain

hot calcareous springs which have built up mounds of tufa around their orifices. Within, the waters bubble with carbonic-acid gas, and, unless artificially tapped below, flow off over the rim, thus constantly adding tufa to the mounds. Sci. Amer. Sup., Sept. 12, 1903, p. 27157.

hot-stoking (hot'stō"king), n. In glass-manuf., the operation of raising the temperature of the furnace until the batch or frit in the melting-pot, is completely fused. Same as fining or

pot is completely fused. Same as fining or

refining. Compare cold-stoking.

Hottentot apron. Same as *tablier, 2.—Hottentot rice. See *ricel.

Hottentot's-god (hot'n-tots-god), n. African mantis, worshiped formerly by the Hottentots

hot-tube (hot'tūb), n. and a. I. n. A tube which is kept red-hot by a flame and is used for igniting the charge in an internal-combustion engine.

II. a. Using a red-hot tube as a torch or

igniter.—Hot-tube igniter. See $\star igniter$.

hot-well, n. 2. A hot spring, especially one at whose orifice there is a pool of relatively quiet water.

hot-windy (hot'win'di), a. Characterized by

New Zealand of two trees belonging to the mallow family. Both of them have tough bark, which in former times was used by the natives for making taps, or bark-cloth. One, Hoheria populnea, known also as the lacebark or thousand-jacket, has bark which readily separates into many thin, lace-like layers. It is distinguished by having fruit composed of 5 separable carpels. The other, Plagianthus betulinus, known commonly as ribbonwood, is a much larger tree than the preceding. It has fruit consisting of a single naked capsule. Also called hout and whauwhi. See ribbonwood and lacebark, 3. New Zealand of two trees belonging to the

bark, 3.
hound, n.—Cat-hound, a breed of hounds used for hunting wildcats and pauthers.—Orion's hound, the constellation of the Greater Dog.—Rampur hound, an East Indian breed of dogs, resembling the Great Dane, used for hunting.—Smooth hound, a small blunt-toothed shark, Mustelus mustelus.—The hound of hell, Cerberus, the three-headed watch-dog who, according to Greek mythology, was stationed at the entrance of hell to see that the living did not enter or the dead escape.

houndfish, n. 5. A name applied to fishes of the genus Tylosurus, especially to T. raphidoma and T. acus, both of the West Indies.

hour, n. 6. In astron. and geog., an angular measure of right ascension or longitude, being measure or right ascension or longitude, being the twenty-fourth part of a great circle of the sphere, or fifteen degrees. N. E. D.—Eighthour movement. See *ciyht!.— Horse-power hour, a compound unit, used in comparing efficiencies, equivalent to one horse-power maintained for one hour.— Long hours, the hours which are struck with a great number of strokes, as eleven and twelve.—Lunar hour, the twenty-fourth part of a lunar day, that is, of the interval time between two successive transits of the moon across the meridian.— Metric horse-power hour, an amount of work equivalent to a metric horse-power exerted for one hour.— Planetary hour, in astrol., the twelfth part of the time occupied between the sun's rising and setting, or vice versa: supposed to be ruled in rotation by the seven planets.—Shop-hour. (a) A unit of the time required for doing a piece of work, consisting of the total number of hours spent by all the men who have worked upon it divided by that number. (b) One hour in a shop. In many technical schools students are required to spend a certain number of hours in workshops. These are called shop-hours, to distinguish them from the hours spent in the recitation-room.—Short hours, the hours which are struck with few strokes, as one and two.—The hour, the time in question or particularly referred to; the time being; the moment. the twenty-fourth part of a great circle of the

Hour-glass screw, spring, stomach. etc.

hour-index (our'in'deks), n. An index or pointer which can be turned to any hour marked on the hour-circle around the pole of an artificial globe.

hour-stroke (our'strok), n. One of the strokes or marks which indicate the hours on a dialplate.

hour-watch (our'woch), n. A watch with a single hand which indicates only the hours.

hour-zone (our'zon), n. One of the strips or lunes of the earth's surface separated by meridians 15 degrees apart on the equator, beginning with the standard meridian of Greenwich. The standard time for all places within any one hoursone is the same, or should be, except when local circumstances make it convenient to shift the dividing lines a little. The minutes and seconds on this system are everywhere identical with those of Greenwich time.

The groups of 15 degrees of longitude form naturally the 24 hour-zones into which the circumference of the equator is divided, and which, numbered from 0 to 23, will give the time of all places on the Earth in terms of the initial hour.

Geog. Jour. (R. G. S), XL 677.

initial hour. Geog. Jour. (R. G. S.), XL 677.

hOuse¹, n.—Black house, a rude house built of stone, without windows, used in some parts of Scotland for a habitation and for sheltering domestic animals.—Down the house, up the house, two terms used to denote the direction with reference to the iron pots employed in the Pattinson process (which see, under process) for the extraction of silver from lead. The former denotes the direction toward the market-pot, while the latter refers to the contrary direction. The process is now almost obsolete.—House burn. See *burn¹, n., 5 (b).—House of eternity, or of graves, or of life, a Jewish cemetery.—Keeping house, in Eng. law, the act of a man in business, who indicates by his keeping away from his place of business and remaining at home an intention to evade his creditors: implying an act of bankruptey. [Slang.]—Tied house, an establishment engaged in retail trade, particularly a public house or saloon, which is under contract to sell the goods of a particular producer (a brewer or distiller) who is usually its backer. [Eng.]

The consumer has (owing to the "tied house" system) in many cases no choice but to drink the beer offered him, and is therefore practically not a free agent.

Encyc. Brit., XXVI. 363.

To make a house, in parliamentary parlance, to see that a quorum is present.

And in the absence of party government, it was nobody's business to make a hous Jour. Hellenic Studies, VIII. 108.

house², n. 3. In some tunicates, as Appendicularia and Oikopleura, a temporary gelatinous envelop, representing the tunic of other forms. It is formed with great rapidity as a secretion from the surface of the ectoderm and is frethe presence or the prevalence of the 'hot wind' of Australia: as, hot-windy weather.

See *wind^2. [Australia.]

houhere (hō-ö-hā'rā), n. [Maori, < hou, bind or fasten together, + here, tie.] A name in house-ant (hous'ant), n. Any ant which habit-

ually enters houses, or nests in the walls, such as Monomorium pharaonis, M. minutum, and Tetramorium cæspitum.

house-barge (hous'bärj), n. A house-boat.

house-barge (hous barj), n. A house-boat.
house-bound (hous'bound), a. Confined to the
house, as with sickness; 'shut in.'
housebreaker, n. 2. Same as *house-wrecker.
house-builder (hous'bil"der), n. One whose
business is the building of houses; specifically, a carpenter who gives special attention to the

a carpenter who gives special attention to the construction of wooden dwelling-houses.—
House-builder moth. See *moth!.
house-burn (hous'bern), n. See *burn!, 5(b).
house-carpenter (hous'kär"pen-ter), n. A carpenter who works upon the trim and interior finish of a house, as distinguished from a ship-carmenter. [Great Reitein!]

ship-carpenter. [Great Britain.] house-fly, n.—Little house-fly, a small anthomyid fly, Homalomyia brevis, found commonly about houses and breeding in decaying vegetable material and dung.

house-mosquito (hous'mus-kē'tō), n. The common cosmopolitan mosquito, Culex pipiens, which usually breeds in and about houses.

house-mover (hous'mö'vèr), n. A man engaged in raising and moving buildings by means of jack-screws and rollers moving upon prepared wooden ways.

housesmith (hous'smith), n. A mechanic who works upon the ironwork of buildings.

house-staff (hous'staf), n. The resident physicians and surgeons in a hospital.

housework (hous'werk), n. Domestic work; the work of housekeeping.

house-wrecker (hous'rek'er), n. One who takes down old buildings and sorts out and saves the materials for future use. In England, called a housebreaker.

housing¹, n. 8. (b) The inboard end of the bowsprit; also, that part of a mast that is be-

low the upper or spar-deck.

housing-bolt (hou'zing-bolt), n. A bolt above a gun-port on a war-vessel, used in housing a gun.

housing-line (hou'zing-lin), n. Naut., a line used in housing an awning.

housing-pivot (hou'zing-piv'ot), n. Naut., the bolt which locks a gun-carriage in the desired position.

housing-topmast (hou'zing-top'mast), n. A topmast rigged so as to be lowered without loss of time.

houtberg (hout'berg), n. [D., < hout, wood, + berg, hill, mountain.] A wooded mountain. [South African Dutch.]

Hovenia (họ-vẽ'ni-ặ), n. [NL. (Thunberg, 1781), named in honor of David Hoven, a Hovenia (hō-vē'ni-ā), n.

senator of Amsterdam and a patron of Thun-berg's botanical expedition to Japan.] A genus of trees of the family Rhamnafamily Khamna-ceæ. There is only one species, H. dul-cis, remarkable for the curious fleshy, edible pedicels of the fruit. It is occasion-ally cultivated in the United States and is United States and is hardy as far north as Washington. It is known as Japanese raisin-tree and coral-tree. See *coral-tree,

hover, n. 3. Same as hoverer. hover-fly (huv'-er-fli), n. Any one of very many

flies of the families Syrphid and Size (upper figure); cluster of fruit, one third natural size (lower figure). which hover over

flowers, rapidly vibrating their wings while searching for honey. Nature, Dec. 17, 1903,

howardite (hou'ärd-īt), n. [Named after Edward Howard, who first showed (1802) the presence of nickel in meteoric iron.] A kind of meteoric stone or aërolite. See *meteorite. howarditic (hou-ër-dit'ik), a. [howardite +
-ic.] Relating to or resembling howardite.
howdenize (hou'dn-īz), v. t.; pret. and pp.
howdenized, ppr. howdenizing. To equip with
the Howden system of forced draft, in



which the air supplied to the furnace is heated by the waste heat from the products of combustion

howell (hou'el), n. [Perhaps for *howl, dial. variant of hole¹.] The upper stage of a porcelain kiln. Also called crown and cowl. Wagner, Chem. Technol.

howl, v. i. 4. Of an organ-pipe, same as cipher, v., 4.

howler, n. 3. A calling device employed in telephony in place of the magnetic call-bell; a buzzer. [Slang.]

When a subscriber leaves his receiver off the hook, no busy signal is made should a call for that telephone be made. By means of a "houler" current the diaphragm of the hanging receiver is vibrated rapidly to attract the subscriber's attention.

Elect. World and Engin., July 4, 1903, p. 12.

howo (hō'wō'), n. [Jap. hōwō, < Chinese fŭng-hwang: see *féng-hwang.] A fabulous bird used as an imperial emblem in Japan; the phenix. See *féng-hwang, with cut.

H. P. An abbreviation (b) of half pay; (c) of High Priest; (d) of high-pressure, when applied to engineers: when applied to engineers: when applied to engineers.

horse-power, and, to prevent confusion, when a high-pressure engine is meant the words should be written out.

H. P. M. An abbreviation of halleluiah particular meter.

H. Q. An abbreviation of headquarters.
hr. A contraction of hour.
H. R. An abbreviation (b) of Home Ruler.
h. r. In elect., an abbreviation of high resis-

H. R. E. An abbreviation of Holy Roman

H. R. I. P. An abbreviation of the Latin hic

requiescit in pace, here rests in peace.

H. section (āch'sek"shon), n. A rolled piece of iron or steel the cross-section of which resembles a capital H, the flanges being wider balance.

See *series.*

Huggins series. See *series.*

Hughes's induction-balance. See *induction-balance.

balance.

balance. than the depth of the beam.

H. S. S. An abbreviation of the Latin Historize Societatis Socius, Fellow of the Historical Society.

ht. A contraction of height.
h. t. An abbreviation of hoc titulo, 'in (or under) this title.'

under) this title.'

H. T. L. An abbreviation of half-tide level.

huacz (hwä'kä), n. [Quichus.] 1. Originally
the generic name for the spirits thought by
the Peruvian Indians to be disseminated
through the whole visible and perceptible
world; also applied to every object, natural
or artificial, supposed to be the abode of such
a spirit. Hence—2. A fetish. The sun, moon,
and sters all meteorologic phenomen. the a spirit. Hence—2. A fetish. The sun, moon, and stars, all meteorologic phenomena, the mountains, rivers, in short, everything striking in nature, and every idol, were huaca.—3. An aboriginal ruin: now the common use of the

aboriginal ruin: now the common use of the word. Any ruin of ancient Indian architecture is a huaca. See *huaco.
huaco (hwä'kō), n. [Also guaco: Quichua.]
In Peru, Bolivia, and Chile, pre-Columbian pottery or other Indian antiquities.
huajillo (hwä-hē'lyō), n. [Mexican.] An evergreen shrub or small tree, Havardia brevifolia, of the mimosa family, growing in southern Texas and northern Mexico.
huantaigutia (hwän,ta,hä'yūt) a Argentif.

huantajayite (hwän-ta-hä'yit), n. Argentif-erous sodium chlorid, found at Huantajaya

erous sodium chlorid, found at Huantajaya mountain in Arequipa.

Huanuco bark. Same as Cuenca *bark.

huascolite (hwäs'kō-līt), n. [Huasco (see def.) + Gr. λίθος, stone.] A sulphid of lead and zinc allied to galena, found near Huasco, Chile, and elsewhere.

hub, n.—Hub-boring machine. See *boring-machine. Htibl process. See *process.

Hubrechtia (hū-brek'ti-ä), n. [NL. (Bürger, 1892), from a surname, Hubrecht.] The typical

1892), from a surname, Hubrecht.] The typical genus of the family Hubrechtidæ.

Hubrechtidæ (hū-brek'ti-dē), n. pl. [NL., < Hubrechtia + -idæ.] A family of nemerteans, of the order Protonemertini. The lateral organs are spherical structures which lie deep within the body-wall and project into the lateral vessels; the brain and lateral nerve-cords lie beneath the reticular dermis; a dorsal vessel is present, and the excretory organs constitute a richly branched canal-system. The family contains only one genus, Hubrechtia.

genus, Hubrechtia.

huckleberry, n.—Bear-huckleberry. Same as *buckberry, 2.—Blue huckleberry, in general, same as blueberry(a); specifically. Vaccinium vacillans, also called low blueberry, a small stiff shrub of eastern North America bearing an abundance of blue-glaucous fruit of medium quality.—Box-huckleberry, Gaylussacia brachycera, a low stiff huckleberry, With some what the habit and foliage of box. It is found in dry woods from Pennsylvania to Virginia.—Dwarf or bush huckleberry, Gay-

Hulme porcelain. See American *porcelain. This plant, early described by Buckley, was lost sight of formany years. (b) Gaylusacia with the young parts and even the fruit hispid. Between the fruit hisp huckleberry-lily (huk'l-ber-i-lil'i), n. The

hucklebone, n. 3. pl. A game played with hucklebones. The Greeks used the astragalus

for the same purpose. huck-shouldered (huk'shōl'derd), a. Hump-

huddling-chamber (hud'ling-chām'ber), n.
A space in which a fluid gathers; specifically,
an annular space under the projecting collar
of a pop safety-valve, in which the steam collects as soon as the valve opens at all and, by thrusting on the ring, forces the valve open wider and holds it open until the pressure drops. See safety-valve. [Colloq.] hudge (huj), n. In mining, an iron or steel hoisting-bucket.

Hudson-Champlain trough. See *trough. Hudsonian zone. See life *zone. Hudson River shale. See *shale². huemul, n. Same as *guemul.

huf, v, n, and a. A simplified spelling of huff. Hüfner's apparatus. See *apparatus. hug, v. t—To hug the land (naut.), to keep in close touch with the shore; sail as close to the land as the depth of water and other features will allow—To hug the wind (naut.), to sail close to the wind; have the yards braced up and the ship steered as close to the wind as she will lie.

huila (hwē'lä), n. [Mex.] A stimulating liquor distilled from a species of the mescal

Other liquors distilled from various species of the Mescal Agave are known as "tequila," "huila" and "comiteco." Sci. Amer. Sup., Dec. 12, 1903, p. 23365.

huisache (hwē-sā'chā), n. In Texas, the opopanax, Acacia Farnesiana. This is a small thorny tree with pinnate leaves and small globose heads of flowers, with a rich fragrance of the violet type. It is widely diffused, either as native or introduced, in the warmer parts of the earth, and under the name cassic is extensively cultivated in the south of France for perfumery-making. Also juisache.

huiscoyol (hwēs-kō-yōl'), n. [Nahuatl huitzo, thorny, + coyolli, a nut-bearing palm.] A name applied in Mexico and some parts of parts of Central America to spiny palms of the genera Acrocomia, Astrocaryum, and Bactris; especially to Bactris acuminata, B. horrida, and Acrocomia aculeata. Also huiscoyul and biscoyol. See gru-gru, 2. hula-hula (hö'lä-hö'lä), n. [Hawaiian hula-hula hula-hula indexing siyaing otal A patiya

hula-nuis (no la-no la), n. [Hawaiian nuu-hula, music, dancing, singing, etc.] A native Hawaiian dance, accompanied by singing and drumming. Deniker, Races of Man, p. 208. hule (ö'lā), n. [Nahuatl ulli or olli, caoutchouc.] 1. Same as ule.—2. Any one of several species of Central American rubber-

producing trees of the genus Castilla, especially C. elastica.—3. A shrubby composite plant, Parthenium argentatum, which has a milky juice containing considerable caoutchouc. The latter is usually obtained by grinding up the plants and extracting with

chemicals.
hull¹, v. t. 3. To shell (oysters). [Southern

the horizon: said of a ship.—Hull up, said of a vessel when her entire hull appears above the horizon line.—To lie a hull (naut.), to be stripped down to bare poles; have no sail set.

hull-cytode (hul'sī'tod), n. A cytode or non-

nucleated cell with a cell-membrane. hull-efficiency (hul'e-fish'en-si), n. In naval arch., the ratio of the net work or horse-power required to drive a ship's hull at a given speed when towed without her propeller, to that required to drive the same vessel at the same speed through the water by means of her pro-

hull-strained (hul'strand), a. Showing weakness in timbers or planking after being sub-jected to rough handling as at sea in heavy weather: said of a wooden ship. An iron vessel is hull-strained when from any cause her framing or plating shows buckling or separation.

periods). The mammals are all, or nearly all, of still living species. The epithet human is not strictly applicable to this series, for it is quite certain that man coexisted with the fauna of the Pleistocene period.

humanism, n. 4. The body of opinions which characterized those scholars who, in the early

sixteenth century, decried the medieval thesixteenth century, decried the medieval the-ology and logic and sought inspiration from ancient Greek and Roman sources, and in par-ticular objected to the use in Latin, which was then the common language of philosophy and science, of any words not found in the writings of the early Latin writer Cicero.—5. Since 1903, the doctrine that there is no absolute being or absolute truth not relative to human Deing or absolute truth not relative to numan faculties and needs. The term was proposed by F. C. 8. Schiller to designate the general philosophical opinion of himself and Professor William James. These writers deny infinity of every kind; and it is likely that this denial will be considered as implied in the term. It is not logically implied in the above definition.

I propose to convert to the use of philosophic terminology a word which has long been famed in history and literature, and to denominate *Humanism* the attitude of thought which I know to be habitual in William James and in myself.

F. C. S. Schiller, Humanism, Pref., p. xvi.

Humaria (hū-mā'ri-ā), n. [NL. (Fuckel, 1869), (L. humus, soil.] A genus of discomycetous fungi, of the family Pezizaceæ, having sessile, variously colored ascomata and hyaline one-celled smooth or roughened spores. The name refers to the usual habitat of the plants, which is vectable mold. is vegetable mold.

Humata (hū-mā'tā), n. [NL. (Cavanilles, 1801), named from the village of Humatay (Sp. Humata), now called Umata, on the west coast of the island of Guam, where first colcoast of the island of Guam, where first collected.] A genus of polypodiaceous ferns of the tribe Davallieæ, widely distributed among the Malayan, Philippine, and various other Pacific islands. There are about 15 species, mainly epiphytic, with chaffy creeping rhizomes and thick coriaceous more or less dimorphous fronds, varying in form from simply lanceolate to pinnatifid and deltoid bipinatifid. The sort are terminal upon the veins near the margin, the roundish or reniform thick indusia being attached basally and thus free apically toward the margin, humect, v. II. intrans. In chem., to become moist by attracting vapor of water from the atmosphere; to deliquesce.

humectation, n. 3. Same as cdema, 1.
humeral. I. a.—Humeral gland. See *gland.
II. n. 3. The clavicle; a large bone of the shoulder-girdle of fishes. Not homologous with the bone called humeral by Agassiz, nor with that called humerus by Geoffroy or Owen or Erdl. Starks, Synonymy of the Fish Skeleton, p. 521.
humerofemoral (hū"me-rō-fem'ō-ral), a. Re-

humerus by Geoffroy or Owen or Erdl. Starks, Synonymy of the Fish Skeleton, p. 521.

humerofemoral (hū/me-rō-fem/ō-ral), a. Relating to both the humerus and the femur.—

Humerofemoral index, in anthrop., the length of the humerus expressed in percentages of the femur. Amer. Anthropologist, July-Sept., 1901, p. 572.

Humeroradial index. Same as radiohumeral kinder.

***** index.

humerus, n.—Perforated humerus, the condition of the humerus in which the olecranon fossa is perforated to form the entepicondylar foramen.

humidifier (hū-mid'i-fī-er), n. One who or that which humidifies or moistens; specifically, a mechanical device for moistening the atmosphere, as in a textile-factory, to keep it at a desired degree of relative humidity.

humidity, n.—Complement of the humidity, the difference between one hundred per cent and the actual percentage of relative humidity; the percentage by which the actual relative humidity falls short of complete saturation.—Humidity wind-ross. See *wind-ross. humidor (hū'mi-dôr), n. A box, often ornamental, in which eigars are kept moist or

prevented from becoming too dry.

humidostat (hū-mid'ō-stat), n. [L. humidus for umidus, moist, + Gr. στατός, < lστάναι, cause to stand.] A small chest or cabinet lined with sheet-metal and fitted with some device for holding a damp sponge or piece of felt: used

to keep cigars moist.

humification (hū-mi-fi-kā'shon), n. [L. humus, soil, + -ficatio(n)-, < facere, make.] The process by which humus is formed from vegetable matter in the soil or on top of the ground and then percolates into it by the action of rain-

humify¹ (hū'mi-fī), v. i.; pret. and pp. humified, ppr. humifying. [L. humus, soil, + -ficare, \(facere, \text{make.} \)] To become humus or soil.

From a chemical standpoint the soils of the two regions are similarly characterized: (1) By an exceptionally large amount of thoroughly humified organic matter. U.S. Dept. Agr., Bur. Plant Industry, 1901, Bulletin 3, p. 19.

humify2 (hū'mi-fi), v. t. Same as humefy. humilific (hū-mi-lit'ik), a. [L. humilis, humble, +-ficus, \(facere, make.) That humiliates or tends to humiliate; humiliating.

Rural life and city life, honorific employments and humilific employments.

E. A. Ross, in Amer. Jour. of Sociol., IX. 192.

humiriaceous (hū-mir-i-ā'shius), a. In bot., belonging to or resembling the Humiriaceæ. Humist (hū'mist), n. A follower or supporter of David Hume or of his philosophical doctrines. See Humian.

trines. See Humian.

humite, n. The relation in chemical composition of the species of the humite group is shown by the following formulæ, established by Penfield and Howe: chondrodite, Mga[Mg(F10H)]g[SiO4]2; humite, Mgs[Mg(F10H)]2; lin these formulas the magnesium atoms present are, respectively, 5, 7, and 9, and these numbers also express the ratio of the vertical crystallographic axes of the three species. The fourth possible compound, Mg[Mg(F10H)]s[SiO4]3. Is probably represented by the species prolective, which, though not yet analyzed, has been shown (Sjogren) to be crystallographically the first member of this series whose vertical axes are in ratio of 3:5:7:9. See *prolective.

hummer, n. 4. A calling device employed in telephony in place of the magnetic call-bell; a buzzer.

humming-bee (hum'ing-be), n. Same as bumblebee and humblebee. Kirby and Spence.

humming-bird, n.—Hermit humming-bird, any species of the genus Phaëthornis, rather dull-plumaged



Hermit Humming-bird (Phalthornis guyi).

birds with wedge-shaped tails.—Humming-birds' trumpet. Same as California *fuchsia.—King humming-bird, a humming-bird of the genus Topaza, which has the outer tail-feathers long and curved inward.—Saw-beaked humming-bird, any one of a group of humming-birds distinguished by having the edges of humming-birds distinguished by having the edges of humming-bird be upper mandible slightly notched.—Sword-billed humming-bird. Same as swordbill (which see).—Vervain humming-bird, one if the group.—White-crowned humming-bird, one of the few species of the genus Microhera, which have the top of the head pure white.

humming-stick (hum'ing-stik), n. Same as

hummock, n. 3. A low hill of sand on the

Compare dune1.

sea-shore. Compare dune.

hummocking (hum'ok-ing), n. The production of mounds and ridges of broken ice when two floes crowd upon each other.

humor. n.—Glacial humor, vitreous humor.—Hyahumor.—Scarpa's

humor. humor.—Scarpa's

two floes crowd upon each other.
humor, n.—Glacial humor, vitreous humor.—Hyaline humor. Same as glacial *humor.—Scarpa's humor, endolymph.
humor, v. t. 3. To give a slight direction or turn to (a fly, in fishing, or the like). N. E. D. hump, n. 2. A sailors' name for a worthless member of the crew; a green hand.—3. A long tramp with a load on the back. [Australia.] E. E. Morris, Austral English. hump, v. t.—To hump bluey. See *bluey.
Humpbacked sucker. See *sucker.
humphed (humft). a. Altered by contact with igneous rock: said of coal. Barrowman, Glossary. [Scotch.]

sary. [Scotch.]

hump-shouldered (hump'shol'derd), a. Hav-

ing high and humped shoulders.

humus, n.—Acid humus, See sour *humus.—Mild humus, humus in a condition favorable to forest growth.

—Sour humus, humus harmful to forest growth, owing to the presence of humic or similar acids, produced by decomposition under excess of moisture and leak of air. lack of air.

Hun. An abbreviation of Hungary. hunakai (hö-nä'kī), n. [Hawaiian, < huna, An abbreviation of Hungary.

very small or fine, + kai, the sea. The plant bears white flowers and grows on the seabeach, almost within reach of the surf.] A native name for a species of morning-glory, Ipomæa acetosæfolia, which creeps in the sand along the sea-beach. It is a native of the West Indies, Guiana, and Brazil.

Hunchakist (hun'cha-kist), n. and a. [< Armenian hunchagyan, < hunchag, a bell.] I. n. A member of one of the first Armenian patriotic

revolutionary societies which arose against the nouse, a dance-house in a mining-camp. [Western U. 8.] oppressive misrule of the tyrant Sultan Abd-ul-Hamid II. of Turkey. The society published a paper for its propaganda, called Hunchág, which had with the title the picture of a bell, symbolizing its mission to awaken the people.

II. a. Of or pertaining to the Hunchagyan society.

Hunchagyan of the Great Lakes.] A genus of the nautiloid cephalopods of the family Actinoceratidæ: known by its siphuncle, which is very wide and consists of ring-like segments inflated

man.

Hungry quartz. See *quartz.

Hunnemannia (hun-e-man'i-ä), n. [NL. (Sweet, 1828), named in honor of John Hunnemann, an English botanist.] A genus of plants of the family Papaveracez. It contains a single Mexican species, H. fumarizfolia, now somewhat cultivated under the name tulip-poppy. It is treated as a garden annual, being closely allied to the California poppy (Bschscholzia), from which it differs in having distinct sepals. The flowers are tulip-like, large, and yellow; the foliage is finely cut.

hunt. v. i. 4. In mech., to jump back and forth

yellow; the tollage is niely cut.

hunt, v. i.

4. In mech., to jump back and forth instead of remaining steady. Thus an engine governor is said to be 'hunting' when it goes too far in cutting off steam or putting it on, making the speed of the engine vary a little each way from the designed speed.—To hunt at the view, to pursue game by sight, as the greyhound.—To hunt riot, of foxhounds, to run a scent other than that of the fox.

greynound.—To nutr Hot, or foxnounds, to run a scent other than that of the fox.

hunt, n.1 7. In bell-ringing, a bell which is taken out of its order and then hunted by the others in the peal. See hunt, v. i., 3.—8. In elect., the see-sawing, surging of speed, or oscillating which sometimes occurs in synchronous motors or other electrical apparatus. Trans. Amer. Inst. Elect. Engin., 1901, p. 374. hunter, n. 5. A watch having a double case, that is, two single covers, one covering the works and the other the dial; a hunting-watch. Many antique watches were made with two distinct parts, the one an inner watch with a back of metal and a face of glass, and the other an outer case with only one metal back. In this manner the watch could be used as an open face, or else the dial or glass side of the watch could be reversed and thus protected by its hunting-case.

Hunter's moon. See *moon!

Hunter's moon. See *moon!.
hunting, n. 3. An arrangement in the number of teeth of gears in contact such that the same teeth come into touch with each other only after a number of revolutions. Taggart, Cotton Spinning, II. 5.

hunting-cat (hun'ting-kat), n. The chetah, Cynælurus jubatus, which is used for hunting deer and other game.

Huntingdon Connection. See *connection and

Huntingdonian. hunting-horse (hun'ting-hôrs), n. A horse

petition between shooters of game. Usually the several species of game killed are scored by a scale of points, and the match is won by the side scoring the highest number of points.

hunting-piece (hun'ting-pēs), n. A representation of a hunting scene.

Hunts. An abbreviation of Huntingdonshire. huntsman, n. 3. In Honduras, the foreman of a gang of slaves, whose duty it is to search the woods to find employment for his men.

hurdle, v. II. intrans. To jump over a hurdle, as in a hurdle-race; hence, to jump over anything as if it were a hurdle.

hurdler (her'dler), n. 1. One who hurdles, or runs a hurdle-race.—2. A hurdle-maker. T. Hardy.

hurdle-racer (her'dl-ra'ser), n. A horse that competes in hurdle-races.

It has been remarked that steeplechase horses are usually in the first place schooled over hurdles, and many animals remain hurdle-racers till the end. More speed

husker

is required for hurdles than for a steeplechase course, and there is more money to be won over hurdles than over "a country."

Encyc. Brit., XXIX. 333.

hurdle-screen (her'dl-skren), n. In mining, a curtain or brattice hung in a roadway to divert the air-current upward and so free a hole in the roof of gas. Barrowman, Glossary.

the root of gas. Burrowman, Glossary.

hurdy-gurdy, n. 1. In a five-stringed instrument the lowest open string is called the bourdon, that next above the mouche, and the highest the trompette, and the melody strings are called chanterelles.—Hurdy-gurdy-house, a dance-house in a mining-camp. [Western U. S.]

and consists of ring-like segments inflated directly behind the septa. It occurs in the

Hurricane distance. The following table shows the approximate distance that has been calculated for the center of the hurricane, according to the average fall of the barometer per hour. Although admittedly a rough calculation, it has been found to possess a certain value for the navigator.

Average fall of barometer per hour.	Distance in miles from storm-center.	
From 0.02 in. to 0.06 in.	From 250 to 150.	
" 0.06 " " 0.08 "	" 150 " 100.	
" 0.08 " " 0.12 "	" 100 " 80.	
# 010 # # 016 M	# 90 # E0	

Hurricane range. West India hurricanes, as a rule, range between the parallels of 10° and 50° N. and the meridians of 55° and 85° W.— Hurricane track. In the northern hemisphere a hurricane originating between the parallels of 10° and 18° N. advances in a northwesterly direction, and between the parallels of 25° and 30° N. curves to a northeasterly direction. In the southern hemisphere the cyclone has its origin in the equatorial regions and advances in a southwesterly direction. About the parallel of 25° S. it curves to a southeasterly direction.— Hurricane wind. See *wind2.—Paddy's hurricane. When there is no wind, so that the pennant hangs alongside the mast, it is said that a Paddy's hurricane is blowing, or that the wind is up and down the mast.

hurricane-beach (hur'i-kān-bēch), n. See the

At the windward corner of an atoll parallel lines of shingle beaches are usually found. As these beaches appear to be due each to a single storm they are termed hurricane-beaches, and they may be used to supply some approximation to a chronological system for measuring the rate of growth of coral formations.

Geog. Jour. (R. G. S.), XI. 674.

hurricane-bird (hur'i-kān-berd), n. The frigate-bird: so named from a popular belief that when it flies near the water a hurricane will follow. [Rare.]

hurricane-lamp (hur'i-kān-lamp), n. A tall glass chimney or shade placed over a lighted candle or lamp to protect it from the wind. hurry, n. 4. In phys., a proposed unit of acceleration; an acceleration of one foot per sec-

ond per second.

hurry-gum (hur'i-gum), n. In mining, dross or fine coal passed through a hurry. Barrowman,

Glossary. [Scotch.]
hurst-frame (herst'fram), n. The frame which
carries the bearings for the trunnions attached to the helve of a trip-hammer. Also spelled hirst-frame.

Hurter and Driffield's actinograph.

*actinograph.
husi (hö'sē), n.
Tagalog husi.] unsi (bö'sē), n. [Philippine Sp., also jusi; < Tagalog husi.] In the Philippine Islands, a thin fabric woven from the fibers of the Manila plantain, Musa textilis, and pineapple leaves, to which filaments of imported silk are sometimes added and sometimes a little cotton. It is woven principally in Iloilo and western Luzon: used for women's dresses and, to some extent, for men's shirts.

husk¹, n. 5. Corn-meal bran. [Southern U. S.]

—6. A cup-shaped form composed of short leaves, common in Greek, Roman, and Renaissance decoration, from which rinceaux and other motives usually start. There are about 84 of these starting-points. Arch. Pub. Soc. Dict.

husk³, n. 2. The verminous bronchitis of cattle, found particularly in calves, and caused by roundworms belonging to the species Metastrongylus micrurus.

husker, n. 2. Improved power-machines now separate the corn in the husk from the stalks and leaves, strip the husks from the unshelled cobs, clean and cut the stalks, leaves, and husks into convenient form for feed,

or for other purposes, and deliver the corn, by means of a conveyer, to a wagon, bin, or corn-sheller. See *corn-sheller.

huskie, n. See * husky³.
husky², a. 2. Rough and big; rough and energetic; burly: as, a husky fellow. [Slang,

II. n. A 'husky' fellow; an energetic man; a hustler. [Canadian Northwest.] husky', n. 2. An Eskimo.

Before leaving, arrangements were made for Eskimo (or Huskies, as I shall in future call them) to meet me at Churchill in the following spring.

Geog. Jour. (R. G. S.), XVI. 64.

Hyanictine (hī-ē-nik'tin), a. Pertaining to or typified by the genus Hyanictis: as, the hyanictine group of the Hyanidæ.

3. The Eskimo language.

hussakite (hö'sak-īt), n. [Named after E.

Hussak of the Geological Survey of Brazil.] Xenotime in prismatic crystals, first described from Brazil. It is a common microscopic con-

stituent of crystalline rocks elsewhere.

hustle, v. t. 2. To inveigle into dishonest
games. [Slang.]

hustler, n. 2. A strong, heavy turning-chisel.

hut¹, n. 4. The cottage of an Australian shepherd, sheep-shearer, or miner. E. E. Morris, Austral English.

Austral English.

hutch-cleading (huch'klē'ding), n. In mining, the bottom-, side-, and end-boards of a hutch or mine-car. Barrowman, Glossary.

Hutchinsonian² (huch-in-sō'ni-an), a. Relating to or discovered by Jonathan Hutchinson (born in 1828), an English surgeon: noting various diseases and symptoms of disease discovered or first described by him.

hutchinsonite (huch'in-son-it), n. [Named after Arthur Hutchinson, a demonstrator of mineralogy, Cambridge.] A rare sulpharsenite of thallium, lead, silver, and copper, occurring in orthorhombic crystals of prismatic habit and red to grayish-black color: found in the dolomite of the Binnenthal, Switzerland. Hutchinson pupil. See *pupil2. Hutchinson's teeth. See *tooth. hutch-road (hutch'rod), n. In mining, a mine road. Barrangen Glossey.

road. Barrowman, Glossary. hut-circle (hut'ser'kl), n. In archæol., a ring of stones or of earth left after the destruction

of a hut or tent and marking its circumference. hutia (hö'ti-ä), n. [NL. hutia, utia, < West Indian (Taino) huti, cuti, otherwise aguti: see agouti.] A name for the large rat-like rodents of the genus Capromys. The seven species are confined to the larger islands of the West Indies and are remarkable as being the only native land mammals save the curious Solenodon.

the curious Solenodon.

hut-keep (hut'kēp), v. i. To take care of an Australian station-hut or cottage. E. E. Morris, Austral English.

Huttonian character, the style of Arabic numerals in which they are all the same height, as 1234567890: first introduced by Dr. Charles Hutton in 1786.

Huttonianism (hu-tō'ni-an-izm), n. In geol., the views advocated by James Hutton (1726-1797) a Soctab geologist and his followers. the views advocated by James Hutton (1726–1797), a Scotch geologist, and his followers. They emphasized igneous phenomena, are collectively called Plutonism, and are contrasted with *Wernerianism or *Neptunism. hutu (hö'tö), n. Same as *futu.

Huxlejan (huks'lē-an), u. Of or pertaining to Thomas Henry Huxley, an English naturalist and comparative anatomist (1825–95).

Yet it is worth while, now and then, to take stock of ivances subsequent to, and largely consequent on, the uxleian declaration. Science, March 22, 1901, p. 453.

Huxley's layer or membrane. See *membrane. Huygens's construction, zone. See *con-struction, half-period *element.

Huzvarish, Huzvaresh (huz-vä'rish, -resh), n. [Middle Persian.] A name applied to the later form of Achæmenian dialect of the ancient Persian.

huzzard (huz'ārd), n. [Poss. a dial. form of uzzard for izzard.] A British anglers' name for an undetermined yellow fly used as bait. hy. In math., a prefix used as an abbreviation of hyperbolic as, hysin x for sinh x, etc.

hyacinth, n.—California hyacinth. Same as *Brodica: 2.—Hyacinth bacteriosis. See *bacteriosis of the hyacinth.—Oriental hyacinth, a variety of corundum.—Water-hyacinth. See *Piaropus.—Yellow disease of hyacinth. Same as *bacteriosis of the hyacinth.

of hyacinth. Same as *bacteriosis of the hyacinth.

Hyacinthia (hī-a-sin'thi-ā), n. pl. [Gr. Υα-κυθια, neut. pl. of Υακυθιας, < Υάκυθος, Ηγα-cinthus.] In Gr. antiq., a Spartan festival celebrated at Amyclæ, in Laconia, in honor of the hero Hyacinthus and of Apollo. It was probably held in the latter part of July. Its duration is not known.

duration is not known.

lular, ovoid or oblong, and hyaline spores.

hyacinth-stone (hī'ā-sinth-stōn), n.

1. The Hyalostelia (hī'ā-lō-stē'li-ä), n. [NL., < Gr.

sapphire.—2. A red or orange-red variety of zircon; also, as used by the jewelers, the orange-red or honey-red variety of hessonite

garnet.

Hymnanche (hī-ē-nang'kē), n. [NL. (Lambert, 1797), ⟨ ν̄αινα, hyena, + ἀγχειν, to strangle. The name alludes to the use of the fruit for poisoning hyenas.] A genus of plants belonging to the family Euphorbiaceæ. See Toxicodendron.

Hymnictis (hī-ē-nik'tis), n. [NL., ζ Gr. ναινα, a hyena, + ἰκτις, a ferret.] Agenus of hyenas (Hymnidæ) which shows, in the character of its teeth, a transition from the genus Palhyæna of the Lower Pliocene to the Euhyæna or living species of Hyæna. Its remains have been found in the Pliocene of Europe and India.

hya-hya (hī-ā-hī'ā), n. [Native name.] The name in British Guiana of the milk-tree, Tabernæmontana utilis. See milk-tree, 2, and Tabernæmontana.

Tabernæmontana.

Hyaline humor. Same as glacial *humor.

Hyalodidymæ (hī'a-lō-did'i-mē), n. pl. [NL., ⟨Gr. νάλος, glass, † δίδνμος, twin.] A name applied by Saccardo to artificial divisions of various families and orders of fungi, especially those of the Pyrenomycetes and Fungi

Hyalophragmis (hi'a-lō-frag'mi-ē), n. pl. [NL., ζ Gr. iaλος, glass, + φράγμα, partition.] A name applied by Saccardo to artificial divi-A name applied by Saccardo was almost all sions of various families and orders of fungi, especially those of the *Pyrenomycetes* and *Fungi Imperfecti*, to include the genera which have hyaline and 2- or more septate spores.

hyalopilitic (hī'a-lō-pi-lit'ik), a. [Gr. δαλος, glass, + πίλος, felt, + -ite² + -ic.] In petrog., noting the structure of some layas in which microscopic prisms are crowded in a glass matrix. Rosenbusch, 1887.

hyaloplasma (hī'a-lō-plaz'mä), n. [Gr. $\dot{\nu}a\lambda o\varsigma$, glass, $+\pi\lambda \dot{\alpha}\sigma\mu a$, anything formed.] Same as glass, $+\pi\lambda d$ *cytolymph.

companied by an exudation of a fibrinous material which undergoes hyaline degeneration, giving rise to the condition called *icing liver*, *icing heart*, etc., according to the membrane involved.

hyalosome (hī'a-lō-sōm), n. [Gr. $ia\lambda o_{\varsigma}$, glass, $+\sigma \bar{\omega} \mu a$, body.] In cytol, one of the nucleolus-like bodies which stain only faintly in nuclear or plasmic stains.

Hyalosporæ (hi-a-lō-spō'rē), n. pl. [NL., ⟨Gr. ν̄αλος, glass, + σπορά, seed (spore).] A name applied by Saccardo to artificial divisions of various families and orders of fungi, especially those of the Pyrenomycetes and Fungi Imperfecti, to include the genera which have unicellable and specific and provider the property of the provider the provider of the provide

ύαλος, glass, + στήλη, a pillar.] A genus of Paleozoic lyssacine hexactinellid sponges possessing regular hexactine and stellate skeletal elements with reduced vertical ray and with inflated nodes and root-tufts composed of long

hyalotype (hī'a-lō-tīp), n. [Gr. ὑαλος, glass, + τὑπος, type.] A positive photograph on glass copied from a negative; a photographic transparency. [Obsolete.]
hyawaballi (hī-ä-wä-bal'i), n. [Carib name.]

awaballi (hī-ä-wä-bal'i), n. [Carib name.] Guiana, same as zebra-wood, 1.

In Guiana, same as zebra-wood, 1. **Hybocrinus** (hī-bok'ri-nus), n. [Gr. $i\beta \delta c$, humped, $+\kappa \rho i\nu o\nu$, a lily (see crinoid).] A Silurian genus of the fistulate Crinoidea belonging to the family Hybocrinidæ. It is characterized by a large inferradial plate, a small superradial, and simple arms devoid of pinnulæ and composed of quadrangular joints. It occurs in the Lower Silurian. **Hybognathus** (hī-bog'na-thus), n. [NL., \langle Gr. $i\beta \delta c$, humped, $+\gamma \nu a \partial c$, jaw.] A genus of small minnows, abundant in the eastern United States, characterized by the elongate inter-

States, characterized by the elongate intestines and the herbivorous habit. H. nuchalis is the commonest of the numerous species.

Hybopsis (hi-bop'sis), n. [NL., \langle Gr. $i\beta o_{\zeta}$, blunt, $+ \delta \psi \iota_{\zeta}$, face.] A genus of minnows of the eastern United States, characterized especially by the processes of brokels at the correspondent. cially by the presence of barbels at the corner of the mouth. *H. kentuckiensis* is the commonest of the numerous species.

applied by Saccardo to artificial divisions of various families and orders of fungi, especially those of the Pyrenomycetes and Fungi Imperfecti, to include the genera which have hyaline and uniseptate spores.

hyalogen (hi'a-lō-jen), n. [Gr. νάλος, glass, + γ-νενής, -producing.] The name of a class of compounds which possibly belong to the albuminoids. Some members are found in edible bird's-nests, others in the vitreous humor from the eyes of oxen and pigs.

hyalographer (hi-a-log' ra-fer), n. [hyalog-raph-y+-erl.] An etcher on glass or other transparent substance.

Hyalonicte (hi'a-lō-mik'tō), n. [Gr. νάλος, glass, + μικτός, mixed.] Same as greisen.

Hyalonematidæ (hi'a-lō-nē-mat'i-dō), n. pl. [N.L., (Hyalonema(t-)+-idæ.] Same as Hyalonemidæ.

hyalophagia (hi'a-lō-fā'ji-ā), n. [Gr. νάλος, glass, + φαγείν, eat.] Glass-eating.

hyalophane (hi'a-lō-fā'n), n. [Gr. νάλος, glass, + φαγείν, eat.] Glass-eating.

hyalophane (hi'a-lō-fā'n), n. [Gr. νάλος, glass, + φαγείν, eat.] Glass-eating.

hyalophane (hi'a-lō-fā'm), n. [Gr. νάλος, glass, + φαγείν, eat.] Glass-eating.

hyalophane (hi'a-lō-fa'ji-ā), n. [Gr. νάλος, glass, + φαγείν, eat.] Glass-eating.

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hybridagam (hi'a-lō-fa'ji-hy), n. [Gr. νάλος, glass, + φαγείν, eat.] Glass-eating.

hybridogam (hi'a-lō-fa'ji-hy), n. [Gr. νάλος, glass, + φαγείν, eat.] Glass-eating.

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hybridogam (hi'a-lō-fa'gimi-b), n. pl. hybridog

hydantoic (hī-dan-tō'ik), a. [hydanto(in) + -ic.] Of or pertaining to hydantoin or hydantoic acid.— Hydantoic acid, a colorless compound, H₂NCONHCH₂COOH, prepared by boiling hydantoin or a mixture of glycerol and urea with barium-hydroxid solution. It crystallizes in monoclinic prisms and melts and decomposes at 163-156° C. Also called urea-methyl-car-herwise acid.

hydantoin (hī-dan'tō-in), n. [hyd(rogen)+(all)-antoin.] A colorless compound, CO \(\frac{\text{NH.CH}_2}{\text{NH.CO}} \)

formed by the action of alcoholic ammonia on bromacetyl urea, or by the action of concentrated hydriodic acid on allantoin. It crystallizes in needles and melts at 215° C. Also called

glass, + πραφρα, α...,
*cytolymph.

hyalose (hi'a-lōs), n. [hyal(in) + -ose.] A
sugar said to be formed by the hydrolysis of
hyalin. It is almost certainly identical with
glucose.

hyaloserositis (hi'a-lō-sē-rō-sī'tis), n. [Gr.
hyalose (hi'a-lōs), n. [hyal(in) + -ose.] A
significant (hī-das'pi-an), a. and n. [Of Hydaspes, a river of India, now Jhelum.] I. a.
In geol., designating the lowest stage of the
Dinarian or upper division of the Lower Tri
conic formation as classified by the Austrian assic formation as classified by the Austrian geologists. It lies beneath the Anisian and above the Jakutian stages.

II. n. The Hydaspian stage.

Hydatid fremitus. Same as hydatid thrill (which see, under thrill!)—Hydatid pregnancy. See *preg-

hydatogenic (hī'dā-tō-jen'ik), a. In petrog., relating to precipitation from aqueous solutions: a term applied by Renevier (1882) to rocks precipitated from water, as rock-salt, gypsum, etc. In connection with the deposition of ores it is used in contrast with *pneumatogenic.

hydatomorphic (hi'dā-tō-môr'fik), a. [Gr. iδωρ (iðar-), water, + μορφή, form, + -ic.] In geol., metamorphic processes involving solution in and crystallization from water.

hydatopneumatic (hī'dā-top-nū-mat'ik), a. [Gr. νόωρ (νόατ-), water, + πνευμα(τ-), wind, or air, + -ic.] In petrog., resulting from the action of gases and water: used in connection with the formation of ore deposits.

hydatopneumatolithic (hī'dā-top-nū'ma-tō-lith'ik), a. [Gr. $v\delta\omega\rho$ ($v\delta\sigma\tau$ -), water, $+\pi vev\mu a(\tau$ -), wind, or air, $+\lambda i\theta\sigma$, stone, +-ic.] Same as

*hydatopneumatic.

*hydatopneumatic.
hydatopyrogenic (hī'dā-tō-pī-rō-jen'ik), a.
[Gr. υδορ (υδατ-), water, + πυρ, fire, + -γενής,
-producing, + -ic.] Same as *aqueo-igneous.
Hydnaceæ (hid-nā'sē-ē), n. pl. [NL., < Hydnum + -aceæ.] A family of hymenomycetous fungi, named from the genus Hydnum, having the hymenium covering the surface of spines or teeth which are sometimes flattened or reduced to mere tubercles. See Hydnum and *Irpex.

hydnocarpic (hid no kär'pik), a. [Hydnocarpus + -ic.] Derived from Hydnocarpus Kurzii.—Hydnocarpic acid, an acid, $C_{16}H_{28}O_{2}$, found as a glyceride in the oll from the seeds of Hydnocarpus Kurzii, from India. It crystallizes in leaflets which melt at 59-60° C., and is a homologue of chaulmugric acid.

Hydnocarpus (hid -nō-kär' pus), n. [NL. (Gaertner, 1788), \langle Gr. $i\dot{v}\dot{v}vo$, truffle, $+ \kappa a\rho\pi\dot{v}\varsigma$, fruit. The name alludes to the superficial approximation of the first of Hydnocarpus area of the fruit of Hydnocarpus area and the superficial approximation.

fruit. The name alludes to the superficial appearance of the fruit of Hydnocarpus venenata.] A genus of plants of the family Flacourtiaceæ. They are trees with alternate, pinnately veined, shortstalked, toothed or entire leaves, diceious flowers in small axiliary racemes, and berry-like capsules with woody walls. There are about 23 species, native from eastern India to Sunatra and Java. The seeds of H. anthelmintica are used in China as a remedy for leprosy and skin-diseases; those of H. venenata, the Ceylon fish-poison, for similar purposes and as a source of lamp-oil. See Ceylon *fish-poison.

Hydnoceras (hid-nos'e-ras), n. [Gr. ῦδνον, a tuber, prob. a truffle, + κέρας, a horn.] A genus of lyssacine hexactinellid sponges belonging to the family Dictyospongide and originally de-

pictyospongidæ and originally described by Conrad as a cephalopod. It is characterized by an obconical shape with eight prism faces and prominent tutted nodes arranged in horizontal and vertical rows. It was very abundant in the Upper Devonian, frequently growing in extensive plantations.

Hydnora (hid-no rä, n. [NL. (Thunberg, 1775), named because mung group. of the resemblance of the flower to a fungus of the genus Hydnum, the original species of Hydnora, H. Africana, having, on the inner surface of the perianth lobes, soft spines similar to those of the hymenium of Hydnum.] A genus of plants, typical of the family Hydnoraceæ. They are leafless parasites which grow on the roots of trees and shrub. The large tubular flowers are borne singly on root-like, subterranean, branching axes. There are about 8 species, natives of Africa, Madagascar, and the island of Bourbon. H. Africana is known as jackalkost (which see).

Hydnoraceæ (hid-nō-rā'sē-ē), n. pl. [NL., (Solms-Laubach, 1874), < Hydnora + -aceæ.] À small anomalous family of dicotyledonous A small anomalous family of dicotyledonous archichlamydeous plants of the order Aristolochiales, allied to the Rafflesiaceæ and formerly included in it, and typified by the genus *Hydnora (which see for principal characters). There is only one other small genus, almitve of Argentina, Hydnora being chiefly South African. They are thick, succulent, leafless root-parasites of strange aspect.

hydracetin (hī-dras'ē-tin), n. [hydr(ogen) + acetin.] Same as purodin.

acetin.] Same as pyrodin. hydradenitis (hi"dra-de-ni'tis), n. [Gr. $\dot{v}d\omega\rho$ ($\dot{v}d\rho$ -), water, + $\dot{a}\dot{o}\dot{\tau}\dot{v}$, a gland, + -itis.] 1. Inflammation of a lymph-gland.—2. Same as hydroadenitis.

hydroadenitis.
hydradenoma (hi'dra-de-nō'mä), n.; pl. hydra-denomata (-ma-tä). [NL., < Gr. νδωρ (νδρ-), water, + ἀδην, a gland, + -oma.] A tumor due to hypertrophy of the sweat-glands.
hydradephagan (hī-dra-def'a-gan), n. One of the Hydradephaga.

hydramide (bī-dram'id), n. [hydr(ogen) amide.] The name of a class of crystalline compounds, N_2R_3 (where R is any alkyl radical), formed by the action of ammonia on aldehydes, chiefly those of the aromatic series

hydramine (hi-dram'in), n. [hydr(ogen) + amine.] The name of a class of liquid, strongly alkaline compounds, such as ethylene hydra-

hydramnion (hi-dram'ni-on), n. [NL.] Same

hydrangin (hi-dran'jin), n. [hydrang(ea) + -in².] A colorless crystalline glucoside, C₃₄

H₂₅O₁₁(†), found in the root of Hydrangea ar-

borescens. It melts at 228° C.

hydrant-cock (hi'drant-kok), n. A hydrantvalve; a valve fitted with a waste-pipe and
used to control the supply of a fire-hydrant.

When closed it shuts off the supply and opens a wastepound, NC.C(NH2)NHNHC(NH2)CN, formed
pound, NC.C(NH2)NHNHC(NH2)CN, formed used to control the supply of a fire-hydrant. When closed it aliuts off the supply and opens a wastepipe to release the water standing in the hydrant above the valve. When opened it closes the water-pipe.

hydrant-valve (hi'drant-valv), n. A special

long-stemmed valve used to connect a hydrant with a water-main.

hydrarenite (hī-drar'ē-nīt), n. [Gr. υδωρ (υδρ-), water, + L. arena, sand, + -ite².] Any sedimentary hydroclastic rock of somewhat fine or medium grain; a sandrock; a granular sedi-

action of sodiam amalgam on esculin.

hydrargillutite (hī-drār-jil'ū-tīt), n. [Gr. ὐδωρ (μδρ-), water, + ἀργιλλος, clay, + L. lutum, mud, water, + ἰατρικός, curative.] Relating to the extremely fine grain, whose chief constituent is clay; an argillaceous shale.

hydrargyrosis (hī-drār-ii-rō/sio) action of sodiam amalgam on esculin.

hydriatric (hī-dri-at'rik), a. [Gr. ὑδωρ (ψδρ-), water, + ἰατρικός, curative.] Relating to the water-cure or hydrotherapeutics.

hydriatrics (hī-dri-at'riks), n. Same as hydrotherapeutics.

hydrargyrosis (hī-drār-ii-rō/sio) action of sodiam amalgam on esculin.

hydriatric (hī-dri-at'rik), a. [Gr. ὑδωρ (ψδρ-), water, + ἰατρικός, curative.] Relating to the water-cure or hydrotherapeutics.

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is clay; an argillaceous shale.

hydrargyrosis (hī-drār-ji-rō'sis), n. [NL., < hydrargyrum + -osis.] Same as hydrargyriasis.
hydrargyrous (hī-drār'ji-rus), a. Containing mercury; mercurial. [Rare.]

Hydrargyrum ammoniatum, white precipitate; ammoniated mercury.—Hydrargyri chloridum corrosivum, corrosivus sublinate; bichlorid of mercury.—Hydrargyri oxidum rubrum, red precipitate.—Hydrargyri sulphidum nigrum, sthlops mineral.—Hydrargyri sulphidum rubrum, cinnabar.—Hydrargyri sulphidum rubrum, cinnabar.—Hydrargyrum cum creta, gray powder.

hydrarthros (hī-drär'thros), n. Same as hy-

hydrastinic (hī-dras-tin'ik), a. [hydrastin(ine) + ic.] Pertaining to hydrastinine.—Hydrastinic acid, a colorless compound,

CH₂ $\langle \stackrel{...}{O} \rangle$ C₆H₂ $\langle \stackrel{...}{CONH_2CH_3} \rangle$

prepared by the oxidation of hydrastinine. It forms broad needles which melt at 164 °C.

hydrastinine (hī-dras'ti-nin), n. [hydrastine + -ine².] A colorless crystalline compound,

CH₂ < O > C₆H₂ < CHO
CH₂CH₂NHCH₃'
formed by the oxidation of hydrastine. It melts at 116-117° C.

hydrastinum (hī-dras'ti-num) at [NII] Constitution of hydrastine of hydrastinum (hī-dras'ti-num) at [NII] Constitution of hydrastinum (hī-dras'ti-num) at [NI

hydrastinum (hī-dras'ti-num), n. [NL.] Same as hydrastine.

as nyarasine.

hydrastonic (hī-dras-ton'ik), a. [hydrast(ine) + -one + -ic.] Noting a colorless acid, $CH_2 \stackrel{4.5}{\circlearrowleft} C_0 + C_0 + CH_2 \stackrel{1}{\circlearrowleft} CH_2 + COC_0 + COC_0$

COOH, prepared by the action of potassium hydroxid on hydrastine methiodide. It crys-

tallizes in plates. **hydrate**, v. t.—**Hydrated soap**. Same as filled $\star soap$. hydration, n.— water of hydration, water chemically combined, as distinguished from hygroscopic mois-

hydratropic (hī-dra-trop'ik), a. [Gr. $\dot{v}\delta\omega\rho$ ($\dot{v}\delta\rho$ -), water, + atropic.] Noting a colorless acid, CH₃ CH(C₆H₅).COOH, formed by the reduction of atropic acid. It boils at 264–265° C. Also called a-phenylpropionic acid.

Hydraulic foot-bond. See *foot-bond.—Hydraulic giant, in mining, a large stream of water under a high head, used for washing down a bank containing minerals. See cut under hydraulic mining.—Hydraulic gradient, lift, limestone, mining-cartridge. See *gradient, kijtz,*kimestone, *cartridge.—Hydraulic-recoil carriage. See *carriage.

hydraulic (hī-drâ'lik), v. t. In mining, to work

by the hydraulic-mining process.

hydrazobenzene (hī'dra-zō-ben'zēn), n. [hydrogen) + azo- + benzene.] A colorless crystalline compound, C₆H₅NH.NHC₆H₅, prepared by the action of zinc dust and alcoholic potassium hydroxid on azobenzene or nitrobenzene. It melts at 126° C. and is readily converted into aniline or into benzidine.

hydrazoic (hī-dra-zō'ik), a. [hydr(ogen) + azo-+ -ic.] Noting an acid, a colorless, very poi-+-ic.] Noting an acid, a colorless, very poisonous liquid, N₃H, prepared from nitrous oxid and sodium amide or from hydrazine sulphate and nitrous acid. It has a penetrating, unbearable odor, closely resembles hydrochloric acid in general properties, and its metallic salts resemble the chlorids, with the exception that they dissolve in concentrated mineral acids and all explode with extreme violence when heated. The acid, both in the liquid state and in solution, is one of the most highly explosive substances known. It boils at 37°C. Also called azo-imide and hydronitric acid.

alkaline compounds, such as ethylene nydramine (HOCH₂CH₂NH₂), formed by the action of ammonia on alkaline oxids. Also called hydroxylalkyl bases.

hydramnion (hi-dram'ni-on), n. [NL.] Same

k'C: N.NHR, formed by the action of a hydroxylalkyl bases.

k'C: N.NHR, formed by the action of a hydroxylalkyl bases. group, water being eliminated. The hydrazines

and substituted hydrazines are generally formed with ease and crystallize readily, consequently they are widely used for the identification and separation of aldehydes and ke-

by mixing dry cyanogen with dry ammonia. It crystallizes in plates, with a luster resembling pitch, and decomposes, without melting, when heated

hydrencephalic (hī-dren-se-fal'ik). a. Relating to or dependent upon a hydrencephalon.

hydresculin (hī-dres'kū-lin), n. [hydr(ogen)

+ esculin.] A compound obtained by the + esculin.] A compound obtained action of sodium amalgam on esculin.

therapeutics.

hydriatrist (hī-dri-at'rist), n. [hydriatr-ic + -ist.] One who treats disease by means of hydrotherapeutics.

hydriatry (hī'dri-at-ri), n. [Gr. ἐδωρ (ἐδρ-), water, + ἰατρεία, medical treatment.] Same as hydrotherapeutics.

hydrics (hī'driks), n. [Gr. $t\delta\omega\rho$ ($t\delta\rho$ -), water, + -ics.] That branch of physics which deals with the properties of water.

with the properties of water.

hydrid¹, n.— Nitrogen hydrid, an improperly formed name which has been applied to hydrazoic acid or azo-imide.—Palladium hydrid, the remarkable product obtained by heating metallic palladium in hydragen gas or bringing the metal in contact with nascent hydrogen. Palladium absorbs several hundred times its own volume of hydrogen, the gas being expelled again on ignition. In this product the existence of a definite compound, Pd4 H2, has been assumed, but it is more probable that the hydrogen is physically occluded in or dissolved by the metal, which undergoes notable expansion in absorbing it.

hydrin. In chem., this termination indicates a compound formed by replacing with a halo-

a compound formed by replacing with a halogen atom or the cyanogen group one or more hydroxyl groups in a compound containing several of the latter.

hydrindene (hī-drin'dēn), n. [hydr(ogen) +

indene.] A colorless oil, $C_6H_4\langle \overset{\overset{\circ}{CH_2}}{CH_2}\rangle CH_2$,

formed by the reduction of indene. It boils at

hydriodide (hī'dri-ō-did,-dīd), n. Asalt of hydrihydriodide (hi'dri-o-did, did), n. A sait of hydriodic acid. The term is sometimes applied, also, to substances, other than saits, formed by the addition of hydriodic acid to compounds.—Tricthylamine hydriodide, a colorless compound, N(C₂H₅)₃HI, formed by triethylamine and hydriodic acid, or from diethylamine and iodide of ethyl. It resembles ammonium iodide in its general properties. Also called triethylammonium iodide. hydroacridine (hī-drō-ak'ri-din), n. [hydro-(gen) + acridine.] A colorless compound,

 $C_6H_8\langle \stackrel{?}{C}_H \rangle C_6H_8$, formed by the action of

hydriodic acid and phosphorus on acridine. It crystallizes in leaves or long plates, melts at 48° C., and boils at 320° C. Also called octohudroacridine.

nydroderune. hydroalcoholic (hī'drō-al-kō-hol'ik), a. [Gr. $b\delta\omega\rho$ ($b\delta\rho$ -), water, + E. alcohol + -ic.] Consisting of water and alcohol: applied to solutions in this medium.

hydroanicon (https://dro.anistoin.com/hydroanicon (https://dro.anistoin.com/hydro-anistoi

prepared by the reduction of anisc aldehyde with sodium amalgam. It crystallizes in very thin rhombic plates and melts at 172° C. hydroanthracene (hī-drō-an'thra-sēn), n. [hydro(gen) + anthracene.] A colorless compound, $C_{6}H_{4} < \frac{CH_{2}}{CH_{2}} > C_{6}H_{4}$, formed by the reduction of anthracene by hydriodic acid and duction of anthracene by hydriodic acid and

phosphorus, or by sodium amalgam. It crystallizes in large monoclinic plates, melts at 108.5° C., boils at 313° C., and sublimes in needles. Also called dihydroanthracene.

hydroarion (hī-drō-ā'rī-on), n.; pl. hydroaria (-a). [Gr. iδωρ (iδρ-), water, + ψάριον, a little egg, used for NL. ovarium, ovary.] Watery evst of the ovary.

hydro-aromatic (hi'drō-ar-ō-mat'ik), a. [hydro(gen) + aromatic.] Noting certain organic compounds which contain reduced aromatic nuclei, that is, benzene or condensed benzene nuclei to which hydrogen has been added.

hydrobenzoic (hī'drō-ben-zō'ik), a. [hydro-(gen) + benzoic.] Derived from hydrogen and benzoic acid: descriptive of a class of com-

pounds formed by the addition of varying amounts of hydrogen to benzoic acid. One of the best-known of these is Δ^2 -tetrahydrobenzoic acid or benzoic acid, $\mathrm{CH_2} \subset \mathrm{CH_2} \subset \mathrm{H_2} \subset \mathrm{H$

hydrobenzoin (hī-drō-ben'zō-in), n. [hydro-(gen) + benzoin.] A colorless compound, C₆H₅CHOH.CHOHC₆H₅, prepared by the re-duction of benzaldehyde. It crystallizes in lustrous leaves or monoclinic plates, melts at 134° C., and boils above 300° C.

hydroberberine (hī-drō-ber'be-rin), n. [hydro(gen) + berberine.] A colorless compound,

$$ro(gen) + berberine.$$
] A colorless compound,
$$(CH_3^2O)_2C_6H_2 < \stackrel{\circ}{C}H_2.CH \longrightarrow C_6H_2$$

$$< \stackrel{\circ}{O} > CH_2, \text{ formed by the reduction of}$$

berberine, into which it is readily converted by oxidizing agents. It crystallizes in dia-mond lustrous grains, in long, flat monoclinic needles, or in octahedra, and melts at 167° C.

needles, or in octaneura, and metts at 101° C. Hydrobia (hī-drō'bi-ā), n. [NL. (Hartmann, 1821), \langle Gr. $\dot{v}\delta\omega\rho$ ($\dot{v}\delta\rho$ -), water, $+\beta i\sigma\varsigma$, life.] The typical genus of the family Hydrobiidæ. Hydrobiidæ (hī-drō-bī'i-dē), n. pl. [Hydrobia +-idæ.] A family of tænioglossate gastropods, having the operculigerous lobe without fila-

ments and the shell small and acuminate. It includes the following genera, found in brack-ish or fresh water: Hydrobia, Bithynia, Lithoglyphus, Pomatiopsis, Bithynella, and Assi-

hydrobilirubin (hī"dro-bil-i-rö'bin), n.

product and occurs neither in the urine nor in the feces.

hydroblepharon (hī-drō-blef'a-ron), n. [Gr. νόωρ (νόρ-), water, + βλέφαρον, eyelid.] Edematous swelling of the eyelid.

Hydrobromic ether. See *ether¹.

hydrobromide (hī-drō-brō'mid), n. [hydrobrom-ic + -ide¹.] The class name of the salts of organic bases with hydrobromic acid. The term is sometimes applied to compounds, other than salts, which are formed by the direct addition of hydrobromic acid to some substance.

hydroalcinudita (hī/drō-kal si wā/dāt) a fG-

bromic acid to some substance.

hydrocalcirudite (hī'drō-kal-si-rö'dīt), n. [Gr. $\dot{v}\delta\omega\rho$ ($\dot{v}\delta\rho$ -), water, + L. calx (calc-), lime, + rudes, rubbish, + -ite².] A coarse hydroclastic rock made up in large part of limestone pebbles; a limestone conglomerate.

hydrocampid (hī-drō-kam'pid), n. and a. I. n. A member of the lepidopterous family

Hydrocampidæ.

II. a. Of or belonging to the family Hydro-

II, a. campidæ.

campidæ.

Hydrocarbon gas. See *gas.
hydrocarbonate, n. 2. In modern chem. and mineral., an acid carbonate or carbonate of hydrogen and a metal: as, hydrocarbonate of magnesia (magnesium acid carbonate), H₂Mg (CO₃)₂; also, but improperly, applied to a compound of a metal with hydroxyl and the radical of carbonate of the state of acid as hydroxyl and the

compound of a metal with hydroxyl and the radical of carbonic acid: as, hydrocarbonate of copper (of the mineral malachite) equals copper hydroxycarbonate, Cu_2 .(HO)₂. CO_3 .

hydrocarbostyril (hi"drō-kär-bō-sti'ril), n. [hydro(gen) + carbo(n) + styr(ax) + -il.] A colorless compound, $\operatorname{C}_6\operatorname{H}_4$ $\left\langle \operatorname{CH}_2.\operatorname{CH}_2 \right\rangle$, pre-

pared by melting hydrocarbostyril- β -carboxylic acid. It crystallizes in large lustrous prisms and melts at 163° C.

and melts at 163° C.

hydrocarotin (hī-drō-kar'ō-tin), n. [hydro-(gen) + L. carota, carrot, +-in².] A colorless compound, C₁₈H₃₀O(†), formed in small quantity in carrots. It closely resembles cholesterol, crystallizes in monoclinic plates, and melts at 137.4° C. Also spelled hydrocarrotin.

hydrocaulus, n. 2. The atheciferous stem of the hydroid corals: sometimes applied to the filiform process by which the sigule of the

the hydroid corals: sometimes applied to the filiform process by which the sicula of the graptolite is suspended.

Hydrocele agar. See *agar².

Hydrocephalic cry. See *cry.

hydrocephalis (hī drō-sef'a-lis), n. [NL., ζ Gr. νόωρ (νόρ-), water, + κεφαλή, head.] In hydroid polyps, the oral and stomachal regions, considered together. Compare *hydrocope.

cephalus.

hydroceramic (hī'drō-se-ram'ik), a. iyaroceramic (m² or - se - ram is), a. [Gr. $v\delta\omega\rho$ ($v\delta\rho$ -), water, + κεραμκός, of pottery: see ceramic.] Of the nature of, or consisting of, clay which remains porous after baking. Unglazed vessels of this material are used to

cool liquids by evaporation.

hydrocharidaceous (hi'drō-kar-i-dā'shius), a.

Belonging to or having the characters of the plant family Hydrocharidacex.

hydrocharidian (hī'drō-ka-rid'i-an), a. [Hydrocharis (-id-) + -an.] In phytogeog., having the ecological character of Hydrocharis, that is, swimming free in water, either submerged or more or less emerging, whether small like Lemna or larger like Stratiotes. See quotation under *limnean

hydrochlorid (hī-drō-klō'rid), n. [hydrochloric + -id¹.] The class name of salts of organic bases with hydrochloric acid. It is occasionally applied to compounds, other than salts, formed by the direct addition of hydrochloric acid to a substance.

hydrochore (hī'drō-kōr), n. [Gr. $i \delta \omega \rho$ ($i \delta \rho$ -), water, $+ \chi \omega \rho \epsilon i \nu$, spread abroad.] In phytogeog., a plant distributed exclusively by water, as by ocean currents, streams, etc. F. E. Clements.

+ -ous.] Having the character of, or pertaining to, hydrochores. F. E. Clements. hydrochorous (hī-drō-kō'rus), a.

dro(gen) + bilirubin.] A reddish-brown powdery compound, $C_{32}H_{40}O_7N_4$, found in the gen) + cinnamic.] Derived from hydrogen and cinnamic acid.—Hydrocinnamic acid. a color-by the activity of bacteria in the intestinal canal. According to others, and notably Garrod, it is a laboratory product and occurs neither in the urine nor in the feces. hydroblepharon (hī-drō-blef'a-ron), n. [Gr. 1000 to the product of the eyelid.] Edematory for the constant of the eyelid.] Edematory for the constant of the eyelid.] Edematory for the eyelid.

hydroclastic (hi-drō-klas'tik), a. and n. [Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), water, $+\kappa\lambda a\sigma\tau\delta$, broken, +-ic.] I. a. In petrog., noting clastic rocks formed by the action of water.

II. n. A fragmental rock produced by the

action of water.

Hydrocleys (hī-drok'lē-is), n. [NL. (Richard, 1815), irreg. \(\text{Gr. \$\bar{v}\ d\omega} \) (\bar{v}\ d\omega \), water, \(+ \kar{k}\ k\ d\ c\ g\), irreg. \(\text{Gr. \$\bar{v}\ d\omega} \) (\bar{v}\ d\ o\ p\), water, \(+ \kar{k}\ k\ d\ c\ g\), irreg. \(\text{Gr. \$\bar{v}\ d\omega} \) (\bar{v}\ d\ p\), water, \(+ \kar{k}\ k\ d\ c\ g\), wheel.] A velociped anapted for propulsion on the surface of the water. \(N. E. D. \)

Hydrocyst, \(n. \)

A genus of \(\text{waterways} \) by the plant. \(\text{hydrocyst, } n. \)

Hydrodamalidæ (\text{hi'} d\ r\ o\ d\ a\ -id\ e\ .) \(\text{hydrodamalidæ} \), \(n. \ pl. \)

[NI. Hudrodamalis, type genus, \(+ \ -id\ e\ .) \) A velocipede anapted for propulsion on the surface of the water. \(N. E. D. \)

Hydrocyst, \(n. \)

Hydrodamalidæ (\text{hi'} d\ r\ o\ d\ a\ -id\ e\ .) \(\text{hydrodamalidæ} \)

Hydrodamalidæ (\text{hi'} d\ r\ o\ d\ a\ -id\ e\ .) \(\text{hydrodamalis} \)

the obstruction A genus of the family Butoma-ccæ. H. nymphoides, the only species, is an aquatic plant of tropical America, often cultivated in tanks and ponds under the name Limnocharis Humboldti. It has ovate, cordate, entire floating leaves, similar



hydroclistogamy (hī "drō-klīs-tog 'a-mi), n. [Gr. $\dot{v}\delta\omega\rho$ ($\dot{v}\delta\rho$ -), water, + E. clistogamy.] That type of pseudoclistogamy in which flowers remain closed under adverse conditions of moisture. Pound and Clements, Plant Life of

hydrocæl, n. See *hydrocæle.

hydrocæle (hi'dro-sēl), n. [Gr. ιδωρ (ιδρ-), water, + κοίλος, hollow.] In embryol., the portion of the left enterocælic sac which in water, $+ \kappa \delta i \lambda \delta c_{\beta}$, hollow.] In embryol. the mik), a. A name given by Slavianoff to a portion of the left enterocœlic sac which in method of electric welding devised by him. echinoderms gives rise to the radial vessels hydro-extractor ($\hbar i'dr\bar{c}$ -eks-trak'tor), n. 1. and the ring-vessel of the ambulacral system. A centrifugal machine, specifically one used

He [Bury] describes the origin of the ampulla of the stonacanal from the anterior colomic cavity of the left side, and the growth of the left posterior segment of the colom so as to completely encircle the hydrocale or radiment of water-vascular system.

Philos. Trans. Roy. Soc. (London), 1903, ser. B, p. 288.
hydrocollidine (hī-drō-kol'i-din), n. [hydro-(gen) + Gr. κόλλα, glue, + -idl + -ine².] A colorless oily ptomaine, C₈H₁₃N, formed by the distillation of nicotine with selenium and by the putrefaction of flesh. It has a penetrating aromatic odor and boils at 205° C.
hydrocope (hī'drō-kōn). n. [Gr. νόλω (νόρ-).

traing aromatic odor and boils at 205° C. hydrocope (hī'drō-kōp), n. [Gr. $\dot{v}\delta\omega\rho$ ($\dot{v}\delta\rho$ -), water, $+\kappa \dot{\omega}\pi\eta$, handle.] The peduncle of a hydroid polyp, as distinguished from the *hydrocophalis (which see). hydrocorddine (hī-drō-kor'i-din), n. [hydro-(gen) + Gr. $\kappa \dot{\nu}\rho \dot{\nu}$ c, a bug, +-id +-ine².] A crystalline ptomaine, $C_{10}H_{17}N$, obtained from the cultures of certain kinds of bacteria on persone agar. peptone agar.

hydrocorisan (hi-dro-kor'i-san), a. and n. [Hydrocorisæ + -an.] I. a. Of or belonging to the heteropterous series Hydrocorisæ.

II. n. A member of the series Hydrocorisæ. hydrocotoin (hī-drō-kō'tō-in), n. [hydro-(gen) + Coto + $-in^2$.] A pale-yellow compound, HOC₆H₂(OCH₃)₂COC₆H₅, found in Coto bark, It crystallizes in large prisms or long thin needles, and melts at 98°C. Also called benzoylphloroglucinol dimethyl ether, benzocotoin, or preferably trihydroxydiphenylketons

hydrocoumarin (hī-drō-kö'ma-rin), n. [hydro- $(gen) + coumar-ic + -in^2$.] A colorless compound, $C_6H_4\langle {}_{O,CO}^{CH_2} \rangle CH_2$, formed by the dis-

tillation of orthohydrocoumaric acid. It crystallizes in plates, melts at 25° C., boils at 272° C., and has an odor of coumarin. Also called orthophenolpropylic anhydrid or melilotic anhydrid.

hydrocroconic (hi*dro-kro-kon'ik), a. [hydro-(gen) + croconic.] Noting an acid, s yellowish-brown compound, OC:CHCH(COOH),2(t),

formed by the reduction of croconic acid with hydriodic acid. Most of its salts are red. hydrocurcumin (hī-drō-ker'kū-min), n. [hydro(gen) + curcumin.] A brownish-white powder, $C_{14}H_{16}O_4$, obtained by the action of sodium amalgam on curcumin. It melts at about 1008 C

sodium amalgam on curcumin. It melts at hydrocinnamide (hi-drō-sin'a-mid), n. [hydrocyanate (hi-drō-sin'a-mid), n. [hydrocyanate) + cinnam(on) + -ide^1.] A colorless hydrocyanate (hi-drō-si'a-nāt), n. [hydrocyanaton of ammonia on cinnamon-oil. It crystallizes in needles melting at 106° C. hydrocladium (hī-drō-klā'di-um), n.; pl. hydrocladiu (-\frac{a}{2}). [NL., \langle Gr. $\delta d\omega \rho$ ($\delta d\omega \rho$), water, + $\kappa \lambda d\omega \rho$, branch.] One of the hydrothecabearing branches or ramuli of the comosarc of Plumularidæ.

Sodium amalgam on curcumin. It melts at about 100° C. hydrocyanate (hi-drō-si'a-nāt), n. [hydrocyanate (hi-drō-si'a-nāt), n. [hydrocyanide. Hydrocyanide.]

Hydrocyanate (hi-drō-si'a-nāt), n. [hydrocyanide.]

Hydrocyanate (hi-drō-si'a-nāt), n. [hydrocyanide.]

Hydrocyanide.

Hydrocy an-ic + -atc1.] A disallowed synonym of hydrocyanide.

Hydrocyanic acid. This compound has recently been prepared by passing an electric discharge through a mixture of carbon monoxid, nitrogen, and hydrogen. Such gaseous mixtures are manufactured on a large scale under the name of generator gas. Gaseous hydrocyanic acid is used to an increasing extent as an insecticide. It is specially employed for the funigation of citrus and appletrees as a specific against the San José scale (which see).—Hydrocyanic ether. See **ether1.

hydrocyanuric (hi-drossia-nü'rik) a Noting

hydrocyanuric (hī-drō-sī-a-nū'rik), a. Noting an acid, C₃H₃N₃O₃, which results from heating biuret, ammonia being liberated at the same time.

Watery had been supported by the support of the sup member is the northern sea-cow or Rhytina. By the rule of priority this name takes the place

the rule of priority this name takes the place of Rhytinida. Palmer, 1895.

Hydrodamalis (hī-drō-dam'a-lis), n. [NL., ⟨Gr. νόωρ (νόρ-), water, + δάμαλις, a young cow.] The earliest generic name of the arctic sea-cow, Rhytina. Retzius, 1794.

hydrodiffusion (hī'drō-dī-fū'zhon), n. [Gr. νόωρ (νόρ-), water, + E. diffusion.] The intermingling of fluids.

hydro-economics (hī'drō-ē-kō-nom'iks), n. The economics of waters, water-rights, and the uses of waters, particularly in their industrial and sanitary relations. Science, April 21, 1905, p. 618. 21, 1905, p. 618.

hydro-electric, a. 2. Of or pertaining to the generation of electric currents by means of water-power.—Hydro-electric bath. See *bath1.

hydro-electricity (hī drō -ē -lek - tris'i-ti), n. Electricity generated by means of water-power or steam.

hydro-electrothermic (hī'drō-ē-lek-trō-ther'-

by dyers, bleachers, and securers to extract hydrogenase (hī'drō-je-nās), n. [hydrogen + water from textile material. The wet material is placed in a perforated drum or basket and revolved at a speed of from 500 to 1,000 or more revolutions per minute, thus causing the water to be expelled through the perforations by centrifugal force.

2. In tanning, a wringer for removing water from skins. Modern Amer. Tanning, p. 36.

hydroferricyanate (hi'drō-fer-i-si's-nāt), n. hydrogenize + -ation.] In chem., the production of combination with hydrogen.

hydrogenize + -ation.] In chem., the production of combination with hydrogen.

hydrogenize + -ation.] Of or pertaining to hydrogeology.

hydroferrocyanate (hī-drō-fer-ō-sī'a-nāt), n. A salt of hydroferrocyanic acid: more commonly called a ferrocyanide: as, potassium fer-

hydrofobia, n. A simplified spelling of hydro-

hydrofranklinite (hī-drō-frangk'lin-īt), n.

hydrofranklinite (hī-drō-frangk'lin-īt), n. A hydrated oxid of iron, manganese, and zinc, occurring at Franklin Furnace, N. J. It was at first supposed to be an independent isometric species, but is in fact ideutical with chalcophanite, having a rhombohedral, not octahedral form. hydrogallein (hī-drō-gal'ē-in), n. [hydrogalleic + $-in^2$.] A colorless crystalline compound, $O < \frac{C_6H_2(OH)_2}{C_6H_2(OH)_2} > C < \frac{C_6H_4}{O} > CO$, prepared from hydrogalleic acid, of which it is the anhydrid. the anhydrid.

hydrogel (bī'drō-jel), n. [Gr. $\dot{v}\delta\omega\rho$ ($\dot{v}\delta\rho$ -), water, + L. gel(are), cool (see $\pm gel$, n.).] A gel in which the individual gelatinous par-

hydrogel (hi'drō-jel), n. [Gr. ióωρ (ióp-), water, + L. gel(are), cool (see *gel, n.).] A gel in which the individual gelatinous particles are supposed to be surrounded by water; the gelatinous hydrate formed by a colloid. The inorganic colloids or so-called hydrogels have been studied by Van Bemmeien. They are chiefly characterized by heating to too high a temperature the colloid surcture is destroyed. Science, Feb. 6, 1905, p. 213. hydrogen, n. Hydrogen compounds with strongly electronegative elements or radicals, easily exchanging hydrogen for strongly electropositive elements or radicals to form saits, are the same as acids: as hydrogen chiorid (hydrochloric acid), hydrogen, sulphate (sulphur'acid), etc.—Oosmic hydrogen, the peculiar acid), etc.—Oosmic hydrogen, the peculiar similar but not identical law.—Hydrogen alphate (sulphur'acid), etc.—Oosmic hydrogen, the peculiar similar but not identical law.—Hydrogen dioxid, a substance occurring in traces in the atmosphere, and produced to some extent during the oxidation of turpentine and other materials in presence of water, prepared in quantity by the action of dilute sulphuric acid on barlum dioxid. It is a somewhat viscid, colorless liquid (in mass of deeper blue color than water), of density 1.5, with an irritant smell and harsh, acrid taste, corrosive to the skin and capable of bleaching colors of organic origin, less volatile than water (boils at 184° F. under 68 millimeters pressure), and easily decomposed by heat or by contact with sundry substances, such as spongy platinum, silver oxid, etc., into oxygen gas and water. Its composition is represented by the formula H₂O₂, or, when acting as a radical in combination, HO. Used in certain processes of bleaching, in chemical analysis, and as an antiseptic. Also known as hydrogen gas and water. Also called hydrogen protoxid.—Hydrogen monoxid, the technical name of the common substance water. Also called hydrogen, making it difficult to determine its exact composition; this is probably Hydrogen mittrate.

hydrografy, etc. A simplified spelling of hydrography, etc. hydrograph (hi'drō-graf), n. [Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), water, $+\gamma\rho\dot{a}\phi\epsilon\iota\nu$, write.] 1. A diagram showing the heights of water in a river day by day during any interval.

The highest and lowest water, mean stage, and monthly range at 134 river stations are given in Table VII. Hydrographs for typical points on seven principal rivers are shown on Chart V.

U. S. Mo. Weather Rev., Jan., 1902, p. 8. 2. An apparatus for automatically recording the height of water in rivers or in wells, analogous to the linnograph for lakes or to a self-recording tide-gage for oceans. It has a vertical scale for the height of water and a horizontal scale for the time.

Hydrographic chart, engineer. See *chart,

hydrographically (hī-drō-graf'i-kal-i), adv. By the art or methods of hydrography.

hydrohemia (hī-drō-hē'mi-ä), n. Same as hy-

hydroherderite (hī-drō-hèr'der-īt), n.

hydroholoxid (hī'drō-hō-lok'sid), n. (gen) + Gr. δλος, whole, + E. oxid.] A hypothetical product of the union of a basic oxid not merely with the elements of water but also with those of hydrogen dioxid.

hydrohyalus (hi-drō-hi'a-lus), n. [Gr. ὑδωρ (ὑδρ-), water, + ὑαλος, glass.] A kind of fixative used to preserve the color of marble and

hydrokineter (hi'drō-ki-nē'ter), n. [Gr. \hat{v} dωρ (\hat{v} dρ-), water, + κινητήρ, a mover.] A device for circulating the water in a steam-boiler while the fire in the furnace is being started, or when natural circulation or convection is

or when natural circulation or convection is inadequate. It consists of a nozle, located below, the water-level, through which a jet of steam is thrown into the water in the boiler, thus warming it and keeping it in circulation. Marine Rev., Nov. 17, 1898, p. 16.

hydrol (hī'drol), n. [hydr(ogen) + -ol.] A hypothetical hydroxylated derivative of phenolphthalein. In general the name might be used for compounds with a number of hydroxyl groups, particularly if they are tautomeric.

Hydrolagus (hī-drol'a-gus), n. [NL., < Gr. iδωρ (iδρ-), water, + λαγως, hare.] A subgenus



(From Bulletin 47, U. S. Nat. Museum.)

of the genus Chimæra, typified by the elephant-fish of the California coast, usually called Chimæra colliei.

hydrolatry (hi-drol'a-tri), n. [Gr. ὐδωρ (ὑδρ-), water, + λατρεία, worship.] The worship of water. Jour. Amer. Folk-lore, April-June,

water. Pour 1 to the local space of the local spa

by dyers, bleachers, and scourers to extract water from textile materials. The wet material is ase.] A type of reducing ferment.

placed in a perforated drum or basket and revolved at a speed of from 500 to 1,000 or more revolutions per minute, thus causing the water to be expelled through the perforations by centrifugal force.

2. In tanning, a wringer for removing water from skins. Modern Amer. Tanning, p. 36.

A salt of hydroferricyanate (hi'drō-fer-i-si's-nāt), n.

A salt of hydroferricyanide: as, potassium fernonly called a ferricyanide: as, potassium ferricyanide.

by drogenase (hi'drō-fer-i-si's-nāt), n.

hydrogenize (hi'drō-je-nās), n. [hydrogen + hydrogen + hydr

hydrolyse, v. See *hydrolyze. hydrolyst (hī'drō-list), n. [hydroly(sis)

hydrolyst (hī'drō-list), n. [hydroly(sis) + -(i)st.] A hydrolytic agent; a substance which causes hydrolysis. N. E. D.
hydrolyte (hī'drō-lit), n. [Gr. ὑδωρ (ὑδρ-), water, + λυτός, ⟨λὑευ, dissolve.] A substance which is undergoing hydrolysis.
hydrolyze (hī'drō-liz), v. t.; pret. and pp. hydrolyzed, ppr. hydrolyzing. [hydroly(sis) + -(i)ze. Cf. analyze.] To cause (a substance) to undergo hydrolysis. This is often done indirectly by the action of bases or acids, the metal or acid being subsequently replaced by hydrogen and hydroxyl respectively. Thus, if fat is treated with steam, fatty acids and glycerol are formed: this is direct hydrolysis. If the fat is heated with a solution of a base, glycerol and the fatty acids are ilherated by the addition of a mineral acid: this is indirect hydrolysis. The reaction is one of extreme importance in chemistry.

The formation of starch, its chemical composition and

extreme importance in chemistry.

The formation of starch, its chemical composition and the changes it undergoes when hydrolysed.

Nature, April 16, 1903, p. 553.

hydromania, n. 2. A morbid impulse to excessive drinking of water.

hydromase (hī'drō-mās), n. A ferment found in the hyphæ of certain fungi which is capable of destroying the lignified walls of vegetable

cells. hydromechanical (hī'drō-mē-kan'i-kal), a. Of or pertaining to the science of liquids in motion, or to mechanical devices in which water

is employed.

hydromeconic (hī'drō-mē-kon'ik), a. [hydro-(gen) + meconic.] Noting an acid, a color-less, syrupy compound, $C_7H_{10}O_7$, which is formed by the reduction of meconic acid. It

hydrometime.

(tôρ-), water, τ ative used to preserve the conomative used to prove the first and the proportion of one to two.

Jour. Hellenic Studies, X. 275.

hydroid, n. 2. A hydropolyp.

hydroidean (hī-droi'dē-an), a. and n. I. a.

Of or pertaining to the Hydroidea.

II. n. A hydroid polyp.

hydroigneous (hī-drō-ig'nē-us), a. Same as *cyamellonic (pen) + mellone + ic.] Same as *cyamello

process by hydraulic power.

hydrometamorphic (hī'drō-met-a-môr'flk), a. In geol., characteristic of, or produced by, hydrometamorphism.

hydrometeoric (hī'drō-mē-tō-or'ik), a. [hydro-meteor + -ic.] Of or pertaining to the aqueous phenomena of the atmosphere.—Hydrometeoric

equator. See *equator.

hydrometer, n.— Tralles hydrometer, a hydrometer so graduated that in a mixture of alcohol and water at 60° F. each degree of the scale represents 1 per cent. by volume of pure alcohol of sp. gr. 0.7939. The indications of this instrument are legally in use in the United States. hydrometrical (hi-drō-met'ri-kal), a.

as hydrometric. as hydrometric.

hydromineral (hī-drō-min'e-ral), a. [Gr. ὑδωρ (ὑδρ-), water, + Ε. mineral.] Relating to mineral waters; noting the treatment of disease by means of medicinal springs.

hydromuconic (hi'drō-mū-kon'ik), a. Noting

two acids (dihydromuconic acids), which may be obtained by the reduction of muconic acid. The Δαβ isomer, HOCOCH₂CH₂CH:CHCOOH, crystallizes in plates, melting at 168-169° C. The Δβγ isomer, HOCOCH₂CH:CHCH₂COOH, forms long, columnar crystals, which melt at 195° C.

tals, which melt at 195° C.

hydromuscovite (hī-drō-mus'kō-vīt), n. See

hydromyelocele (hī-drō-mī'e-lō-sēl), n. [Gr. \dot{v} δωρ (\dot{v} δρ-), water, + $\mu v \dot{v}$ δς, marrow, + $\kappa \dot{\eta}$ η, tumor.] An excess of fluid in the central canal

of the spinal cord; hydromyelia. hydronephros (hī-drō-nef'ros). n. [NL., \langle Gr. $i \delta \omega \rho$ ($i \delta \rho$ -), water, $+ \nu \epsilon \phi \rho \delta \rho$, kidney.] Edematous infiltration of the kidney. hydroneurosis (hī $^{\beta}$ drō-nū-rō'sis), n. [NL., \langle Gr. $i \delta \omega \rho$ ($i \delta \rho$ -), water, + NL. n e u r o s i s.] An

hydroperoxid (hī'drō-per-ok'sid), n. Same as *hydrogen dioxid: a term not in general use. hydrophil (hī'drō-fil), a. [Gr. $i\partial\omega\rho$ ($i\partial\rho$ -), water, $+\phi i\partial o\varsigma$, loving.] 1. Capable of readily taking up water; hygroscopie; bibulous.

Two electrodes of 10 sq. cm. surface were applied to the ends of a space 10 cm. by 6 cm. on the shaven skin of a rabbit, contact being made by means of hydrophil cotton impregnated with a 1 per cent. solution of zinc chloride.

**Elect. World and Engin., Nov. 28, 1903, p. 888.

Riect. World and Engin., Nov. 28, 1903, p. 888

2. In bot., same as hydrophilous.
hydrophilia (hi-dro-fil'i-i-ā), n. [NL., < Gr. ὐδωρ (ὑδρ-), water, + -φιλία, < φίλος, loving.] Fondness for being wet, for playing in or with water, for watching and hearing the flow of water, etc. G. S. Hall, Adolescence, II. 195.
hydrophilic (hi-drō-fil'ik), a. Same as *hydrophilic (hi-drō-fil'ik), a. Same as *hydrophilous, a. 2. In phytogeog.: (a) Requiring much moisture: said of plants. (b) Less properly, presenting conditions favorable to such plants; hydrophytic. (c) Aquatic: applied by Pound and Clements to a class of fungi. Also hydrophil.—3. In entom., having the char-

Also hydrophil.—3. In entom., having the character of a beetle of the genus Hydrophilus or family Hydrophilidæ.

hydrophily (hī-drof'i-li), n. Same as *hy-

hydrophlorone (hī-drō-flō'rōn), n. [hydro-(gen) + phlorone.] A colorless compound,

(CH₃)₂C₆H₂(OH)₂, prepared by the action of sulphur dioxid on phlorone. It crystallizes in pearly, lustrous leaves, melts at 212° C., and sublimes. Also called hydroparaxyloquinone, or 1.4-dimethylphendiol(2.5).

hydrophobiac (hī-drō-fō'bi-ak), n. [hydro-phobia + -ac.] One who is affected with hydrophobia

hydrophobian (hī-drō-fō'bi-an), n. [hydrophobia + -an.] Same as *hydrophobiac.
hydrophobist (hī-drō-fō'bist), n. [hydrophobia + -ist.] One who has a morbid dread or fear of water. N. E. D.

hydrophobous (hī-drof'ō-bus), a. Same as hy-

water, $+\phi\omega\nu\eta$, a sound.] 1. An instrument for detecting the flow of water in a pipe (thus locating waste) by the sounds produced in a microphone.—2. An instrument used in a microphone whereby sounds are conveyed auscultation whereby sounds are conveyed through a column of water.

hydrophore, n. 2. A flattened, or saucer-shaped, pedunculate appendage, in campanu-larian hydroids, representing a reduced hydro-

hydrophoria (hī-drō-fō'ri-ā), n. [Gr. ἐδροφορία (fem. sing.), water-carrying, also, like the usual ἐδροφόρια (neut. pl.), a festival so called, subject often represented on the Greek hydria, or water-nots.

hydrophthalic (hi-drof-thal'ik), a. [hydro-(gen) + phthalic.] Noting an acid, a substance formed by the addition of hydrogen to phthalic acid. Seventeen such compounds are known. They differ (1) by the number of atoms, 2, 4, or 6, of hydrogen added to the phthalic acid; (2) by the different positions of the double unions in the molecule; (3) by the spatial arrangement of the groups, which leads, in some cases, to the exhibition of optical activity. The compounds have proved to be of extreme importance in the study of the constitution of benzene.

hydrophyte, n. 2. In phytogeog., a plant adapted to live under conditions of abundant moisture, or, in late usage, abundant physio-

moisture, or, in late usage, abundant physiological moisture. Compare *mesophyte and *xerophyte.

exaggerated or pathological fondness for water; an extreme tendency to hydropsychoses. G. S. Hall, Adolesseence, H. 194.

hydronitric (hī-drō-ni'trik), a. [Gr. iódop (idop-), water, + NL. nitricus, nitric.]—Hydronitric acid. Same as *hydrazoic acid.

hydrogaracoumaric (hī'drō-par-a-kō-mar'ik), a. [hydrogaracoumaric] Noting an acid, a colorless compound, HOC6H4CH2CH2 COOH, found in urine and in the putrefaction-products of tyrosin, and prepared by the reduction of paracoumaric acid. It forms small monoclinic crystals and melts at 128-129° C. hydropathic, a. H. n. [Short for hydropathic catablishment.] A sanatorium in which the treatment is chiefly hydropathic; a water-cure establishment.] A sanatorium in which the treatment is chiefly hydropathic; a water-cure establishment.

There are also mud-baths and hydropathic; a water-cure establishment.

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There are also mud-baths and hydropathic; a water-cur

in long, thin needles and melts at 75-76° C.
hydroplane (hī'drō-plān), n. [Gr. iðωρ (iðρ-),
water, + E. plane¹, n.] A name given by its
inventor to the horizontal side-submerging
rudder of the Lake type of submarine boat.
There are two of these horizontal rudders on
each side of the boat manipulated in unison;
when they are inclined forward and downward
they cause the heat to be retreated he sile

when they are inclined forward and downward they cause the boat to be submerged bodily instead of having a diving motion.

hydroplastics (hī-drō-plas'tiks), n. Same as *hydroplasty (hī-drō-plas'ti), n. [Gr. ῦδωρ (νόρ-), water, + πλαστός, formed, +-y³.] The electric deposition of metal upon molds or forms; hydroplastics; galvanoplasty.

hydroplutonic (hī'drō-plö-ton'ik), a. [Gr. νόωρ (νόρ-), water, + E. Plutonic.] In geol., noting deep-seated igneous processes which involve water as well as heat.

Hydropneumatic brake. See *brake³.

Hydropneumatic brake. See *brake3. hydropolyp, n. 2. A hydrula. hydropore (hī'drō-pōr), n. [Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), water, + $\pi\delta\rho\sigma\varsigma$, pore.] In larval echinoderms, a pore opening from the left hydrocele to the

hydropot (hī'drō-pot), n. [Gr. ὐδροπότης, a water-drinker, < ὑδωρ (ὑδρ-), water, + πότης, drinker.] A water-drinker; a teetotaler.

hydropotassic (hi'drō-pō-tas'ik), a. [hydro-(gen) + potass-ium + -ic.] In chem., contain-ing both hydrogen and potassium as constitu-

ents: as, hydropotassic sulphate (KHSO₄).
hydropsical (hi-drop'si-kal), a. [hydrops(y) +
-ical.] Same as dropsical. Buck, Med. Handbook, V. 332.

hydropsychosis (hī-drop-si-kō'sis), n.; pl. hydropsychoses (sēz). [NL., ⟨Gr. νόωρ (νόρ-), water, + NL. psychosis.] In psychol., a specific mental process aroused by and referring to water; especially, in genetic psychol., a manifestation of interest in and fondness for water, supposed to be ataxistic. supposed to be atavistic.

festation of interest in and fondness for water, supposed to be atavistic.

Youth works a sea change and the hydropsychoses strike inward. . . I can not read these youthful chullitions without inclining to believe in residual traces that hark back through ages, and that the soul is still marked like our body by vestiges of pelagic life.

hydropyridic (hi'drō-pi-rid'ik), a. Of or pertaining to the hydropyridines.

hydropyridine (hī-drō-pir'i-din), n. [hydro-(gen) + puridine.] A class name applied, in organic chemistry, to compounds derived from pyridine by the addition of two, four, or six atoms of hydrogen, respectively, giving derivatives of dihydropyridine, C₅H₇N, tetrahydropyridine, C₅H₁N. Many of the compounds are closely related to alkaloids and to ptomaïnes.

hydroquinine (hī-drō-kwin'in), n. [hydro(gen) + quinine.] 1. A bitter, alkaline, levorotatory alkaloid, C₂₀H₂₀C₂N₂.2H₂O, found in cinchona bark, together with quinine, which it closely resembles in medicinal and general chemical

resembles in medicinal and general chemical properties. It crystallizes in needles, and, when dehydrated, melts at 172.3° C.—2. A greenish resin, C₂₀H₂₆O₃N₂.H₂O, formed by the reduction of quinine in acid solution. It softens at 35° C. and melts at 100° C.

hydrorhabd (hi'dro-rabd), n. [Gr. $v\delta\omega\rho$ ($v\delta\rho$ -), water, $+\dot{p}\dot{a}_{\beta}\delta\sigma_{\zeta}$, rod.] The rhabdosome of the graptolites.

ragmental rock of coarse grain, formed by the action of water; a conglomerate. Amer. Geol., April, 1904, p. 247.

**Trades, rubole, T. radas, rubole, rubole,

world and Engin., Jan. 24, 1903, p. 161.

hydroscopic (hī-drō-skop'ik), a. 1. Same as hygroscopic, 2.—2.

Of or pertaining to the hydroscope.

hydroscope.
hydroscopical (hi-drō-skop'i-kal), a. Same as *hydroscopist (hī 'drō-skō-pist), n. [As hydroscope + -ist.] One who searches for water with the assistance of a divining-rod.

hydrosilicarenite (hī'drō - sil - i - kar'ē - nīt), n.

hydrosilicarenite (hī'drō-sil-i-kar'ō-nīt), n. [Spelled with intended distinction -yte; ⟨ Gr. v̄dωρ (v̄dρ-), water, + NL. silica + L. arena, harena, sand, + -ite².] A medium-grained silicious hydroclastic rock; a sandstone. Amer. Geol., April, 1904, p. 247.
hydrosilicate (hī-drō-sil'i-kāt), n. [Gr. v̄dωρ, (v̄dρ-), water, + E. silicate.] A silicate which contains water, particularly one which gives off water readily upon heating. It is impossible to draw the line between true hydrous silicates and those basic (or acid) species containing hydroxyl (or hydrogen) and which give off water on intense ignition.
hydrosilicilntite (hī'drō-sil'i-si-lō'tīt). n.

and which give off water on intense ignition.

hydrosilicilutite (hī'drō-sil'i-si-lö'tīt), n.

[Spelled with intended distinction -yte; < Gr.

νδορ (νόρ-), water, + L. silex, flint, + lutum,
mud, + -ite².] A fine-grained silicious hydroclastic rock; a fine silicious mud; a fine
silicious shale. Amer. Geol., April, 1904, p.
247

241.

hydrosilicirudite (hi'drō-sil'i-si-rö'dit), n.

[Spelled with intended distinction -yte; ⟨ Gr. iδωρ (iδρ-), water, + L. silex, flint, + rudus, rubble, + -ite².] A coarse silicious hydroclastic rock; a silicious conglomerate. Amer. Geol., April, 1904, p. 247.

hydrosodic (hi-drō-sō'dik), a. [hydro(gen) + sod turn + ia]. In chem. coataining both hy

nydrosodic (hī-drō-sō'dik), a. [hydro(gen) + sod-num + -ic.] In chem., containing both hydrogen and sodium as constituents: as, hydrosodic sulphate (sodium-acid sulphate, NAHSO) NaHSO4).

hydrosol (hī'drō-sol), n. [hydr(ate) + sol-(uble).] In chem., a term proposed by Graham to signify the soluble hydrate of a colloid substance. It has been used to include metals, as gold or silver, in a state of extreme subdivision and permanently suspended or apparently dissolved in water.

nently suspended or apparently dissolved in water.

hydrosorbic (hī-drō-sōr'bik), a. [hydro(gen) + sorbic.] Derived from hydrogen and sorbic acid.— Hydrosorbic acid, a colorless liquid, CH₃CH₃CH₂CHCH₂COOH, formed by the reduction of sorbic acid. It boils at 208° C. Also called B-y-hezenic acid. hydrosphygmograph (hī-drō-sfig' mō-grāf), n. [Gr. vôωρ (vôρ-), water, + E. sphygmograph.] A device consisting of a cylinder containing water and connected with a registering tube, used to record the amount of blood forced with each pulsation into a limb incased in the apeach pulsation into a limb incased in the apparatus.

With the sphygmograph (or, rather, the hydrosphygmograph) he observed the degree of excitement produced on various individuals by the sight of wine, cigars, food, money, and photographs of nude women.

H. H. Ellis, The Criminal, p. 122.

hydrospiric (hī-drō-spī'rik), a. Of or pertaining to the hydrospires of the Blastoidea. Amer. Geol., Jan., 1904, p. 46.

hydrorudite (hī-drō-rō'dīt), n. [Spelled with hydrostatic, a. 2. In phytogeog., taking place intended distinction hydrorudyte, \langle Gr. $i\delta\omega\rho$ under conditions of substantially uniform ($i\delta\rho$ -), water, + rudus, rubble, + -ite².] A fragmental rock of coarse grain, formed by the action of matter according to the conditions of substantially uniform wetness: said of a succession of vegetations. F. E. Clements.—Hydrostatic head. See *head. [hydrostathydrostome (hī'drō-stōm), n. [Gr. $\dot{v}\delta\omega\rho$ ($\dot{v}\delta\rho$ -), hydrotimetry (hī-drō-tim'e-tri), n. [Gr. $\dot{v}\delta\rho\delta$ - hydroxylated (hī-drok'si-lā-ted), p. a. water, + $\sigma r\delta\mu a$, mouth.] The mouth of a hy- $\tau\eta\gamma$, moisture, + $-\mu\epsilon\tau\rho ia$, $<\mu\epsilon\tau\rho\nu\nu$, measure.] In taining the hydroxyl group or radical.

water, $+ \sigma r \delta \mu a$, mouth.] The mouth of a hydroid polyp, or hydranth. hydrosulphid, n. 2. A compound in which one of the atoms of hydrogen in hydrosulphuric acid (sulphureted hydrogen) is replaced by a more strongly electropositive element or radical: as, sodium hydrosulphid (NaHS). Jour. Soc. Chem., IX. 804.

hydrosulphite, hydrosulfite (hī-drō-sul'fīt), n. [hydrosulph(urous) + -ite2.] In chem., a salt of hydrosulphurous acid, now called hyposul-

of hydrosulphurous acid, now called hyposulphurous acid (H₂S₂O₄).

hydrosulphocyanic (hī-drō-sul'fō-sī-an'ik), a. [hydro(gēn) + sulphocyanic.] In chem., same as sulphocyanic, more properly thiocyanic as, hydrosulphocyanic acid (now thiocyanic acid).

hydrosulphuric (hī'drō-sul-fū'rik), a. [hydro-(gen) + sulphur + -ic.] In chem., containing hydrogen and sulphur as constituents: as, hydrosulphuric acid. drosulphuric acid.

hydrosyringomyelia (hī'drō-si-ring'gō-mī-ē'-lī-ā), n. [NL., \langle Gr. $\dot{\nu}\delta\omega\rho$ ($\dot{\nu}\delta\rho$ -), water, + $\sigma\dot{\nu}\rho\gamma\dot{\epsilon}$ ($\sigma\nu\rho\gamma\gamma$ -), a pipe, + $\mu\nu\epsilon\lambda\dot{\epsilon}$, marrow.] The formation of cavities in the spinal cord, together with accumulation of fluid in the central σ

tral canal.

hydrotachymeter (hī 'dro-tā-kim'e-tèr), n. [hydr(aulic) + tachymeter.] A governor or regulator for indicating and controlling the speed of a hydraulic turbine. Nature, March 5, 1903, p. 431.

hydrotactic (hī-drō-tak'tik), a. [hydrotaxis (-tact-) + -ic.] Of or pertaining to the movement of cells or of organisms in relation to

moisture; exhibiting hydrotaxis.

hydrotasimeter (hī'drō-tā-sim'e-ter), n. [Gr. $i\delta\omega\rho$ ($i\delta\rho$ -), water, + E. tasimeter.] An electric device for indicating the level of water in a

*hydrotechnic

hydrotechnics (hī-drō-tek'niks), n. Same as hudrotechnu

hydrotechnologist (hī'drō-tek-nol'ō-jist), n. [Gr. $i\partial\omega\rho$ ($i\partial\rho$), water, + E. technology + -ist.] One versed in the art of storing and distributing water, or in the general problems relating to water-supply.

As to the physics of running water, hydrotechnologists have recognized the dependence of velocity on the declivity of the water surface and depth.

Geog. Jour. (R. G. S.), X. 619.

hydrotechnology (hī'drō-tek-nol'ō-ji), n. [Gr. $\dot{v}\delta\omega\rho$ ($\dot{v}\delta\rho$ -), water. + E. technology.] The scientific study of hydrotechny. hydrotechny (hī'drō-tek-ni), n. [Gr. $\dot{v}\delta\omega\rho$ ($\dot{v}\delta\rho$ -), water, + $\tau \dot{\epsilon}\chi\nu\eta$, art.] That branch of hydraulic engineering which deals with the storage and distribution of water; the technical experience of water appeals

nics of water-supply. In Arizona, Mexico, and Peru reservoirs and aqueducts prove that hydrotechny was understood.

Rncyc. Brit., XXV. 374.

hydrotherapic (hī'drō-the-rap'ik), a. [hydro-therap-y + -ic.] Same as hydrotherapeutic. Hydrothermal fusion. See *fusion.

hydrothionæmia (hī 'drō-thī-ō-nē' mi-ä), n. [Gr. ὐδωρ (ὑδρ-), water, + θείω, sulphur, + αίμα, blood.] The presence in the blood of hydrogen sulphid, as in certain forms of auto-

hydrogen sulpnid, as in certain forms of auto-intoxication. Buck, Med. Handbook, I. 642. hydrothionic (hi'drō-thi-on'ik), a. [Gr. $\dot{v}\delta\omega\rho$ ($\dot{v}\delta\rho$ -), water, $+\theta\epsilon i\sigma v$, sulphur, $+\epsilon c$.] Noting an acid discovered by Schützenberger and first called by him hydrosulphurous acid, now generally called hyposulphurous acid, this latter name having formerly been used for a different substance now known as thiosulphuric acid, H₂S₂O₃. The formula for Schützenberger's acid is probably H₂S₂O₄. It is an energetic reducing agent.

reducing agent.
hydrothionuria (hī'drō-thī-ō-nū'ri-ā), n. [NL., ζ Gr. νδωρ (νδρ-), water, + θείον, sulphur, + ονρον, urine.] The elimination of hydrogen sulphid in the urine.

hydrotic, a. 2. Noting an acid, a syrupy compound, C₅H₉O₇N. found in perspiration. hydrotimetric (hī'drō-ti-met'rik), a. Relating

to hydrotimetry. S.-39

της, moisture, + -μετρία, $\langle μέτρου$, measure.] In chem., the determination of the degree of hard-

ness of a natural water. See hydrotimeter.

hydrotropic, a. 2. In phytogeog., governed by conditions which change from dry to wet: said of a succession of vegetations. F. E. Clements.—3. In psychol., interested in water; tending to hydropsychoses.

In the normal soul there is now an outcrop of the same psychic strata which once created and gave life and sacredness to lustrations, baptisms, oracles, water deities, philosophemes like those of Thales, who made water the source of all things, or of Heraclitus, who saw in vapor, water, and ice the key to the universe which was constantly fluxing up or down the long way of rarefication and condensation between ether and rock. So, too, the stream is in a hundred ways the type of life. The soul is hydrotropte, and this is the sacred hour of opportunity for bringing these dim and dumb molimena of the soul to their issue, for wedding the individual promptings to the best that literature, art, history, of the races have to offer in a way that makes teaching at its best such a high and sacred calling.

hydrox-. See *hydroxy-. hydroxanthic (hi-drok-san'thik), a. [hydro-(gen) + xanthic.] Same as xanthic.

(gen) + xanthic.] Same as xanthic.

hydroxid, n.—Sodium hydroxid, caustic soda (NaHO), extensively manufactured, especially for soap-boilers use: often but improperly called sodium hydrata.—Strontium hydroxid, a material used in the strontic process for treating beet-root molasses; chiefly prepared by strongly heating the mineral strontianite in a gas-fired kiln with a basic lining, and afterward slaking the strontia thus obtained by addition of water, dissolving, and crystallizing. hydroxidated (hi-drok'si-dā-ted), a. [hydroxid+-atel+-ed².] In chem.. converted into

-ate1 + -ed2.] In chem., converted into a hydroxid.

hydroxy-(hi-drok'si-). [hydr(ogen) + oxy(gen).]
An initial member in many compound terms in chemistry, often written as if a separate in chemistry, often written as if a separate device for indicating the level of water in a tank or reservoir.

hydrotaxis (hī-drō-tak'sis), n. [NL., < Gr. idωρ (idρ-), water, + τάξις, disposition.] The movement of a cell or of an organism in relation to moisture.

hydrotechnic (hī-drō-tek'nik), a. Of or pertaining to hydrotechny; relating to hydraulic engineering.

hydrotechnical (hī-drō-tek'ni-kal), a. Same as *hydrotechnic.

in chemistry, often written as if a separate word, hydroxy, indicating that the substance designated contains the hydroxyl radical or group, HO. The term oxy- is often used, less correctly, with the same meaning.—Hydroxy acid, an organic acid which contains, in addition to its characteristic states as acid. Such compounds are often, less correctly, called oxyacids.—Hydroxy compound, in chem., a compound of which the radical hydroxyl is a constituent.—Hydroxy group. Same as hydroxyl.

hydroxyacetone (hī-drok-si-as'e-tōn), n. Same as *acetol.

hydroxyammonia (hī-drok'si-a-mō'ni-ä), n. Same as *hydroxylamine.

hydroxyaromatic (hī-drok'si-ar-ō-mat'ik), Noting any organic compound, of the aromatic series, which contains one or more hydroxyl groups. Nature, Feb. 5, 1903, p. 332.

hydroxyazo. A prefix in chemistry. See hydurilic (hī-dū-ril'ik), a. [hyd(rogen) + ur(ic)]

hydroxybenzene (hī-drok-si-ben'zēn), n. phenol.

hydroxycarbamide (hī-drok-si-kār'ba-mid), n.

See *hydroxylcarbamide. hydroxycomenic (hī-drok'si-kō-men'ik), The distribution of the content of

hydroxyketone (hī-drok-si-kē'tōn), n.

hydroxylamine (hī-drok-sil-am'in), n. droxyl + amine.] A colorless basic comm A colorless basic compound, NH₂OH, prepared by the reduction of various NH₂OH, prepared by the reduction of various oxygen derivatives of nitrogen. It crystallizes in scales, or hard needles, melts at 33° C., boils at 83° C. under 22 millimeters pressure, and easily explodes when heated. In its general properties and in those of its salts it closely resembles ammonia, with the exception that it readily reduces certain metallic salts such as those of silver or mercury. It is much used in organic chemistry for the isolation of ketones or aldehydes. Occasionally called hydroxyammonia.— Hydroxyiamine nitrate, a colorless crystalline compound, HONH₃NO₃, the salt of nitric acid and hydroxylamine. It is readily soluble in absolute alcohol and decomposes into water and nitric oxid when heated. hydroxylate (hī-drok'si-lāt). v. t.; pret, and

oxid when heated.

hydroxylate (hī-drok'si-lāt), v. t.; pret.
hydroxylated, ppr. hydroxylating.

[hydroxyl + -atel.] In chem., to cause to combine with the radical hydroxyl. Rep. Brit.
Ass'n Advancement of Sci., 1900, p. 298.

C; when dehydrated the nelting-point is 164 °C.
hygrograph, n.—Hair-hygrograph an instrument, based on the principle of the hair-hygrometer, used for recording variations in the moisture of the air.
hygrology, n. 2. The study of the origin and properties of aqueous vapor, including its

hydroxylation (hi-drok-si-lā'shon), n. [hydroxylation (hi-drok-si-lā'shon), n. [hydroxylate+-ion.] In chem., combination with the radical hydroxyl, HO.
hydroxylcarbamide (hi-drok-sil-kār'ba-mid),

n. A colorless compound, H₂NCONHOH, prepared by the action of hydroxylamine ni-

prepared by the action of hydroxylamine nitrate on potassium cyanate. Iterystallizes in needles and melts at 130° C. Also called hydroxycarbamide, hydroxylurea, and, formerly, hydroxylurea.

hydroxylic (hi-drok-sil'ik), a. [hydroxyl + -ic.] Pertaining to or containing the hydroxyl group. Encyc. Brit., XXVIII. 364.—Hydroxylic hydroxylinolein (hi-drok'si-li-nō'lē-in), n. [hydrogen. See *hydrogen.

hydroxylinolein (hi-drok'si-li-nō'lē-in), n. [hydr(ogen) + oxy(gen) + L. linum, flax, + oleum, oil, + -in².] In chem., a neutral substance believed to be formed during the drying of linseed-oil by the absorption of oxygen from the air: essentially the same as *linoxum from the air: essentially the same as *linoxyn (which see).

(which see). hydroxylurea (hī-drok-si-lū'rē-ši), n. Same as hydroxylcarbamide. hydroxypyrone (hī-drok-si-pī'rōn), n. [hydr(o-gen) + oxy(gen) + Gr. $\pi \bar{\nu} \rho$, fire, + -one.] A colorless compound, CO \langle COH: CH \rangle O, prepared by the distillation of meconic acid. It crystallizes in large prisms, melts at 117° C., boils at 227-228° C., and sublimes at the ordinary temperature.

hydroxysulphid (hi-drok-si-sul'fid), n. In chem., a compound containing both hydroxyl and sulphur, as calcium hydroxid and hydro-

and sulphur, as calcium hydroxid and hydrosulphid occurring combined (or merely mixed) in the tank waste of alkali works. G. Lunge, Sulphuric Acid, II. 817.

hydroxyurea (hī-drok-si-ŭ'rē-š), n. Same as *hydroxylurea and *hydroxylcarbamide.
hydroxylurea and *hydroxylcarbamide.
hydrozone (hi'drō-zōn), n. [hydr(ogen) + ozone.] A trade-name for hydrogen dioxid.
hydrula (hi'drū-lš or hid'rū-lš), n.; pl. hydrulæ (-lē). [NL., dim. of hydra, hydra.] In the development of hydroid polyps, the stage succeeding the planula, the simple polyp having a disk of attachment at its proximal end, and at the distal end a manubrium and end, and at the distal end a manubrium and hydroxyacetone (hi-drok-si-as'e-tōn), n. Same as *acetol.
hydroxyacid (hi-drok'si-as'id), n. See *oxyacid.
hydroxyammonia (hi-drok'si-a-mō'ni-ä) **
hydroxyammonia (hi-drok'si-a-mō'ni-ā-mō'ni-ā-mō'ni-ā-mō'ni-ā-mō'ni-ā-mō'ni-ā-mō'ni-ā-mō'ni-ādruria.

hydrureted, hydruretted (hī'drö-ret-ed), In chem., combined with hydrogen an anti-quated term at no time in general use.

A salt of hydurilic acid.

See hydurilic (hī-dū-rīl'ik), a. [hyd(rogen) + ur(ic) + -il + -ic.] Noting an acid, a colorless compound, CO < NHCO > CH:CH < CONH > CO(†),

formed by the oxidation of uric acid and by the prolonged boiling of alloxan and alloxantin with dilute sulphuric acid. It is obtained in small tetragonal columnar crystals with $2H_2O$, or pulverulent with $1H_2O$, and is a strong dibasic acid.

hyenasic (hi-ē-nā'sik), a. [hyen-ic + -ase +

needles, melting at 275° C.

hydroxydimethylpyrone (hī-drok/si-dī-methil-pī'rōn), n. [hydr(ogen) + oxy(gen) + di-2
+ methyl + pyrone.] A colorless compound,
CO < COH:C(CH₃) > O, formed by the exidation of dimethylpyrone in hydrogen peroxid.
It crystallizes in needles, melts at 162.5° C., and may be sublimed.
hydroxyketone (hī-drok-si-kō'tōn) ** Soo

hygiastic (hī-ji-as'tik), a. [Gr. ὑγιαστικός, serving to heal, ⟨ὑγιάζειν, heal, ⟨ὑγιάς, healthy: see hygiene.] Same as hygienic. hygiastics (hī-ji-as'tiks), n. Same as hygiene. hygric (hī'grik), a. [Gr. ὑγρός, moist, +-ic.] Relating to moisture or humidity.

Hallucinations of cutaneous and thermal sensibility, of pain, of the muscular sense, hallucinatory sensations of moisture on the skin (hygric hallucinations).

Lancet, April 18, 1903, p. 1115.

hygrinic (hi-grin'ik), a. [hygrine + -ic.] Derived from hygrine.—Hygrinic acid, a colorless compound, CH₃NC₄H₇COOH, prepared by the oxidation of the base C₈H₁₅ON (from hygrine). With 1H₂O it crystallizes in needles, softens at 85° C., and melts at 130° C.; when dehydrated the melting-point is 164° C.

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evaporation, condensation, pressure, relative humidity, density, weight, and all the rela-tions of vapor or moisture to the atmosphere. hygroma, n.—Fleischman's hygroma, an enlargement of a bursa lying to the outer side of the genioglossus muscle in the floor of the mouth.

hygroma, n.—Fleischman's hygroma, an enlargement of a bursa lying to the outer side of the genioglossus muscle in the floor of the mouth.

hygrometer, n.—Dufour's hygrometer, a porous diaphragm through which the vapor diffuses at a rate which varies with the difference of the elastic vapor pressures on either side of the diaphragm. The air within the diaphragm is kept saturated. Schidlofski modified this by using a metallic vessel containing water and having a porous cap over the opening, and a similar vessel containing air that is dried by a chemical absorbent. The differential rate of diffusion is the basis of the calculation of relative humidity.—Edelmann's hygrometer, a hygrometer which determines the tension or volume of the vapor present in a gaseous form, without taking account of any particles of fog that may be present in the atmosphere.—Hair-hygrometer, an instrument for the measurement of humidity in which the influence of moisture upon the length of a hair is used. A human hair, freed from fat by treatment with alkali, is suspended vertically. The lower end passes around a pulley, to which a pointer so that the hair absorbs water and increases in length. Changes of length, indicative of variations in the humidity of the surrounding atmosphere, cause a rotary movement of the pointer along a circular scale.—Mason's hygrometer, the wet-and-dry bulbor psychrometer as arranged by Mason, now replaced by the whirled, sling, or ventilated psychrometer.—Renoux-Matern hygrometer, a hygrometer, an apparatus in which the deposit of the slightest film of moisture on a polished metallic surface is announced by the completion of the electric circuit through the dew.—Trouton's electrical dew-point hygrometer, an apparatus in which the weight of a hygrometric body with its varying amount of moisture is recorded by an inked stylus on a revolving drum of graduated paper. The weight is assumed to vary with the hygrometric state or relative humidity of the atmosphere.

Hygrometric water See *water.

Hygrometric water. See *water. hygrometrically (hi-grō-met'ri-kal-i), adv. In a manner pertaining or relating to the moisture of the air; by means of hygrometry or of the hygrometer.

the hygrometer.

hygrometricity (hi'grō-me-tris'i-ti), n. [hygrometric + -ity.] The property of being hygrometric or of becoming moist by the absorption of water from the atmosphere.

hygrophily (hī-grof'i-li), n. [hygrophil+-y³.] Adaptation for life in damp places. Encyc. Brit., XXV. 432.

hygrophthalmic (hī-grof-thal'mik), a. [Gr. iγρός, moist, + iφθαλμός, eye.] Relating to moisture in the eyes; lacrymal.

hygrophyte (hi'grō-fit), n. [Gr. ὑγρός, wet, + ψυτόν, plant.] In phytogeog., same as *hydrophyte: apparently first used by Wiesner (1889), in the form hygrophyta, by him opposed to hydrophyta

Typical hygrophytes have weakly developed roots, elongated axes, and large thin leaf-blades.

A. F. W. Schimper (trans.), Plant-Geog., p. 17.

drophyta.

hygroplasm (hī'grō-plazm), n. Same as hygro-

plasma.

hygroscopically (hī-grē-skop'i-kal-i), adv. In the manner of a hygroscopic substance.

hygroscopy (hī-gros'kē-pi), n. [hygroscope + -y³.] 1. The art of using the hygroscope.—

2. The art of making hygroscopes.—3. The actual observation of the general condition of the atmosphere as to moistness or dryness.—

4. The art of making the presence of aqueous vapor apparent by some one of its visible effects, such as cloud, haze, change of color. fects, such as cloud, haze, change of color,

fects, such as cloud, haze, change of color, change of form or shape, expansion, etc. hygrothermal (hī-grō-ther'mal), a. [Gr. $i\gamma\rho\delta\varsigma$, moist, + $\theta\epsilon\rho\mu\eta$, heat, + $-al^{1}$.] Relating to a special combination of hygrometric and thermal conditions: as, a hygrothermal area, one whose condition is included within given limits as to temperature and humidity.

Hylseobatrachus (hi'lē-ō-bat'ra-kus), n. [Gr. $i\lambda aio$, pertaining to the forest, $+\beta a\tau \rho a\chi o\zeta$, a frog.] A genus of anurous Amphibia representing the earliest known urodeles. It occurs in the Lower Cretaceous of Belgium. hylegiacal (hī-lē-jī'a-kal), a. [hyleg + -i-ac-

are to be secretical or removed from the cell, pl. Same as "Hymenogastrales.

as contrasted with their secretion or removal.

Hymenomycetiness (hi'men-ō-mī-sē-tin'ē-ē),

The process of the manufacture of substances by a cell

I have . . . proposed to call "hydogenesis," literally
meaning the formation of substance.

A. Mathews, Biol. Lectures, 1899, p. 165.

hymenopterological (hī'me-nop'te-rō-loj'ihydonism (hī'lō-nism) = [Gr. 52r. matter. + kal) a. Of or pertaining to hymenopterological.

ism + -i-an.] Same as hylopathic. Intell. Syst., III. 402. Cudworth,

hylophyte (hi'lō-fit), n. [Gr. $i\lambda\eta$, wood, + $\phi v r \dot{v}v$, plant.] A woody plant. Hylophytes are treated by the authors of the term as a subdivision of the mesophytes. Pound and

hylotropic (hī-lot'rō-pik), a. [Gr. $i\lambda\eta$, matter, $+\tau\rho\delta\pi\sigma_0$, turn, +-ic.] Capable of change from one phase into another, without variation of the properties of the residue and of the new phase; not separable into two or into fractive or into the properties of the residue and of the new phase; not separable into two or into fractive or into the properties of the residue and of the new phase; not separable into two or into fractive or into the properties of the residue and of the new phase; not separable into two or into fractive or into the properties of the residue and of the new phase; not separable into two or into fractive or into the properties of the residue and of the new phase; not separable into two or into fractive or into the properties of the residue and of the new phase; not separable into two or into fractive or into the properties of the residue and of the new phase; not separable into two or into fractive or into the properties of the residue and of the new phase; not separable into two or into fractive or into the properties of the residue and of the new phase; not separable into two or into fractive or into the properties of the residue and of the new phase; not separable into two or into fractive or into the properties of the residue and of the new phase; not separable into two or into fractive or into the properties of the residue and of the new phase; not separable into two or into fractive or into the properties of the new phase; not separable into two or into fractive or into the properties of the new phase; not separable into two or into fractive or into the new phase; not separable into two or into fractive or into the new phase; not separable into two or into fractive or into the new phase; not separable into two or into fractive or into the new phase; not separable into two or into fractive or into the new phase; not separable into two or into fractive or into the new phase; not separable into two or into fractive or into the new phase; not the new phase into the new phase into th tions having different composition. The term hylotropic body is the same as chemical individual or substance, but is broader than this.

Bodies of the first description we will call solutions, and of the second, hylotropic bodies. You will be inclined to call the latter substances or chemical individuals, and indeed both concepts are most nearly related. However, the concept of a hylotropic body is somewhat broader than that of a substance. Nature, May 5, 1904, p. 16.

hylotropy (hī-lot'rō-pi), n. [hylotrop-ic + -y3.] The condition of being hylotropic.

Thus the chemical element is defined as a substance which retains its hylotropy under all conditions; and the difference between elements and compounds lies, not so much in the ultimate nature of the two classes of substances, as in the extent to which they possess a certain quality—hylotropy.

Electrochem. Industry, Sept., 1904, p. 361.

tion of water from the atmosphere.

hygrophant (hi'grō-fant), n. [Gr. iγρός, wet, + φίνης, ⟨φαίνειν, show.] A special form of hygrophil (hi'grō-fil), a. [Gr. iγρός, moist, + φίλος, loving.] Same as *hygrophilous.

hygrophilous (hī-grof'i-lus), a. [Gr. iγρός, moist, + φίλος, loving, + -ous.] Moisture-loving; in phytogeog., having the character of a hygrophilous plants as correlated with eugeogenous soils. Also hygrophil. See quotation under *xerophilous.

hygrophily (hī-grof'i-li), n. [hygrophil + -y3.]

hygrophilous (hī-grof'i-li), n. [hygrophil + -y3.]

hymenocarid (hi'men-ō-kar'id), n. the Hymenocaridæ.

Hymenocaridæ (hī'men-ō-kar'i-dō), n. pl. [Hymenocaris (-rid-) + -idæ.] A primitive family of malacostracous Crustacea belonging to the suborder Hymenocarina. The carapace is pod-shaped and not divided by a median suture, the body segments are 8 or 9, and the caudal spines are in 3 pairs. The species are of Cambrian age.

Hymenocaris (hī-men-ō-kar'is), n. [NL., ⟨Gr. νμήν, a membrane, + καρίς, a shrimp.] The καρίς, a shrimp.] The typical genus of the Hymenocaridæ.

Hymenocaphalus (hi'-men-ō-sef'a-lus), n.

[NL., ζ Gr. ὑμήν, mem-brane, + κεφαλή, head.]

A genus of grenadier-fishes of the family Maccaris and property and pro

ruridæ, characterized by the thin and papery bones of the skull. Numerous species are found in the deep sea.

Hymenochæte (hī'men-ō-kē'tē), n. [NL. (Léveillé, 1846), 'Gr. ὑμίν, a membrane, + χαίτη, mane (NL. bristle).] A large genus of hymenomycetous fungi of the family Thelephoramenomycetous fungi of the family Thelephoraceæ, having leathery or corky sporophores of various shapes either resupinate or pileate. The hymenium bears simple cystidia intermingled with the basidia. The species are widely distributed and occur commonly on the trunks and branches of fallen trees. The name refers to the downy appearance of the hymenium of some species, caused by the projecting cystidia.

hymenodictyonine (hī'men-ō-dik'ti-o-nin), n. [Hymenodictyon (see def.) + $-ine^2$.] A crystalline alkaloid, $C_{23}H_{40}N_2$, contained in the East Indian shrub Hymenodictyon excelsum. Also hymenodyctine.

al.] In astrol., belonging to the hyleg. Zad-kiel, Gram. of Astrol., i. 15.

hylic (hī'lik), a. [Gr. ἐλικός, ⟨ ἐλη, matter.]
Pertaining to matter; material: among the Gnostics opposed to psychic and pneumatic.
hylogenesis, n. 2. The manufacture or production of substances by a cell: for example, the production by a cell of substances which are to be secreted or removed from the cell, as contrasted with their secretion or removel.

Hymenogasteres (hī'men-ō-gas'te-rēz), n. pl. Same as *Hymenogastrales.

Hymenogastrales.

Hymenogastrales.

Hymenogastrales.

Also Hymenogasteres and Hymenogastrines.

Hymenogastrines (hī'men-ō-gas-trā'lēz), n. pl. Same as *Hymenogastrales.

hylonism (hī'lō-nizm), n. [Gr. $i\lambda\eta$, matter, + kal), a. Of or pertaining to hymenopterology. + n + -ism.] Theoretical materialism. Haeckel (trans.), Wonders of Life, p. 82. (Demarest, 1823), \langle Gr. $i\mu\eta\nu$, membrane, + hylopathian (hī-lō-path'i-an), a. [hylopath-ism + -i-an.] Same as hylopathic. Cudworth, Hymenosomidæ.

Hymenosomidæ (hī'men-ō-som'i-dē), n. pl. [NL., < Hymenosoma + -idæ.] A family of crabs having a flat, more or less triangular, and usually thin carapace.

Hymenostomata (hi'men-ō-stō'ma-tā), n. pl. [NL., ζ Gr. ὑμήν, membrane, + στόμα(τ-), mouth.] A suborder of holotrichous Ciliata. in which the mouth is usually situated at the bottom of an elongated, gutter-like, peristomial depression and opens into a short esophageal tube which is never supported by a palisade of rods. In many, perhaps all, forms there is a small undulating membrane at the margin of the mouth. The families included are Chilifera, Microthoracina, Paramæcina, Urocentrina, Pleuronemina, Isotrichina, and Opalinina, found mostly in infusions, though the last two are parasitic. Delage.

Hymenula (hī-men'ū-lä), n. [NL. (Fries, 1825), dim. of Gr. vµtp, membrane.] A genus of hyphomycetous fungi of the family Tuber-culariaceæ, having the sporophores conglutinate in a disciform layer. The conidia are unicel-lular and oval or elongate. Over 40 species have been described. They occur mostly on decaying herbaceous

hymnic, a. II. n. A hymn-like composition. Lamb. N. E. D.

Hynnis (hin'is), n. [NL., < Gr. *ivvic, ivvic, ivvic, a plowshare.] A genus of cavallas of the family Carangidæ, typified by the compressed body. They are found in warm seas. H. hopkinsi occurs on the west coast of Mexico.

west coast of Mexico.
hyocophalous (hī-ō-sef'a-lus), a. [Gr. ὑς, swine, pig, hog, + κεφαλή, head.] Pig-headed. [Rare.]

We coined . . . the adjective "hyocephalous," which is a euphemism that comes in very conveniently when talking about Englishmen. Bookman, July, 1905, p. 452.

hyocholalic (hī'ō-ko-lal'ik), a. [Gr. ic, swine, $+\chi o\lambda h$, bile, +al1+ic (see cholalic).] Noting an acid, $C_{25}H_{40}O_4$, which results, on decomposition, from hyoglycocholic acid. It resembles cholalic acid, and like this is transformed into dyalysin in the intestinal canal.

the intestinal canal. hyocholic (hī-ō-kol'ik), a. [Gr. \dot{v}_{ς} , swine, + $\chi o \lambda l_{\uparrow}$, bile, +-ic.] Pertaining to hyocholic acid. —Alpha-hyocholic acid, a bitter compound, $C_{28}H_{40}O_{4}$, obtained from a-hyoglycocholic acid by the action of potassium-hydroxid solution. It forms granules which melt somewhat above 100° C. and otherwise resembles the β -acid.—Beta-hyocholic acid, a compound, $C_{24}H_{40}O_{4}$, formed by prolonged treatment of β -hyoglycocholic acid with sodium-hydroxid solution. It melts at about 100° C., exhibits absorption bands, and is dextrarrotatory.

hyoglycocholate (hī'ō-glī'kō-kol-āt), n. [hyo-glycochol-ic + -atel.] A salt of hyoglycocholic

hyoglycocholic (hi'ō-gli-kō-kol'ik), a. [Gr. vς, swine, + γλυκύς, sweet, + χολή, bile, + -ic.] Noting an acid, a solid, dextrorotatory compound, C₂₆N₄₃O₅N, obtained from swine's bile, in which it is present as a sodium salt. It forms resinous drops and exists in two modifications termed a and β-hyoglycocholic acid, which differ in the solubility of their salts.

solubility of their salts.

Hyohippus (hī-ō-hip'us), n. [NL., < Gr. v, pig, + inno, horse.] A genus of Miocene Tertiary ungulates having affinities with the horse, but generally regarded as belonging to the family Paleatheriidæ.

Hyoid arch, the chain of hyoid bones in the skull of a fish, which lies just anterior to the branchial arches and terminates anteriorly in the tongue.—Hyoid bar, the cartilaginous rod on either side in the hyoid or first postmandibular arch of sharks or of the embryos of higher vertebrates.

hyolithid (hī-ō-lith'id), n. One of the Hyolith-

Hyolithidæ (hī-ō-lith'i-dē), n. pl. [Hyolithus + -idæ.] A family of fossils, of doubtful systematic position, which are currently placed with the *Pteropoda*. It includes symmetrical conical or py-ramidal shells, the aperture of which is completely closed by a free operculum. It extends from the Cambrian to the Permian. hyolithoid (hī-ō-lith'oid), a. [Hyolith(us) + -oid.] Having the characters of the genus Hyolithus.

Hyolithus (hī-ol'i-thus), n. [NL., <Gr. νς, pig, + λιθος, stone.] The typical genus of the Hyo-

lithidæ.

Hyomandibular cleft. See *clefi!
hyoplastral, a. II. n. One of the two bones
which form the hycplastron of turtles. See
cut under Chelonia, 1. Annals and Mag. Nat.
Hist., Jan., 1903, p. 120.
Hyopsodidæ (hī-op-sod'i-dē), n. pl. [NL. Hyopsodus, the type genus, +-idæ.] A family of
small lemur-like animals whose fossil remains
occur in the Wasatch and Bridger Eocene.
Schlosser. 1887.

Schlosser, 1887.

hyosternal, a. II. n. Same as epihyal.
Starks, Synonymy of the Fish Skeleton, p. 517

hyostyly (hī-os'ti-li), n. [hyo(id) + Gr. $\sigma r \bar{v} \lambda o \varsigma$, pillar, + -y3.] That condition of the cranium in which the palatoquadrate articulates with dibular serves, to a greater or less extent, so suspensorium for the jaws: found in sharks and rays.—Hyostyly proper, a condition in which the second visceral arch is intact, the hyomandibular and hyoid segments together forming a movable support for the jaws: found in most sharks and typically, in Squatina.

Correlated with *keuhyostyly.

hyosuspensorial (hi*ō-sus-pen-sō'ri-al), a. [hyo(id) + suspensorium + -all.] Relating to the hyoid and suspensorium. Proc. Zool. Soc.

London, 1894, p. 636.

hyotaurocholic (hi*ō-tâ-rō-kol'ik), a. [Gr. vc, pig, + raipoc, bull (see taurin), + xolh, bile, + -ic.] Noting an organic acid, C28H45NSO8, found in the bile of pigs. On decomposition it yields taurin and hyocholalic acid.

Noting an organic acid, hyperabsorption (hi*per-ab-sôrp'shon), n. Excessively active absorption. Philos. Trans. Roy. Soc. (London), 1902, ser. B, p. 59. hyperacid (hi-per-as-kū'si-ā), n. [NL.] the cartilaginous cranium and the hyoman-

hyperacid (hi-per-as'id), a. Extremely or strongly acid.
hypabyssal (hip-a-bis'al), a. [Gr. ὑπό, under, + E. abyssal.] In petrog., a term applied by Brögger (1894) to igneous rocks intermediate in texture between coarse-grained (abyssal) forms and extrusive lava. They occur as facies of the coarse-grained forms in some instances, and in dikes and sheets. They correspond to Rosenbusch's 'dikerocks' (Ganggesteine). Geikie, Text-book of Geol. (4th ed.), p. 197.
hypartic (hi-nek'tib) - 197.

p. 197.

hypactic (hi-pak'tik), a. [Gr. ὑπακτικός, 〈 nary needs of the body.

νπάγειν, carry off below, 〈 ὑπό, under, + ἀγειν, hyperalkalinity (hi'per-al-ka-lin'i-ti), n. Exlead, carry.] Purgative; cathartic.

hypacusia (hi-pa-kū'si-ā), n. [NL.] Same

hyperanabolic (hi'per-an-a-bol'ik), a. Abnormally or excessively anabolic.

hypæthros (hī-pē'thros), n. Same as hypæthron.

Hypalbuminosis (hip-al-bū-mi-nō'sis), n. [hyp(o-) + albumen(-min) + -osis.] The preshyperaphia (h̄i-per-ā'fi-ā), n. [NL., \langle Gr. $i\pi\epsilon\rho$, ence of a subnormal amount of albumins in over, + $a\phi\eta$, touch.] Äbnormal acuteness of the bloodplasma.

hypallactic (hip-a-lak'tik), a. [Gr. ὑπαλλακτικός, exchangeable, ⟨ὑπαλλάσσειν, exchange.] Pertaining to or of the nature of hypallage. Fitzedward Hall.

hypallelomorph (hip-a-lel' \tilde{o} -m \hat{o} rf), n. [hyp(o-) + allelomorph.] In biol., one of the constituents of a compound allelomorph. See the

To sum up the phenomena of compound allelomorphism, we may say that the evidence shows that the characters of a pure form when crossed with another may be broken up into compound characters or hypathelomorphs, and that the decomposition may take place in various degrees of completeness.

Bateson and Saunders, Rep. Evol. Com. Roy. Soc., [1902, L. 148.]

hyparcuale (hī-pār-kū-ā'lē), n.; pl. hyparcualia (-lī-ā). [NL., < Gr. ind, under, + L. arcus, arch.] A bony arch, developed on the superior side of the notochord, which forms the neural arch: the equivalent of the *basidorsale* of Gedow Gadow.

The whole neurapophysis consists originally of a hyparcuale (my basidorsal proper) and of an eparcuale (my supradorsal).

Philos. Trans. Roy. Soc. (London), 1896, ser. B, p. 13.

Hypaxial actinophores. See *actinophore. hype, v. i. See *hipe.

Hypena, n. 2. [l. c.] A moth of this genus.

Hop-vine hypena, Hypena humuli, whose larve live on the leaves of the hop-plant and sometimes do considerable damage.

Hypenantron(hi-pe-nan'tron), n. [NL.(Corda, 1829), a typographical error for "Hypenantion, 1829), a typographical error for "πημεπαπιώπ, ⟨ Gr. ὑπεναντίος, opposite, ⟨ ὑπό, under, + a tooth. ἐναντίος, opposite.] A large genus of liver- hyperchlorhydria (hī'per-klōr-hī'dri-ä), n. worts of the family Marchantiaceæ, distin- [NL., ⟨ Gr. ὑπέρ, over, + chlor(in) + hydr(oomished from Marchantia chiefly by the inner gen) + -ia.] The presence of an abnormal

false involucre being split at maturityinto3-many-lan-ceolate lobes. There are 44 species growing on rocks or on the ground in nearly all parts of the world. hypencephalon (hi-

pen-sef'a-lon), n. [NL., ζ Gr. ὑπό, under, + ἐγκέφαλος, brain.] The infundibular region in the brain of the embryo; the cerebellum. Buck, Med. Handbook, II. 271.

hypenchyme (hip'-eng-kim), n. [Gr. - kim), n. [Gr. under, + NL. yma.] In emenchyma.] In em-bryol., primitive con-

hyperalimentation (hi'per-al'i-men-tā'shon),

n. The taking of food in excess of the ordinary needs of the body.

mally or excessively anabolic.

[The] ash and smoke . . . of the combustion of the products of a hyperanabolic activity.

G. S. Hall, Adolescence, L 486.

over,

typerbola, n.—Imaginary semi-axis of a hyperbola, the conjugate semi-axis, b.

hyperbolatoid (hi-per'bō-la-toid), n. [hyperbola + -ate¹ + -oid.] The solid cut out between two parallel planes by a straight line which intersects them and so moves as to

which intersects them and so moves as to return to its initial position.

Hyperbolic area, the lateral areas of the proestracum of the shell of Belemnites, situated on either side of the dorsal area and separated from it by the asymptotes. It is covered with very obliquely arched lines in a hyperbolic town—Hyperbolic cosine, function, involution, paraboloid. See *cosine, *function, *involution, *paraboloid.—Hyperbolic secant of x, sine of x. See *secant, *sine2.—Hyperbolic substitution, tangent of x. See *substitution, *tangent.

hyperbolo-parabolical (hī-per'bō-lō-par-abol'i-kal), a. Like the hyperbola or parabola,
or like both at once.

Shelley, Witch of Atlas, To Mary, st. a.
hypererethism (hī-per-er'e-thizm), n. Excessive irritability.

or the both at once.

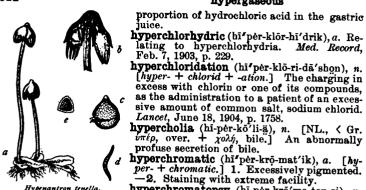
hyperbrachyuranic (hi-per-brak'i-ū-ran'ik),

a. [hyper- + brachyuranic.] Having an excessively short palate, that is, in craniom.,
having an excessively high palatomaxillary index.

hyperbulia (hī-per-bū'li-ā), n. [NL., \langle Gr. $v\pi\epsilon\rho$, over, $+\beta\sigma\nu\lambda\dot{\eta}$, will.] The possession of abnormally great will force.

hypercarbureted, hypercarburetted (hi-per-kär bū-ret-ed), a. Charged with carbon in excess, as illuminating-gas containing such a large proportion of carbon as to burn with a smoky flame.

hypercementosis (hī-per-sē-men-tē'sis), n. [Gr. $i\pi\ell\rho$, over, + NL. cæmentum, cementum, + -osis.] An overgrowth of the cementum of



Hypenantron tenella.

a, plant, two thirds natural size; b, cross-section of fruiting head, enlarged; c, capsule dehiscing; d, elater; e, spore. c, d, and e, magnified. (From Gray's "Manual of Botany.")

hyperchromatopsy (hī-per-krō'ma-top-si), n. [Gr. $\dot{m}\dot{e}\rho$, over, $+\chi\rho\dot{\omega}\mu\alpha(\tau-)$, color, $+\dot{b}\dot{\psi}\iota\varsigma$, view.] An anomaly of vision in which all obpeets appear to be colored.

hyperchromatosis (hi'per-krō-ma-tō'sis), n.

[hyperchromat-ic + -osis.] The state or condition of containing more than the normal amount of chromatin: said of certain cells.

Opposed to *hypochromatosis.

hypercomposite (hi'per-kom-poz'it), a. Excessively composite; composed of an excessive number of ingredients.

The receipts collected in . . . books for domestic practice are some of them so hyper-composite that even Tusser's garden could hardly supply all the indigenous ingredients.

Southey, Doctor, xxiv., P. L.

hand or foot.

hyperdicrotism (hi-per-dik'rō-tizm), n. [hyperdicrotism.] A condition of very pronounced dicrotism or rebounding of the pulse.

hyperdissyllable (hi'per-di-sil'a-bl), n. and a.

I. n. A word of more than two syllables.

II. a. Of more than two syllables: as, a hyperdissyllable participle. N. E. D.

hyperdistension (hi'per-dis-ten'shon), n. Ex-

hyperdistension (hi"per-dis-ten'shon), n. Extreme distension.

hyperdiuresis (hi"per-di-ū-rē'sis), n. [NL., \(\) hyper- \(\) diuresis.] Same as polyuria.

hyperdolichocephalic (hi-per-dol'i-kō-se-fal'ik), a. [hyper- + dolichocephalic.] In anthrop., having a cephalic index from 65.0 to 65.9.

Keane, Ethnology, p. 147.

hyperdolichopellic (hi-per-dol'i-kō-pel'ik), a. [hyper- + dolichopellic.] In anat., having a pelvic index more than 116, as found in anthropoid apes. Amer. Anthropologist. Oct.-Dec. poid apes. Amer. Anthropologist, Oct.-Dec., 1901, p. 713.

hyperdynamia (hī'per-dī-nam'i-Ḥ), n. [NL.,

 $\langle \operatorname{Gr.} i\pi \ell \rho, \operatorname{over}, + \delta i\nu a\mu c, \operatorname{power.}]$ Abnormally great nervous or muscular force.

hypereosinophilia (hī'perē'ō-sin-ō-fil'-ā), n. [NL., < hyper- + eosinophilia.] The presence in the blood of a larger number of eosinophilic leucocytes than is normal.

hyperequatorial (hī'per-ē-kwā-tō'ri-al), a. More than equatorial in temperature.

If you strip Peter, you will see a fellow
Scorched by Hell's hyperequatorial climate
Into a kind of a sulphureous yellow.
Shelley, Witch of Atlas, To Mary, st. 6.

sive irritability.

hyperesthete (hī-per-es'thēt), n. One who is affected with hyperesthesia; one who is abnormally sensitive.

hypereutectic (hi'per-ū-tek'tik), a. an excess of cementite over the eutectic ratio of 7 to 1; containing (as steel) more carbon in the form of cementite than 0.90 per cent.

The percentage of the excess of ferrite or cementite for hypo- and hyper-eutectic steels respectively.

Encyc. Brit., XXIX. 572.

hyperexcitability (hī'per-ek-sī-ta-bil'i-ti), n. An excessive degree of excitability.

hyperextension (hi'per-eks-ten'shon), n. extension of a joint beyond the straight line or the normal limit of such movement.

hypergas (hī'per-gas), n. See fourth state of

n. hypergaseous (hī-pėr-gas'ē-us), a. Of or per-taining to a hypergas or to the fourth state of matter (Crookes). See *matter.

His [Lobatchewsky's] first contribution to the theory of hyper-geometry is believed to have been given in a lecture at Kazañ in 1826.

Encyc. Brit., XXX. 306.

hyperglobulia (hī'per-glō-bū'li-ā), n. [NL., \langle Gr. $i\pi\ell p$, over, + L. globulus, globule.] A condition in which the red blood-corpuscles are in excessive amount.

presence in the blood of a large quantity of sugar. Also hyperglykemia. Also hypernormal hypernormal; above the normal. The temperature is reduced from 1-1.5 C hyperglykemia. Also hyper

G. S. Hall, Adolescence, II. 607.

hyperhexapodous (hī'per-hek-sap'ō-dus), a. Same as hyperhexapod.
hyperiastian (hī'per-ī-as'ti-an), a. [Gr. iπερμάστως, ⟨ iπέρ, over, + 'Ιάστως, Ionian, ⟨ 'Ιάς,
Ionian.] See mode¹, 7 (a) (1).
hypericaceous (hī-per-i-kā'shius), a. Belonging to or having the characters of the plant
family Hypericaceæ.

Hypericales (hī'per-i-kā'lēz), n. pl. [NL.
(Small, 1903), ⟨ Hypericum + -ales.] A large
order of dicotyledonous, chiefly choripetalous
plants. characterized by regular flowers (explants, characterized by regular flowers (except in the Violaceæ), usually numerous stamens, a compound ovary, and parietal placentæ (whence often called Parietales). It includes 31 families. They are mostly herbs, but some are shrubs, and there are a few tropical trees. The principal families are the Hypericaceæ, Theaceæ, Clusiaceæ, Cistaceæ, Violaceæ, Flacourtiaceæ, Turneraceæ, and Rannicesæ.

hyperinvolution (hi'per-in-vō-lū'shon), n. In physiol., involution which is excessive in either extent or rapidity. See involution, 7.
hyperisotonic (hi'per-i-sō-ton'ik), a. [hyper-+ isotonic.] Exerting greater osmotic pressure than an isotonic solution. Simon, Physiological Chem. p. 297

sure than an isotomic solution. Simon, I hystological Chem., p. 327.

hyperkeratosis (hi'per-ker-a-tō'sis), n. [NL., ζ Gr. inteρ, over, + κέρας (κερατ-), horn, + -osis.]

1. Hypertrophy of the horny layer of the epidermis.—2. Same as conical *cornea.

hyperlactation (hi'per-lak-tā'shon), n. Secretion of milk in excessive amount or for an abnormally prolonged period. Buck, Med. Handbook, II. 224.

hyperlethal (hī-per-lē'thal), a. More than sufficient to cause death: noting an amount of a poisonous drug. Philos. Trans. Roy. Soc. (London), 1898, ser. B, p. 269.

hyperleucocytosis (hī'per-lū'kō-sī-tō'sis), n. Same as leucocytosis.

hypermastia (hi-per-mas'ti-ä), n. [Gr. $i\pi\epsilon\rho$, over, $+ \mu a\sigma\tau\delta\varsigma$, breast.] Excessive development of the breasts.

hypermature (hī'per-mā-tūr'), a. Overripe, as a cataract in the eye. Buck, Med. Handbook, II. 720.

hypermegacranious (hi"per-meg-a-krā'ni-us), a. In craniom., having a skull of very large volume, over 2,280 cubic centimeters in males, over 1,960 cubic centimeters in females.

hypermegaprosopous (hī/pēr-meg-a-pros'ō-pus), a. In anthrop., having a facial skeleton whose volume exceeds 790 cubic centimeters for males, and 630 cubic centimeters for females. E. Schmidt.

hypermesaticephalic (hi'per-mes'a-ti-se-fal'-ik), a. In anthrop., having a mesaticephalic form of head, but approaching brachycephal-

hypermetropia, n.—Total hypermetropia, the sum of the latent and manifest hypermetropia.

as hypermesia.
hypernephroma (hī-per-nef-rō'mā), n.; pl.
hypernephromata (-ma-tā). [NL., < Gr. iπέρ,
over, + νεφρός, kidney, + -oma.] A tumor of
the adrenal gland.
hypernidation (hī'per-ni-dā'shon), n. [hyper+ nidation.] Formation in abnormal amount,
during menstruation, of a membrane analogous to the decidua. G. S. Hall, Adolescence,
1. 483.
hypernitrogenous (hī'ner-ni-troi'a-nus) g

are in excessive amount.

hyperglycemia (hī'per-glī-sē'mi-š), n. The presence in the blood of a large quantity of containing nitrogen in excess of the normal sugar. Also hyperglykemia.

Relatation of the relative structure of the normal sugar. Also hyperglykemia.

Relatation of the relative structure of the normal sugar. In excess In excess

The temperature is reduced from 1-1.5 C., but this is recovered from in 2-2 hours, and become[s] thereafter slightly hypernormal.

Philos. Trans. Roy. Soc. (London), 1902, ser. B, p. 101.

rical doublet consisting of two very thin semi-spherical single lenses.

hyperheredity (hi'per-hē-red'i-ti), n. The hypothetical accumulation or culmination of inheritance in the offspring of delayed mating.

Conversely, ... hyperheredity due to long delay of propagation may be a factor for accounting for ... some of the monsters of the geologic past.

G. S. Hall, Adolescence, II. 607.

hypernutrition (hi'per-nū-trish'on), n. Nutrition beyond the normal needs of the body.

Med. Record, Feb. 7, 1903, p. 227.

Hyperoartii (hi'per-ō-ār'ti-i), n. pl. [NL., < Gr. brep¢ov, upper room (palate), + &orwo, complete (entire).] The order or subclass of the Marsipobranchii, typified by the lampreys. In this group the nasal duct is a fluid-sac, not penetrating the palate.

dy perodapedon (hī'per-ō-dap'ē-don), n.
[NL., ⟨ Gr. ὑπέρ, above, + δάπεδον, pavement.] A genus of rhynchocephalian reptiles from



Left lateral view of the skull, as restored by Professor Huxley, from the Trias of Elgin. Or, orbit; t, infratemporal fossa. (Reduced.) (From Nicholson and Lydekker's "Palæontology.")

the Upper Tri-as of Europe and India, which attained a length of from 10 to 14 feet. The skull is triangular in form, flat on top, and bears a long curved premaxillary beak, and its upper dentition is spread over a compound triangular bone, termed the palato-maxilla, in several rows of pyramidal teeth with grooves between for the reception of the edges of the mandible.

mandible.

hyperope (hi'per-ōp), n. [Gr. iπέρ, over, + ων (ωπ-), eye.] Same as hypermetrope.

hyperorthognathous (hi 'per-ōr-thog' nāthus), a. [Gr. iπέρ, over, + ορθός, right, + γνάθος, jaw.] In anthrop., having a facial angle exceeding 90°.

hyperosmic (hi-per-os'mik), a. [Gr. $i\pi\ell\rho$, over, + $i\sigma\mu\dot{\eta}$, smel.] 1. Relating to or affected with hyperosmia, or abnormal acuteness of smell.-

+ δομή, smell.] I. Relating to or anected with hyperosmia, or abnormal acuteness of smell.—
2. Noting an acid, osmium tetroxid.
hyperosmotic (hī/per-os-mot'ik), a. Produced by or inducing increased rapidity of osmosis. Med. Record, Jan. 24, 1903, p. 121.
hyperosteogenic (hī/per-os-tē-ō-jen'ik), a. Pertaining to or affected with hyperosteogeny. G. S. Hall, Adolescence, I. 81.
hyperosteogeny (hī-per-os-tē-ō-j'e-ni), n. [Gr. wπέρ, over, + οστέον, bone, + -γενεια, < -γενης, -producing.] Hypertrophy of bone.
hyperostotic (hī-per-os-tot'ik), a. [hyperostosis or hypertrophy of bone.
Hyperostotic (hī-per-os-tot'ik), n. [hyperostosis or hypertrophy of bone.
Hyperostotic (hī-per-os-tot'i), n. pl. [NL., irreg. ⟨ Gr. iπερῶνν, upper room (palate), + ητητός, perforated.] The order or subclass of the Marsipobranchii, typified by the hagfishes. In this group the nasal duct is a tube with cartilaginous rings penetrating the palate.
hyperoxid(hī-per-ok-fsid), n. [hyper-+ oxid.] In chem., an oxid containing a larger proportion of oxygen than some other analogous compound

oxygen than some other analogous compound referred to: as, hyperoxid of lead, lead dioxid, PbO₂, in which the proportion of oxygen is larger than in litharge, PbO, or red lead, Pb₃

Hypergeometric equation. Same as Gauss's hypermicroprosopous (hi'pėr-mī-krō-pros'ō-pus), a. In anthrop., having a facial skeleton pus), a. In anthrop., having a facial skeleton whose volume is less than 460 cubic centimeters for males, and 400 cubic centimeters (also perperum, perperum, hyperperum, of for females. E. Schmidt.

Hypergeometry (hi'pėr-jē-om'e-tri), n. 1. for females. E. Schmidt.

Hypermesis (hī-pėr-mē'sis), n. [NL.] Same as hypermesis (hī-pèr-mesis), n. [NL.] Same as hypermesis.

Hypermesis (hī-pèr-nē'sis), n. [NL.] Same as hypermesis (hī-pèr-mesis), n. [NL.] Same as hyper the gold solidus. See solidus, 1.

In return he was to receive 1,000 silver marks, and as much land in the west, that is, in Epeiros, as will yield an annual revenue of 10,000 gold hyperpers.

J. B. Bury, in Jour. Hellenic Studies, VII. 312.

J. B. Bury, in Jour. Hellenic Studies, VII. 312.

hyperperfection (hi per-per-fek'shon), n.
[hyper- + perfection.] Perfection to excess;
perfection, in the parts or functions of animals
or of man, which is considered to be beyond
the limits of usefulness.
hyperperistalsis (hi per-per-i-stal'sis), n.
[NL., \(hyper- + peristalsis. \)] Abnormally
rapid peristalsis.
hyperphalangeal (hi per-fā-lan'jē-al), a.
[Gr. \(\nu \pi \epsilon \pi \epsilon

Embryos are hyperphalangeal, the fourth toe developing six phalanges.

H. Gadon, Amphibia and Reptiles, p. 441.

hyperphalangism (hi'per-fā-lan'jizm), n. [Gr. ὑπέρ, over, + φάλαγξ (φαλαγ)-), phalanx, + -ism.] The occurrence of more than three phalanges in a digit. There are as many as fourteen phalanges in the fingers of some cetaceans.

The number of the phalanges of the second and third digits (in whales) always exceeds the normal number in mammals, sometimes very considerably (hyperphalangum).

Flower and Lydekker, Mammals, p. 226.

With regard to hyperphalangism he agrees . . . that it is a result of retarded ossification and the formation of double epiphyses.

Jour. Roy. Micros. Soc., Feb., 1904, p. 55.

hyperphalangy (hi'per-fā-lan'ji), n. Same as *hyperphalangism.

hyperphoria (hi-per-fō'ri-i), n. [NL., ⟨ Gr. iπέρ, over, + -φορία, ⟨ -φορός, ⟨ φέρειν, earry.] A condition in which one visual axis tends to be inclined upward more than the other. *hypertropia.

hypertropia.
hyperphoric (hī-per-for'ik), a. [Gr. ὑπέρ, over.
+ -φορικός, ζ φέρειν, carry.] In petrog., noting changes in a rock or mineral produced by addition or subtraction of material.

addition or subtraction of material.

hyperphosphorescence (hi*per-fos-fō-res'ens),

n. [hyper- + phosphorescence.] The emission
of obscure rays, capable of affecting the photographic plate, by certain bodies that have been
previously exposed to light.

hyperphrenia (hi-per-frē'ni-ā), n. [NL., < Gr.

νπέρ, over, + φρήν, mind.] Extreme mental excitement.

citement.

hyperpiesis (hī'per-pī-ē'sis), n. [NL., 'Gr. 'πέρ, over, + πίεσις, pressure.] Increase of blood-pressure beyond the normal degree.

hyperpigmentation (hī'per-pig-men-tā'shon), n. An excess of pigmentation.

hyperpigmented (hī-per-pig'men-ted), a. Excessively pigmented. Buck, Med. Handbook, V. 485.

V. 485. hyperplane (hi'per-plan), n. [hyper-+plane1.] An (n-1)-dimensional plane, defined in n-di-mensional space by a homogeneous linear equa-

tion between its homogeneous coördinates.

hyperplasia, n. 2. In bot., an abnormal increase in the volume of cells, due to their unusual multiplication. Compare *hypoplasia.

hyperplasm (hi'per-piazm), n. 1. Same as hyperplasia.—2. Same as hyperinosis.

hyperplatyrrhine (hi-per-plat'i-rin), a. [hyper- + platyrrhine.] In anthrop., having a nasal index of the skull over 58.

hyperporosis (hi'per-po-ro'sis) n. INI. tion between its homogeneous coordinates.

nasal index of the skull over 35.

hyperporosis (hi'per - pō - rō'sis), n. [NL. \langle Gr. $i\pi\dot{e}\rho$, over, $+\pi\dot{\omega}\rho\omega\sigma c$, formation of callus: see porosis.] Excessive callus-formation in the healing of a broken bone.

hyperpraxia (hī-pēr-prak'sī-ā), n. [NL., ζ Gr. intρ, over, + πράξις, action.] Excessive ac-tivity. Baldwin, Diet. of Philos. and Psychol.,

larger than in litharge, PbO, or red lead, Pb3 O4: same as peroxid.

hyperoxygenate (hī-pėr-ok'si-jen-āt), v. t.; pret. and pp. hyperoxygenated, ppr. hyperoxygenia (hī-pėr-ok'si-jen-īz), v. t.; pret. and pp. hyperoxygenized, ppr. hyperoxygenizing.

hyperoxygenize (hī-pėr-ok'si-jen-īz), v. t.; pret. and pp. hyperoxygenized, ppr. hyperoxygenizing.

Same as *hyperoxygenized, ppr. hyperoxygenizing.

Same as *hyperoxygenized, ppr. hyperoxygenizing.

hyperpepsia (hī-pèr-pep'si-\(\bar\beta\)), n. [NL., \(\lambda\); \(\delta\); \(\delt

hyperpyretic (hi'per-pi-ret'ik), a. [Gr. υπέρ, over, + πυρετός, fever, + -ic.] Same as hyperpyrexial.

hyperpyrexic (hi'per-pi-rek'sik), a. Same as

dimensional space which is met by any line of S₄ in two points.

hyperstatic (hi-per-stat'ik), a. [hyper-+static.] In elect., noting that the potential of the static current is very high.

When near enough (one or two centimeters), a spark jumped from the electrode and impinged on the skin. The electric current then traversed the body, seeking the most convenient path to earth. To this spark I later gave the name "hyperstatic," to imply that the potential of the static current had been raised, and to the instrument the term "hyperstatic transformer" has been applied.

Med. Record, March 7, 1903, p. 363.

hyperstrophic (hī-per-strof'ik), a. [Gr. iπέρ, over, +-στροφος, 'στρέφειν, turn.] In snail-shells, reversed sinistrally or dextrally, or abnormally sinistral or dextral, as in Lanistes and Linacina; ultra-dextral or ultra-sinistral. Encyc. Brit., XXX. 795.

hypersurface (hi'per-ser'fas), n. [hyper-+
surface.] In space of n-dimensions, Sn, the
aggregate of points whose coordinates satisfy a rational homogeneous equation with inte-

gral coefficients.

gral coefficients.

hypertely (hi'per-tel-i), n. [NL. *hypertelia, < Gr. ὑπερτέλειος, beyond completeness or perfection, < ὑπέρ, over, + τέλειος, complete, perfect, < τέλος, end.] In biol., a development of protective resemblance which transcends usefulness: a term proposed by Brunner von Wattenwyl and generally adopted. For example, where the wing of a locustid resembles in color and shape the leaf of a tree on which the insect feeds, the further resemblance of certain clear spots on the wing to fungous spots on the leaf, or to spots nibbled by an insect, is hypertely.

hypertension (hī-per-ten'shon), n. [hyper-+ tension.] Extreme tension.

hyperthermal (hi-per-ther'mal), a. Same as hyperthermic.

hyperthermia (hī-per-thermia), n. [NL., \langle Gr. $i\pi\ell\rho$, over, + $\theta\ell\rho\mu\eta$, heat.] Same as hyperpurexia.

hyperthermic (hī-per-ther'mik), a. [Gr. $\dot{v}\pi t \rho$, over, + $\theta t \rho \mu \eta$, heat, + -ic.] Relating to a high temperature, or to a condition of great excess of heat; having a tendency to raise the

excess of near, naving a content temperature.

hyperthymia (hī-per-thī'mi-ā), n. [NL., < Gr. *ὑπερθυμία, ⟨ ὑπερθυμος, high-spirited, very angry, ⟨ ὑπερ, over, + θυμός, spirit, mind.]

Insanity marked by violence and an impulse to acts of cruelty.

hyperthyroidation (hī-per-thī-roi-dā'shon), n. [hyperthyroid + -ation.] Same as *hyperthy-

roidism.

hyperthyroidism (hī-pēr-thī'roi-dizm), n.
[hyper- + thyroid + -ism.] A condition of
over-activity of the thyroid gland. Also called
hyperthyroidation and hyperthyroidization.
Buck, Med. Handbook, IV. 396.
hyperthyroidization (hī'pēr-thī'roi-di-zā'shon), n. Same as *hyperthyroidism.
hyperthyrum (hī-pēr'thi-rum), n.; pl. hyperthyra (-rä). [L. hyperthyrum, the lintel or
cornice over a door; < Gr. ὑπέρθυρον, also ὑπερθύρων, the lintel over a door, < ὑπέρ, over, +
θύρα, door.] The lintel or the cornice over a
door.

cornice over a door; $\langle Gr. iπέρθυρον, also iπερθύρων, the lintel over a door, <math>\langle iπέρ, over, +$ θύρα, door.] The lintel or the cornice over a door.

hypertonia (hī-per-tō'ni-ā), n. [NL., $\langle Gr. hypnæsthesis, \langle Gr. iπνος, sleep, +$ είναερτονία, $\langle iπέρτονος, overstrained, \langle iπέρ, over, +$ τόνος, tension, strain: see tone!.] Extreme reflex irritability. Also called hypertonicity and hypertonus.

hypertonia (hip irritability) Also called hypertonicity and hypertonus.

hyportonia (hip irritability) Also called hypertonicity and hypertonus.

hypertonic (hi-pēr-ton'ik), a. [Gr. ὑπέρ, over, + τόνος, strain, tension, + -ic.] In phys. chem., having a greater osmotic pressure than some solution regarded as a standard. See *iso-tonic or the standard in the standard is see *iso-tonic or the standard in the standa tonic, 2.

In which the pressure is first increased, sometime before the cleavage, which takes place after the return from the hypertonic solution to the sea water.

Biol. Bulletin, April, 1904, p. 283.

hyperpyrexic (hī'pėr-pī-rek'sik), a. Same as hyperpyrexial.
hypersolid (hī-pèr-sol'id), n. [hyper-+ solid.]
A solid of four or more dimensions.
hyperspace, n. 2. Non-Euclidean space.

H. a. Pertaining to either genus of hyperspace, n-dimensional or non-Euclidean.

This strictly logical tendency has been much more influential in building up the hyperspace geometry and the modern theory of numbers than the layman recognizes.

Jour. of Philos., Psychol. and Sci. Methods, Feb. 4, 1904, pp. 20.

hypersphere (hī'pėr-sfēr), n. [Gr. vπέρ, over, + σφαίρα, sphere.] 1. Equidistantial surface.—

2. In four-dimensional space, the three-dimensional quadric spaces through the intersection of X₅=0 and S²₃, where S²₃ is a three-dimensional space which is met by any line of S₄ in two points.

hypertonict + -ity.] Same as *hypertonia.
hypertrophy, n.—Compensatory hypertrophy, increase in the muscular tissue of the heart by which it is enabled to maintain the circulation in spite of a defect in the valves: applied also to analogous conditions in other evalves: applied also to analogous conditions in other organs or parta.—Eccentric hypertrophy, increase in size of a hollow organ, due to greater thickness stroma, but not of the functional elements of the structure.—Functional hypertrophy, increase in size of a part following upon increased use.—Numerical hypertrophy, same as hyperplasia. Physiological hypertrophy, hypertrophy, hypertrophy, hypertrophy, hypertrophy, increase in size of a part following upon increased use.—Numerical hypertrophy, hypertrophy, hypertrophy, hypertrophy, hypertrophy, hypertrophy, hypertrophy, hypertrophy, increase in size of a part following upon increased use.—Numerical hypertrophy, increase in size of a part following upon increased use.—Numerical hypertrophy, hypertrophy, hypertrophy, hypertrophy, hypertrophy, hypertrophy, hypertrophy, hypertrophy, hypertrophy, hypertrophy,

hypertype (hi'per-tip), n. [Gr. $\dot{\nu}\pi\ell\rho$, over, + $\tau\dot{\nu}\pi\sigma\varsigma$, type.] An individual possessing the characteristics of a type in an excessive

Exaggerated specimens, hypertypes, as they are called, do however occur, but only in one or two respects; such are the Fijian Kai Colos, who are said to be "hypertypial Melanesians," because of the excessive dolichocephaly of their crania (Flower).

Keane, Ethnology, p. 12.

hyperuresis (hī'per-ū-rē'sis), n. [Gr. υπέρ, over, + ουρησις, urination.] Same as polyuria. hypervenosity (hī'per-vē-nos'i-ti), n. [hyper-venosity.] An abnormal development of the venous system. Buck, Med. Handbook, III. 754.

venous system. Buck, Med. Handbook, III. 754.

hypha, n.—Woronin's hypha, the peculiar curved hypha, crowded with protoplasm, which is found in certain fungi at the base of the forming perithecium before the development of asci.

hyphen, n. 3. The symbol +, = plus. [Rare.]

hypho (hi'fō), n. [cap. and l. c.] An abbreviation of Hyphomycetes or *hyphomycete.

The largest order of the fungi imperfect is the group of fungi often known as the Hyphomycetes, and called "Hyphos" for short.

Underwood, Moulds, Mildews and Mushrooms, p. 74.

Hypholoma (hi-fō-lō'mā), n. [NL., < Gr. ὑψή, web, + λώμα, fringe.] A genus of agaricaceous fungi having fleshy pilei or caps and a membranous or cobweb-like veil, part of which usually remains attached to the margin of the pileus. The spores are dark or purplish-brown, and the stipe without a distinct annulus. The species are numerous growing on the ground or decayed wood. H. fasciculare is a common species with a tawny pileus said to cause a root-rot of the raspberry in Australia.

hyphomycete (hi-fō-mi'sēt), n. Any member of the Hyphomycetes.

iπθ, unco., + -ic.] In bot., hydrophility nation taking place below the surface of water.
hypisotonic (hip-ī-sō-ton'ik), a. [Gr. iπθ, under, + loos, equal, + τόνος, tension, + -ic.]
Same as *hypotonic, 1.
Hypleurochilus (hip'iū-rō-ki'lus), n. [NL., so called in allusion to the Y-shaped lateral lips; ⟨ iv, the letter Y, + πλευρά, side, + χείλος, lip.] A genus of small blennies found in tropical America, having the gill-openings restricted to the sides and with the body naked.
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restricted to the sides and with the body naked hypo.
re

As a hypnagogue, the reading [to the British troops in 1796] of Pye's translation of Tyrteeus seems to have held its own with that of the Articles of War in our own day.

N. and Q., 10th ser., III. 346.

hypnal (hip'nal), n. [Gr. $i\pi\nu\sigma\varsigma$, sleep, $+-al^3$.] A trade-name for a compound of antipyrin

hypnody (hip' nō di), n. [F. hypnodie, < Gr. iπνωδία, sleepiness, < ὑπνώδης, sleepy, < ὑπνος, sleep, + εἰδος, form.] An excessively long resting-period in the life of an insect, or the condi-

tion of the insect during that period. The larve of the host and of the parasite are thus both in that state of somnolence which I have called "hyp-

hypobenthos

nodie"; on the other hand, the chrysalis of the former and the nymph of the latter are both active and capable of developing the most extraordinary energy in order to escape from their prison.

Annals and Mag. Nat. Hist., Oct., 1904, p. 311.

hypnoid (hip'noid), a. [Gr. ὑπνος, sleep, + elog, form.] Resembling hypnosis; akin to the hypnotic state.

Some, again, are now seeking to vindicate or probabilize the fact of inspiration... by a new scrutiny of not only genius but of ecstatic and hypnoid states in which the ordinary mental processes are quickened and exalted.

Amer. Jour. Retig. Psychol. and Education, [May, 1904, p. 2.

By the term hypnoid I indicate the coexistence of two or more fully independent functioning constellations of moments-consciousness, such as is presented in the phenomena of automatic writing and of hysteria.

B. Sidis, Psychol. of Suggestion, p. 234.

hypnoidal (hip-noi'dal), a. [hypnoid + -all.] Resembling sleep or hypnosis.—Hypnoidal state, a pathological condition in which fragments of unrecognized past experience rise to clear consciousness from the subconscious life. See the extract under *hypnoidic*

hypnoidic (hip-noi'dik), a. See the following phrase.— Hypnoidic state, a pathological condition in which more or less systematized experiences, implying personality, rise spontaneously from the subconscious life into clear consciousness.

into clear consciousness.

While the hypnoidic states form complete systems of experiences, whole personalities, the hypnoidal states are mere bits, chips of past experiences.

B. Sidis, Psychol. of Suggestion, p. 239.

hypnoidization (hip-noi-di-zā'shon), n. [hypnoid + -ize + -ation.] A method of inducing light hypnosis. See the extract.

light hypnosis. See the extract.

The method which I term hypnoidization... consists in the following procedure: The patient is asked to close his eyes and keep as quiet as possible, without, however, making any special effort to put himself in such a state. He is then asked to attend to some stimulus, such as reading or singing. When the reading is over, the patient, with his eyes still shut, is asked to repeat it, and tell what came into his mind during the reading, during the repetition, or after it. Sometimes ... the patient is simply asked to tell the nature of ideas and images that entered into his mind at that time or soon after. This method, simple as it is, I find to work wonders, especially in cases of annesia. B. Sidis, Psychol. of Suggestion, p. 224.

of annesia. B. Statis, Psychol. of Suggestion, p. 224.

hypnoleptic (hip-nō-lep'tik), a. [Gr. ὑπνος, sleep, + ληπτικός, ⟨λῆψις, taking.] Characterized by the oncoming of hypnotic sleep.

Hypnoleptic state, an intermediate state, of short duration, which occurs between the two phases of double consciousness or double personality.

This intermediate state was an attack; it was sudden in its onset, and may be termed hypnoleptic.

B. Sidis, Psychol. of Suggestion, p. 227.

hypnologic (hip-nō-loj'ik), a. Same as hypnological.

hypnosophist (hip-nos'ō-fist), n. One versed in hypnosophy or the science of sleep and its nhenomena.

of the Hyphomycetes.

hyphomycetic (hī/fō-mī-set'ik), a. Same as hypnosophy (hip-nos'ō-fì), n. [Gr. ὑπνος, sleep, hyphomycetous.

hyphydrogamic (hip-hī-drō-gam'ik), a. [Gr. ὑπό, under, + ὑδωρ, water, + γάμος, marriage, + -ic.] In bot., hydrophilous, with the pollination taking place below the surface of the water.

hyplotonic (hip-ī-sō-ton'ik), a. [Gr. ὑπό, hypo², n. 2. In the manufacture of india-rub under, + lace, equal + τάμος tension + -ic.]

p. 120.

hypobenthic (hī-pō-ben'thik), a. [hypobenthos + -ic.] Same as *hypobenthonic.

hypobenthonic (hī'pō-ben-thon'ik), a. [hypobenthos + -on-ic.] Of or pertaining to the animals of the deep sea, or hypobenthos, below the 500-fathom line. See *benthos, *hypobenthos. Encyc. Brit., XXXIII. 935.

thos. Encyc. Brit., XXXIII. 935.

hypebenthos (hi-pō-ben'thos), n. [NL., \langle Gr. $i\pi\delta$, under, $+\beta\epsilon i\theta\sigma_s$, depth (see *benthos).]

The animals that live upon or in the bottom of the deep sea, below the 500-fathom line, considered collectively: contrasted with the epibenthos, or fauna and flora of the bottom in shallow water, and the mesobenthos, or the inhabitants of the bottom between 100 and 500 inhabitants of the bottom between 100 and 500 fathoms; the abyssal benthos. One of the most remarkable results of the exploration of the deep sea is the discovery that the bottom, even under more than five niles of water, supports a rich fauna of characteristic animals, living under conditions which had long been supposed to be incompatible with life. Their bodies support a pressure which, in the greatest depths, is more

than five tons to the square inch, and they live in water that is always near the freezing-point, in total darkness except for the light which they themselves produce by means of luminous organs. Since plants are completely absent in the depths, the only ultimate source of the food of these animals is the rain of dead plants and animals which is constantly falling upon them from the higher levels. See *benthos, *epibenthos, *mesobenthos.

In this zone, which extends from about 500 fathoms to the greatest depths (which may in some cases exceed 5,000 fathoms, or more than 5½ miles), the temperature at any given point is uniform throughout the year. The darkness is probably absolute; for food the animals are dependent upon each other and upon the incessant rain of dead plankton from higher levels; the pressure may be anything between half a ton and five tons per square inch. To the fauna which lives in these remarkable circumstances the name hypobenthos may be applied.

Encyc. Brit., XXXIII. 933.

Encyc. Brû., XXXIII 933.

hypobulia (hī-pō-bū li-ā), n. [NL., ⟨ Gr. ὑπό, under, + βουλή, will.] Impaired will-power.

hypocarp (hī'pō-kārp), n. [NI. hypocarpium, ⟨ Gr. ὑπό, under, + καρπός, fruit.] An enlarged growth of the disk and peduncle beneath a fruit. See Anacardium (with cut).

hypocarpium (hī-pō-kār'pi-um), n.; pl. hypocarpia (-ā). Same as *hypocarp.

hypocathartic (hī'pō-ka-thār'tik), a. [hypocathartic.] Laxative.

hypocentrum (hī-pō-sen'trum), n.; pl. hypocentra (-trā). [Gr. ὑπό, beneath, + κέντρον, center.] Ordinarily the same as intercentrum, a bone wedged in between the centra of the vertebræ: usually more or less wedge-shaped,

vertebræ: usually more or less wedge-shaped, and appearing on the ventral side of the vercolumn, but in the mud-fish Amia of tebral column, but in the mud-fish Amia of about the same size as the true centrum. It is an important component of the vertebre in the extinct Stegocephala. By some authorities the chevron-bones of mammals are considered as developed from the hypocentra.—

Hypocentrum arcuale, an arched band of bone on the under, ventral, side of the notochord, formed by the union of two arcualia: the basiventralia of Gadow.—Hypocentra pleuralia, a pair of bony plates, or arcualia, which lie on the under side of the notochord behind the hypocentrum arcuale: the 'interventralia' of Gadow. Some confusion exists in the use of the term hypocentrum, but it is ordinarily as given above.

hypocephalid (hī-pō-sef'a-lid), n. and a. I. n. A member of the coleopterous family Hypo-

member of the coleopterous family Hypo-

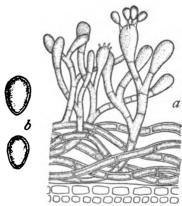
cephalidæ.

II. a. Of or belonging to the family Hypocephalidæ.

hypochlorhydria (hi'pō-klōr-hi'dri-ä), n. [Gr. $v\pi\dot{o}$, under, + chlor(in) + hydr(ogen) + -ia.]

nus. See *Hypochnus.

Hypochnus (hi-pok'nus), n. [NL. (Ehrenberg, 1818), $\langle Gr. \dot{\nu}\pi \delta, under, + \chi \nu \delta o c, \chi \nu o \dot{\nu} c, down.]$ A genus of hymenomycetous fungi, type of the family Hypochnaceæ, having the



Hypochnus Solani.

Hypocreales. See *Hypocreales. *# Hypogastrodidymus (hi*pō-gas-trō-did'i-mus), spores. Much enlarged. (From Engler and Prantl's "Pflanzen familien.")

hypocreales. See *Hypocreales. Perhappens family Hypogastrodidymus (hi*pō-gas-trō-did'i-mus), spores. Much enlarged. (From Engler and Prantl's "Pflanzen familien.")

hypocreales. See *Hypocreales family Hypocreales family Hypocreales. See *Hypocreales and *Hypocreales family Hypocreales. See *Hypocreales family Hypocreales family Hy

hypochordal (hī-pō-kôr'dal), a. [Gr. $i\pi\delta$, under, $+\chi op\delta\eta$, cord, $+-al^{1}$.] Lying beneath, on the ventral side of the spinal cord.

A second or hypochordal arch connected with the bases of the neural and visceral arches, lying on the ventral side of the perichordal elements. Encyc. Brit., XXV. 397.

hypochromatic (hī'pō-krō-mat'ik), a. [hypo-+ chromatic.] Containing less than the normal amount of chromatin or than the normal number of chromosomes: said of certain cell-

hypochromatosis (hī'pō-krō-ma-tō'sis), n. [NL., \langle Gr. $v\pi\delta$, under, $+\chi\rho\bar{\omega}\mu a(\tau)$, color, $+\sigma sis$.] 1. The state or condition of containosis.] 1. The state or condition of containing less than the normal amount of chromatin: hypocystic (hī-pō-sis'tik), a. [Gr. iπδ, under, said of certain cells: opposed to *hyperchroma-tosis.—2. A pathological condition in which there is an abnormally small amount of pigment in the skin or other structures. Also called hypochromia.

hypochromia (hī-pō-krō'mi-ä), n. [NL., ⟨Gr. iπδ, under, + χρῶμα, color.] Same as *hypochromia(hī-pō-krō'mi-š), n. [NL., ⟨Gr. iπδ, under, + χρῶμα, color.] Same as *hypochromias, hypocinesis, n. See *hypokinesis.

hypocinesis, n. See *hypokinesis.

hypocistis (hī-pō-sis'tis), n. [NL. (Adanson, 1763, adopted from Tournefort, 1700), ⟨Gr. iπομπαίωτικ, tκῶτος, the Greek name of the plant, ⟨iπο, beneath, + κῶτος, the rock-rose, on the roots of which the plant is often parasitic.] A genus of dicotyledonous plants of the family cross beneath it. Compare *autodermalium cross beneath it. Compare *autodermal

called *hypochromia*. **hypochromia** (hī-pō-krō'mi-ä), n. [NL., ⟨Gr. ὑπό. under. + χοωμα, color.] Same as *hypo-

chromatosis.

hypocinesis, n. See *hypokinesis.

Hypocistis (hī-pō-sis'tis), n. [NL. (Adanson, 1763, adopted from Tournefort, 1700), ζ Gr. ὑποκιστίς, the Greek name of the plant, ζ ὑπο, beneath, + κίστος, the rock-rose, on the roots of which the plant is often parasitic.] A genus of dicotyledonous plants of the family Rafflesiaceæ. See Cytinus.

Hypoclydonia (hī'pō-kli-dō'ni-ä), n. [NL., ζ Gr. ὑπό, under, + κλύδων, wave, billow.] A genus of deep-water fishes of the family Apogonidæ.

Apogonidæ.

Apogonidæ. **Hypocoma** (hī-pok'ō-mā), n. [NL., < Gr. ὑπό, under, + κόμη, hair.] The typical genus of the family Hypocomidæ. Gruber, 1884. **Hypocomidæ** (hip-ō-kom'i-dē), n. pl. [Hypocoma + -idæ.] A family of freely moving, unattached Suctoria having a permanently ciliated ventral surface and one suctorial tentrals and reproducing by cross-division. cinated ventral surface and one suctorial tentacle, and reproducing by cross-division. The typical and only genus is Hypocoma, found as an ectoparasite on Zoothamnium, another protozoan. hypocondylar (hī-pō-kon'di-lār), a. [Gr. iπδ, under, + κόνδυλος, condyle.] Situated below a condyle. Buck, Med. Handbook, IV. 260. hypocone (hī'pō-kōn), n. [Gr. υπδ, under, + κῶνος, a cone.] A cusp or point developed

hypochloria, the gastric juice of an amount of hydrochloric acid less than normal.

hypochlorin (hi-pō-klō'rin), n. [Gr. iπδ, under, + λλωρός, green, + -in².] A term used by Pringsheim to designate an organic substance found in cells containing chlorophyl.

hypochlorization (hi'pō-klō-ri-zā'shon), n. [hypo-klō-ri-zā'shon), n. [hypo-klorid], n. [Gr. iπδ, under, + κῶνος, cone, + -id.] A point or cusp developed on the postero-external angle of a lower molar. See cut under *tooth, l. hypoconule (hi-pō-kon'ūl), n. [Gr. iπδ, under, + κῶνος, cone], hypoconule (hi-pō-kon'ūl), n. [Gr. iπδ, under, + κῶνος, cone] A small or intermediate cusp, developed on the cingulum of the posterior portion of an upper

moter.

hypoconulid (hi-pō-kon'ū-lid), n. [hipoconule +-id.] A small intermediate cusp or cuspule, developed on the cingulum of the posterior portion of a lower molar. See cut under

hypocorism (hī-pok'ō-rizm), n. [Gr. ὑποκό-ρομα, a coaxing name, a diminutive, ζ ὑποκο-ρόζεσθα, use childish names, use coaxing language, ζ ὑπό, under, + κόρος, m., κόρη, f., child.] A pet name.

hypocotyleal (hi'po-kot-i-le'al), n. [Gr. $i\pi\delta$, under, $+ \kappa\sigma\tau i\lambda\eta$, cup, socket, $+ -al^1$.] The bone to which the lower jaw is attached in the

teleost fishes; the quadrate bone. Starks, Synonymy of the Fish Skeleton, p. 513. **Hypocrea** (hi-pok'rē-ä), n. [NL. (Fries, 1825), Gr. ὑπό, under, + κρέας, κρέα, flesh.] A large genus of pyrenomycetous fungi having

Hypocreales. See *Hypocreales.

hypocreaceous (hī-pok-rē-ā'shius), a. Pertaining or belonging to the fungus family Hypocreaceæ. See *Hypocreaceæ and *Hypo-

bright-colored and fleshy, or tough and having the perithecia buried in or seated upon a stroma. See *Hypocrea and *Hypomyces.

stroma. See *Hypocrea and *Hypomyces.
hypocrit, n. A simplified spelling of hypocrite.
hypocritism (hip'ō-krit-izm), n. The conduct
of a hypocrite; habitual hypocrisy.
hypocrystalline (hī-pō-kris'ta-lin), a. [Gr.
νπό, under, + Ε. crystalline.] In petrog.,
partly crystalline, partly glassy: a texture
frequently developed in volcanic lavas. Also
hemicrystalline. See *merocrystalline.
hypocycloid + -all.] Of the nature of a hypocycloid.
hypocystic (hī-nō-sis'tir) a [Gr. i-/

cross beneath it. Compare *autodermalium

and hypodermale.

Hypodermataceæ (hī'pō-der-ma-tā'sē-ē), n.
pl. [NL., < Hypoderma(t) + -aceæ.] A family
of ascomycetous fungi named from the genus

or ascomycetous rung; named from the genus Hypoderma. See *hypoderma, 4.

Hypodermella (hi'pō-der-mel'ā), n. [NL. (Tubeuf, 1885), < Hypoderma (see *hypoderma, 4) + dim. -ella.] A genus of ascomycetous fungi closely related to Hypoderma, but differing in bening 4 cross of the second science of the second secon ing in having 4-spored asci and unicellular spores. H. Laricis is a parasitic species which attacks the needles of the European larch, Larix Europea. See

*hypoderma, 4.

Hypodermic impregnation, needle. See *impregnation, *needle.

hypodermoclysis, n. 2. Subcutaneous injection of large quantities of a physiological salt solution in the treatment of shock and of certain acute affections.

certain acute affections.

hypodynamic (hī"pō-dī-nam'ik), a. [Gr. ὑπδ, power.] Of diminished under, + δίναμις, power.] power; weak.

hypo-eliminator (hi'pō-ē-lim'i-nā-tor), n. [hypo2, n., 1, + eliminator.] In photog., any solution used to remove the last traces of er, solution used to remove the last traces of desodium hyposulphite (hypo) from plates or a prints after fixing. Zinc hypochlorite, alum, hydrogen peroxid, etc., can be employed.

Nature, Aug. 14, 1902, p. 368.

A hypo-ellipsoid (hi*pō-e-lip'soid), n. [hypo-+
the elipsoid.] In geom., a curve described by a point on the circumference of a circle or ellipse which rolls upon the inside of an onellipse.

ellipse.

hypo-eosinophilia (hī'pō-ē-ō-sin-ō-fil'i-ā), n. [hypo- + eosinophilia.] A diminution in the number of the eosinophilic leucocytes of the

blood.

hypo-esophoria (hī'pō-ē-sō-fō'ri-š), n. [NL., ζ Gr. iπδ, under, + ἐσω, within, + -φομα, ζ -φορος, ζ φέρειν, bear.] Inward and downward deviation of the visual axis.

hypoesthetic, hypoesthetic (hī'pō-es-thet'-ik), a. Same as hypæsthesic. Nature, Oct. 15, 1903, p. 570.

hypo-eutectic (hī'pō-ū-tek'tik), a. Containing more than 0.90 per cent. carbon in the form of ferrite: having an excess of ferrite over the

of ferrite; having an excess of ferrite over the eutectic ratio of 7 to 1: said of steel.

They [steels] are called hyper-eutectic or hypo-eutectic according as this excess is cementite or ferrite.

Encyc. Brit., XXIX. 572.

large genus of pyrenomycetous fungi having more or less cushion-shaped fleshy stromata in which the perithecia are embedded. The spores are hyaline and 2-celled, separating at the septum at maturity. The species are widely distributed and occur mostly on decaying wood.

Hypocreaces (hī-pok-rē-ā'sē-ē), n. pl. [NL., \ Hypocreaces (hī-pok-rē-ā'sē-ē), n. hypogæic, a. Same as *hypogeic.
hypogastrale (hī'pō-gas-trā'lē), n.; pl. hypogastralia (-li-ä). [NL., ζ Gr. ὑπό, under, + γαστήρ (γαστρ-), belly.] A sponge-spicule whose tangential rays are contained in the

to that deep seated portion of the earth which is not open to observation. Dana, Manual of Geol. (4th ed.), p. 118.

hypogeic² (hi-pō-jē'ik), a. [hypogæa (see def.) + -ic.] Derived from Arachis hypogæa.

— Hypogeic acid, a colorless compound, CieHsoo, said to occur as a glyceride in peanut-oil, Arachis hypogæa, and formed by the oxidation of axic acid. It crystallizes in aggregates of needless melting at 33°C.

hypogenesis (hi-po-jen'e-sis), n. [NL., < Gr. iπό, under, + γένεσις, generation.] That form of reproduction in which the product of each of reproduction in which the product of each egg or each bud is a single organism like the parent; direct development without alternation of generations, as contrasted with metagenesis (which see). Encyc. Brit., XXVII. 131. hypogenetic (hī-pō-jō-net'ik), a. [hypogenesis (-et-) + -ic.] Of or pertaining to development by hypogenesis. Encyc. Brit., XXVII. 131. hypogenic (hī-pō-jen'ik), a. [Gr. iπō, under, + -γενής, -produced, + -ic.] Originating in the depths of the earth: applied to volcanoes, earthquakes, and kindred phenomens.

A discussion of the movements along this and other fault lines in Macedonia, and of changes in level which are apparently in progress at Saloniki and its neighbourhood, leads to the conclusion that hypogenic geological processes have in this part of the world a marked activity. Nature, Dec. 17, 1903, p. 160.

hypoglobulia (hi'pō-glō-bū'li-š), n. [NL., ζ Gr. νπό, under, + L. globulus, globule.] A pathological condition in which the blood-corpuscles are decreased in number.

Hypohomus (hi-pō'hō-mus), n. [NL., erroneously formed (intended to mean 'not quite uniform') $\langle Gr. \nu\pi\delta, under, + \delta\mu\delta\varsigma, the same.$] A genus of darter-fishes of the family Persids found in the upper Tennessee river. E aurantiacus is the common species.

hypohyal (hi-pō-hi'al), n. [Gr. $i\pi \delta$, under, + E. hyal.] In fishes, one of two pairs of bones situated on each side of the anterior end of the hyoid arch. They are attached one above the other to the ceratohyal. Between the superior pair is the glossohyal and between the inferior pair is the urohyal.

hypohyaline (hī-pō-hī'a-lin), a. [Gr. ὑπό, under, + ὑάλνος, of glass.] Partly glassy; semivitreous: noting igneous rocks which are partly glassy, partly crystalline. See *merocrystalline.

crystalline.

hypo-inosemia (hī'pō-in-ō-sē'mi-ā), n. [Irreg. hypo-osmious (hī-pō-os'mi-us), a. [hypo-smious (hī-pō-os'mi-us), a. [hypo-smious (hī-pō-os'mi-us), a. [hypo-osmious (hī-pō-os'mi-us), a. [hypo-smious (hī-pō-os'mi-us), a. [hypo-smious (hī-pō-os'mi-us), a. [hypo-osmious (hī-pō-os'mi-us)

hypo-iodous (hī-pō-ī'ō-dus), a. Noting an acid

and is directed backward from the inferior part of the pelvis: found in reptiles.

hypokinesia (hī'pō-ki-nē'si-a), n.

*hypokinesis.

hypokinesis (hī'pō-ki-nē'sis), n. [NL., < Gr. iπō, under, + κίνησις, motion.] Diminished power of movement; muscular weakness. Also hypocinesis, hypokinesia.
hypolemniscus (hī'pō-lem-nis'kus), n.

δπολημνίσκος, ζ ὑπό, under, + λημνίσκος, a band: see lemniscus.] A critical mark (+), namely, a lemniscus (+) with a dot below only.

hypoleucocytosis (hi'pō-lū'kō-sī-tō'sis), n. [NL., \langle Gr. $\nu\pi\delta$, under, + leucocyte + -osis.] A diminution in the number of the leucocytes

of the blood. See leucocytosis. hypolithic (hī-pō-lith'ik), a. [Gr. $b\pi\phi$, under, $+\lambda i\theta o_5$, stone, + ic.] In bot., growing under

hypologism (hī-pol'ō-jizm), n. [Gr. $i\pi b$, under, + $\lambda \alpha \gamma \iota \sigma \mu b c$, reckoning, calculation.] The relation of four magnitudes when the ratio of the first to the second is less than the ratio of the third to the fourth.

hypomania (hi-pō-mā'ni-ā), n. [Gr. ὑπό, under, nypomania (hī-pō-mā'ni-ā), n. [Gr. $i\pi\delta$, under, $+\mu a\nu ia$, madness.] A mildly maniacal state of short duration. Buck, Med. Handbook, V. 91. hypomere, n. 2. In embryol., the portion of the mesoderm from which the walls of the pleuroperitoneal cavity of vertebrates arise. hypomnesis (hī-pōm-nē'sis), n. [NL. (cf. Gr. $i\pi\delta$) under, $i\pi\delta$) under, $i\pi\delta$) under, $i\pi\delta$) produced, along with phosphorous and phosphoric acids, by the slow oxidation of phosphorus in moist air at ordinary temperatures.

to that deep-seated portion of the earth which hypomnestic (hī-pōm-nes'tik), a. Relating to is not open to observation. Dana, Manual of Geol. (4th ed.), p. 118.

hypogeic² (hī-pō-jē'ik), a. [hypogæa (see def.) + -ic.] Derived from Arachis hypogæa.

- Hypogeic acid, a colorless compound, C_{1e}H₃₀O₂, said to occur as a glyceride in peanut-oil, Arachis hypogæa, and formed by the oxidation of axic acid. It crystallizes in aggregates of needles melting at 33° C.

- Celled. The species are mostly parasitic upon agariance of needles melting at 33° C.

- The account function of the earth which hypomnestic (hī-pōm-ren'ik), a. [Gr. iπ6, under, + φρίπν, the diaphragm.] Situated below the diaphragm.] Situated below the diaphragm.

- Hypomyces (hī-pom'i-sēz), n. [NL. (Tulasne, the diaphragm.] hypophysin (hī-pof'i-sin), n. [hypophysis + -in².] The dried and powdered hypophysis thecia seated upon or embedded in a thin stroma, and the spores elongate, pointed, and 2-celled. The species are mostly parasitic upon agariance of needles melting at 33° C.

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- Celled. The species are mostly parasitic upon agariance of needles melting at 33° C. 2-celled. The species are mostly parasitic upon agaricaceous fungl. Conidia and chiamydospores are frequently found. H. Lactifuorum occurs on species of Lactarius.

nound. H. Lactifluorum occurs on species of Lactarius.

hypomyotonia (hi'pō-mi-ō-tō'ni-š), n. [NL., ζ Gr. νπό, under, + μνς, musele, + τόνος, tone.]

Diminished tone in the museles.

hypomyxia (hi-pō-mik'si-š), n. [NL., ζ Gr. νπό, under, + μν̄-ā, mueus.]

Diminished secretion of mueus.

cretion of mucus.

hyponoëtic (hī'pō-nō-et'ik), a. [Gr. iπό, under, + νοητικός, < νόησις, understanding.] In psychol., unconsciously logical: opposed to *noëtic or consciously logical.

The conception of "distance between" answers, then, to what we have called a hyponoetic relation, and this is plainly distinct from the analysis of discrete complexes, with which, as said, noetic comparison is alone concerned.

Ricus. Brit. XXXII.64. Encyc. Brit., XXXII. 64.

hyponomic (hī-pō-nom'ik), a. [hyponome + -ic.] Of or pertaining to the hyponome.—Hyponomic sinus. See *brachial sinuses.
hyponychial (hī-pō-nik'i-al), a. [Gr. ὑπό, under, + ὁνυξ (ὑνυχ-), nail, + -ial.] Situated beneath a nail; subunguial.
hyponychon (hī-pon'i-kon), n.; pl. hyponycha (-kä). [NL., ⟨ Gr. ὑπό, under, + ὁνυξ (ὑνυχ-), nail.] A collection of blood beneath a nail.

hyponychum (hī-pon'i-kum), n.; pl. hyponycha (-kš). [NL., $\langle \text{Gr. } i\pi 6, \text{ under, } + \delta \nu \nu \xi \ (\delta \nu \nu \chi -), \text{nail.}$] The nail-bed.

hyponym (hi'pō-nim), n. [Gr. $i\pi\delta$, under, + $\delta vo\mu a$, $\delta vv\mu a$, name.] A systematic name applied to an undetermined group of animals or plants, and thus not fully or finally established.

I have listed 485 names that were proposed between 1753, the first edition of Linneus's 'Species Plantarum,' and 1821, including the first volume of Fries's 'Systema Mycologicum.' Of these, 242, or one half, are to be rejected for various reasons. Some are hyponyms, never naving been associated with a recognizable binomial species.

Science, March 25, 1904, p. 508.

nypo-iodous (hī-pō-i'ō-dus), a. Noting an acid analogous to hypochlorous acid, which has probably been obtained in solution but is not known in the pure state. **hypo-ischium** (hī-pō-is'ki-um), n.; pl. hypo-ischia (- $\frac{1}{2}$). A rod of bone or cartilage which arises between the distal ends of the ischia and is directed by selected by the cheeks forming a continuous marginal plate in the cephalon and by the absence of compound eyes. It is regarded as the property of the group and is property and in primitive order of the group and is property. sence of compound eyes. It is regarded as the primitive order of the group, and is represented by such genera as Agnostus and Trinucleus.

hypopepsia (hī-pō-pep'si-ā), n. [NL., ζGr. υπό, under, + πέψις, digestion.] Weak digestion. hypopepsy (hi'pō-pep-si), n. [NL. hypopep-sia.] Same as *hypopepsia.

hypopeptic (hī-pō-pep'tik), a. Relating to or affected with hypopepsia.

hypophalangia (hī'pō-fā-lan'ji-ā), n. The state or condition of having less than the normal number of phalanges in a digit: contrasted with *hyperphalangism.

In man, a condition of hypophalangia (two-jointed instead of three-jointed digits) is dominant over the normal condition.

Pop. Sci. Mo., July, 1905, p. 196.

hypophare (hī'pō-fār), n. [Gr. ὑπό, under, + φāρος, a web (†).] In the rhagon stage of development of Demospongiæ, the lower region of the body, devoid of chambers or pores. Compare *spongophare. Lankester.

hypophonic (hī-pō-fon'ik), a. Same as *hypophonous.

hypophonous (hī-pof'ō-nus), a. [Gr. $i\pi b$, under, $+\phi \omega \nu \eta$, sound.] In music, subordinate or

or float in the water immediately above the bottom, considered collectively and in contrast with those that creep or run over the bottom;

with those that creep or run over the bottom; the bathybic plankton. See *plankton, *benthos. Nature, Nov. 5, 1903, p. 23.

hypoplanktonic (hi/pō-plangk-ton'ik), a. Of or pertaining to the hypoplankton; floating or swimming in the water below 100 fathoms.

hypoplasia (hī-pō-plā'si-š), n. [NL., < Gr. iπό, under, + πλάσις, formation.] Deficient growth or atrophy of a part through excessive destruction or defective formation of sive destruction or defective formation of

hypoplasm (hī'pō-plazm), n. [NL., $\langle Gr. i\pi \delta,$ under, $+\pi\lambda i\sigma\mu a$, anything formed.] 1. Same as *hypoplasia.—2. Same as hypinosis.

hypoplastic (hi-pō-plas'tik), a. [Gr. $i\pi \delta$, under, $+\pi \lambda a \sigma r \delta$, formed, +-ic.] Relating to or characterized by hypoplasia. Buck, Med. Handbook, I. 140.

hypoplastral, a. II. n. One of the two bones

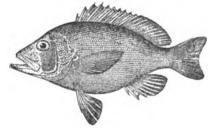
hypoplastral, a. II. n. One of the two bones forming the hypoplastron of turtles. See cut under Chelonia, 1.

hypoplasty (hī'pō-plas-ti), n. [As hypoplastic + -y³.] Same as *hypoplasia.

hypoplasy (hī-pop'la-si), n. [NL. *hypoplasia, Gr. iπō, under, + πλάσις, molding.] A pathological process, due to disturbances of any kind, in which cells fail to attain their normal size number or differentiation; hypoplasia. size, number, or differentiation; hypoplasia.

hypoplax (hi'pō-plaks), n. [NL., \langle Gr. $\dot{v}\pi\dot{o}$, under, $+\pi\lambda\dot{a}\xi$, a plate.] In the shell structure of the pelecypod mollusk *Pholas* or *Martesia*, an accessory platelying ventrally between

Hypoplectrus (hī-pō-plek'trus), n. [NL., \langle Gr. $i\pi \delta$, under, $+\pi \lambda \bar{\eta} \kappa \tau \rho \sigma \nu$, a striker, spearpoint, spur.] A genus of small bass-like fishes known as vacas in Cuba. The species are numerous in the West Indies, and are subject to extra-



Hypoplectrus unicolor. (From Bulletin 47, U. S. Nat. Museum.)

ordinary variation of color, some of them varying from deep blue to yellow, with or without checkers and stripes of brown or blue. *H. unicolor* is the most important species.

hypopraxia (hī-pō-prak'si-ä), n. [NL., < Gr. ύπό, under, + πράξω, action.] Deficient activity. Baldwin, Dict. of Philos. and Psychol.,

Hypoprion (hi-pō-pri'on), n. [NL., \langle Gr. $i\pi\delta$, under, $+\pi\rho i\omega n$, saw.] A genus of sharks of the West Indies, of the family Galeidæ, in which the upper teeth only are serrate. brevirostris is the common species.

hypopteral (hī-pop'te-ral), a. [hypopter-on + -al¹.] Of or relating to the hypopteron or axillary feather-tract.

hypopteron (hi-pop'te-ron), n; pl. hypoptera (-rā). [NL., \langle Gr. $\nu\pi\delta$, under, $+\pi\tau\epsilon\rho\delta\nu$, wing.] The linear tract of feathers which runs from the axilla outward, on the under side of a bird's wing.

hypoptyalism (hi-pop-ti'a-lizm), n. [Gr. $v\pi\delta$, under + $\pi\tau\iota a\lambda ov$, spittle, + ιsm .] Diminished

secretion of saliva.

hyporadiolus (hī'pō-rā-dī'ō-lus), n. The singular of hyporadioli.

hyporadius (hī-pō-rā'di-us), n. The singular of hyporadii.

Hyporhamphus (hi-po-ram'fus), n. [NL., \langle Gr. $i\pi\delta$, under, $+\dot{\rho}a\mu\phi\sigma$, beak.] A genus of halfbeaks, of the family Hemiramphidæ, comprising the commonest American species, H. roberti, and many others.

of the skin and subcutaneous tissues.

hyposcleral (hi-pō-sklē'ral), a. [Gr. ὑπό, under, + σκληρός, hard, + -all.] Same as subsclerotic.

hyposcope (hi'pō-skōp), n. [Gr. ὑπό, under, + σκοπείν, view.] An attachment for a smallarm consisting of a number of mirrors placed at such angles and in such manner that the piece can be aimed accurately from behind a breastwork without exposure of the head.

hyposecretion (hi'pō-sō-krē'shon), n. [hypo-+secretion.] Secretion in diminished amount.

hyposoda (hi-pō-sō'dā), n. [hypo-+soda.] A trade-name for sodium thiosulphate, formerly known as hyposulphite of soda, used by tanners in the processes of mineral tanning with salts

in the processes of mineral tanning with salts of chromium.

of chromium.

hyposphenal, a. II. n. The parasphenoid, a bone in the cranium of fishes which connects the vomer and basioccipital. Starks, Synonymy of the Fish Skeleton, p. 512.

Hypostatic pneumonia. See *pneumonia.

hyposternal, a. II. n. The ceratohyal, a bone of the hyoid arch in fishes. Starks, Synonymy of the Fish Skeleton, p. 517.

hypostheniant (hī-pō-sthē'ni-ant), a. [hypostheniant (hī-pō-sthē'ni-ant), a. [hypostheniant] Reducing the strength or vital force.

or vital force.

or vital force.

hyposthenic (hī-pō-sthen'ik), a. and n. [Gr.

iπό, under, + σθένος, strength, + -io.] I. a. 1.

Properly, having an inferior degree of strength.

2. Reducing the strength in general or the force of any vital action, such as the cardiac pulsetions.

pulsations.

II. n. A debilitating agent, or one that diminishes the force of the heart's action.

hyposthenuria (hi-pos'the-nū'ri-ā), n. [NL., Gr. ὑπό, under, + σθένος, strength, + σύρον, urine.] Suppression, partial or complete, of

the urinary excretion. **Hypostomata**, n. pl. 4. A superclass of extinct, fish-like vertebrates, the Ostracodermi of Cope and other writers: contrasted with or Cope and other writers: contrasted with Cyclostomata, the lampreys, and Gnathostomata, vertebrates with true jaws. They have no true limbs, and no jaws; the vertebral column is acentrous and the dermal skeleton greatly developed. Gadow.

hypostomial (hi-pō-stō'mi-al), a. [hypostoma + -i-al¹.] Of or pertaining to the hypostoma. Proc. Zool. Soc. London, 1902, II. 177.

Hypostominæ (hī'pō-stō-mī'nō), n. pl. [NL., < Hypostomus + -inæ.] A subfamily of small mailed catfishes of the rivers of South Amer-

mailed catisnes of the rivers of South America, typified by the genus Hypostomus.

hypostracum (hi-pos'tra-kum), n. [Gr. ὑπό, under, + δστρακον, a shell.] The third layer of the integument of mites, lying under the ectostracum. Jour. Roy. Micros. Soc., April, 1903,

hypostroma (hī-pō-strō'mā), n. [Gr. $\dot{v}\pi \delta$, under, $+ \sigma r \rho \ddot{\omega} \mu a$, a bed.] Same as mycelium. hyposulphate (hī-pō-sul'fāt), n. [hyposulph(u-ric) + -ate¹.] A salt of hyposulphuric acid, $H_2S_2O_8$, now called dithionic acid; dithionate.

Hypotheria (hī-pō-thē'ri-ā), n. pl. [NL., \langle Gr. $i\pi\delta$, under, $+\theta\eta\rho i\sigma\nu$, beast.] The hypothetical but probable ancestors of the Mammalia: small animals combining the characters of reptiles and mammals and closely related to the Anomalia. modontia.

It is true that no small forms . . . have hitherto been discovered which can be regarded as ancestral types of the Mammalia (*Hypotheria* or Promammalia).

Energy. Brit., XXX. 505.

hypothermal (hī-pō-ther'mal), a. [Gr. $\dot{v}\pi \delta$, under, + $\theta \dot{v}\rho \mu \eta$, heat, + -all.] Same as *hypothermic.

hyposarca (h̄l-p̄c-sār'kṣ), n. [NL., ⟨ Gr. iπδ, under, + σάρξ (σαρκ-), flesh.] Excessive edema of the skin and subcutaneous tissues.

hyposcleral (h̄l-p̄c-sklē'ral), a. [Gr. iπδ, under, + θέρμη, heat.] A condition of reduced temperature, especially of animal heat. hyposcope (h̄r'p̄c-sklō), n. [Gr. iπδ, under, + θέρμη, heat, + ic.] Relating to a modard as an acid oxid; in the former case it forms with the proposal of the skin and subcutaneous tissues.

hyposcope (h̄r'p̄c-sklō), n. [Gr. iπδ, under, + θέρμη, heat, + ic.] Relating to a modard as an acid oxid; in the former case it forms with a subcutaneous tissues.

hyposcope (h̄r'p̄c-sklō), n. [Gr. iπδ, under, + θέρμη, heat, + ic.] Relating to a modard as an acid oxid; in the former case it forms with the rest or lower temperature; having a tendency hypovanadious (h̄r'p̄c-v̄a-n̄a'di-us), a. [Gr. iπδ, under, + θέρμη, heat, + ic.] Relating to a modard acid shypovanadious (h̄r'p̄c-v̄a-n̄a'di-us), a. [Gr. iπδ, under, + θέρμη, heat, + ic.] Relating to a modard acid shypovanadious (h̄r'p̄c-v̄a-n̄a'di-us), a. [Gr. iπδ, under, + θέρμη, heat, + ic.] Relating to a modard acid shypovanadious (h̄r'p̄c-v̄a-n̄a'di-us), a. [Gr. iπδ, under, + θέρμη, heat, + ic.] Relating to a modard acid shypovanadious (h̄r'p̄c-v̄a-n̄a'di-us), a. [Gr. iπδ, under, + θέρμη, heat, + ic.] Relating to a modard acid shypovanadious (h̄r'p̄c-v̄a-n̄a'di-us), a. [Gr. iπδ, under, + θέρμη, heat, + ic.] Relating to a modard acid shypovanadious (h̄r'p̄c-v̄a-n̄a'di-us), a. [Gr. iπδ, under, + θέρμη, heat, + ic.] Relating to a modard acid shypovanadious (h̄r'p̄c-v̄a-n̄a'di-us), a. [Gr. iπδ, under, + θέρμη, heat, + ic.] Relating to a modard acid shypovanadious (h̄r'p̄c-v̄a-n̄a'di-us), a. [Gr. iπδ, under, + θέρμη, heat, + ic.] Relating to a modard acid shypovanadious (h̄r'p̄c-v̄a-n̄a'di-us), a. [Gr. iπδ, under, + θέρμη, heat, + ic.] Relating to a modard acid shypovanadic salta. to reduce the temperature.

under, + ##pun, heat, +-ic.] Relating to a moderate or lower temperature; having a tendency to reduce the temperature.

hypothesis, n.—Difference, filar, glacial hypothesis, see *difference, etc.—Meteoritic hypothesis, the theory (of late specially elaborated, though not originated, by Sir Norman Lockyer), that the nebulæ consist of swarms of meteorites, and that stars and systems have been formed by the slow aggregation of these bodies. It is in contrast with the nebulær hypothesis of Laplace, which presupposed an original mass of heated gas. Professor George Darwin has shown that in the long run such a meteoritic assemblage would behave in most respects like a gaseous mass contracting under its own gravitation, first rising in temperature to a maximum and then cooling after solidification. According to the meteoritic hypothesis the light of nebulæ is explained by the collisions between the meteors, and the bright lines that characterize the distinctly gaseous spectra of many nebulæ are attributed to gases liberated from the meteors themselves by these collisions, possibly illuminated by electric discharges, no general high temperature of the nebulæ being required. The theory finds plausible applications in explaining the phenomena of temporary (novæ) and variable stars, as due to the encounter of two or more such meteoritic clouds.—Planetesimal hypothesis, by hypothesis, in phys. chem., the hypothesis, put forward by William Prout in 1815 and 1816, that the atomic weights of the elements are multiples by whole numbers of the atomic weight of hydrogen—from which follows an obvious suggestion as to the relation of different elements to each other. It was shown that chlorin by no means agrees with the hypothesis, and the hypothesis was modified so as to assert that atomic weights are integral multiples of the half or of the fourth, but the point is quickly reached where experiment cannot decide whether the suggested numbers are correct or not, and the new hypothesis coses to be verifiable; so that Prout's hypoth

hypothesize, v. II. trans. To assume as a hypothesis.

This anatomical relation is the basis of the "avalanche conduction" *hypothesized* by Ramón y Cajal.

Buck, Med. Handbook, II. 334.

body in general.

hypotonic (hi-po-ton'ik), a. [Gr. $i\pi\delta$, under, + $\tau\delta\nu\sigma$ s, tone, + ic.] 1. Less than isotonic; specifically, noting a solution of salt when it

hypotrophy (hi-pot'rō-fi), n. [Gr. ὑπό, under, + τροφή, nourishment.] 1. Same as atrophy. 2. An abnormal state due to defective nutrition.

hypotype (hī'pō-tīp), n. [Gr. $i\pi\delta$, under, + $\tau i\pi \sigma c$, type.] A specimen of a natural object rimos, type.] A specimen of a natural object hypsicephaly.
which has been employed in supplementary hypsographic (hip-sō-graf'ik), a. Of or perillustration or description of a species: containing to hypsography, or the science which trasted with the type or original specimen on which the species is founded.

hypovanadate (hī-pō-van'a-dāt), n. [hypova-nadic + -atel.] A compound of hypovanadic oxid or vanadium tetroxid, V₂O₄, with a more strongly electropositive metallic oxid.

hypovanadious (hī'pō-vā-nā'di-us), a. [Gr. iπό, under, + E. vanadious.] Containing less

into, under, + E. vanadious.] Containing less oxygen than a vanadious compound.—Hypevanadious oxid, vanadious compound.—Hypevanadious oxid, vanadious salts.

hypozygal (hī-pō-zi'gal), a. [Gr. iπ6, under, + ζυγόν, yoke.] Noting the lower and nonpinnuliferous joint in the arm of a crinoid when the arms consist of alternating joints, one with and one without a pinnule: the upper is the epizygal. Each pair constitutes morphologically but one joint, and the suture between them is a syzygy.

Hypsagonus (hip-sag'ō-nus), n. [NL., ⟨Gr. iψu, high, + NL. Agonus.] A genus of seapoachers or Agonidæ found in the North Pacific.

hypsalograph (hip-sal'ō-graft) a [Gr. into.

hypsalograph (hip-sal'ō-graf), n. [Gr. υψος, height, + ἀλς, sea, + γράφειν, write.] An apparatus for automatically recording the varying height of the ocean.

ing height of the ocean.

hypselodont (hip-sel'ō-dont), a. [Gr. ἐψηλός, high, + ὁδοίς (ὁδοντ-), tooth.] Having teeth with long crowns and short roots: an amended form of hypsodont. Proc. Zool. Soc. London, 1897, p. 699.

hypselodonty (hip-sel'ō-don-ti), n. [hypselodont + -y³: an amended form of hypsodonty.]

The fact or condition of having teeth with long crowns and short roots. Proc. Zool. Soc.

long crowns and short roots. Proc. Zool. Soc. London, 1902, II. 229.

hypsibrachycephalous (hip-si-brak-i-sef'a-

lus), a. Same as hypsibrachycephalic.
hypsicophalic, a. 2. Having a dolichocephalic high skull, with high forehead. Aitken Meigs.

mergs.

hypsicephalous (hip-si-sef'a-lus), a. [Gr. υψι-, high, + κεφαλή, head, + -ous.] Same as *hypsicephalic, 2.

hypsiconchic (hip-si-kong'kik), a. Same as *hypsiconchous.

*hypsiconchous.
hypsiconchous (hip-si-kong'kus), a. [Gr. ιψ., high, + κόγχη, shell.] In anthrop., having an orbital index exceeding 85. See megaseme.
hypsiconchy (hip-si-kong'ki), n. [hypsiconch(ous) + -y³.] The quality or condition of being hypsiconchous. Biometrika, March-July, 1904, p. 236.

hypsicranial (hip-si-krā'ni-al), a. [Gr. ψ., high, + κρ.νύον, skull, + -al¹.] In anthrop., characterized by or exhibiting a skull of more than middle height. Biometrika, March-July, 1904, Buck, Med. Handbook, II. 334. hypothyroidism (hi-pō-thi'roi-dizm), n. [Gr. $v\pi$ 6, under, + E. thyroid + -ism.] A pathological condition in which there is diminished activity of the thyroid gland. hypotonia (hi-pō-tō'ni-ä), n. [NL., \langle Gr. $v\pi$ 6, under, + τ 0 $v\sigma$ 5, tension, tone.] A condition of diminished tension or tone in a part or in the holy in general.

1. n. One of the Hypsilophodontiae.

1. a. Of or pertaining to the Hypsilophodon-

II. a. Of or pertaining to the Hypsilophodon-

body in general.

hyposulphate (hi-pō-sul'fāt), n. [hyposulphu-wric) + ate1.] A sait of hyposulphuric acid, H2S2O3, now called dithionic acid; dithionate. hyposulphite, n.—Alkaline hyposulphite, a compound obtained by the action of hyposulphurous acid on the alkaline bases, as sodium hyposulphurous acid on the potencial of the flopo-tior'ist), a. [Gr. iwi., this sense to the blood-servum. Also hypisotonic.

hypotetrarch (hī-pō-tet'rārk), n. [Gr. iwi., this sense to the blood-servum. Also hypisotonic.

hypotetrarch (hī-pō-tet'rārk), n. [Rypot- + tetrarch.] In bot., a triarch stele in which the protoxylem of the median strand is divided.

hypotetrarch (hī-pō-tet'rārk), n., pl. hypothecas (hī-pō-tō'ra, n. [Npothecas (hī-pō-tō'ka), n.; pl. hypothecas (hī-pō-tō'ka), n.; pl. hypotheca

America. It differs from *Blennius* in having no canine teeth. *H. hentzi* is common on the South Atlantic coast.

hypsocephalic, hypsocephalous, hypsocephalous, See *hypsicophalic, *hypsicophalous, aly. See hypsicephaly.

nypsograpnic (hip-sō-graf'ik), a. Of or pertaining to hypsography, or the science which deals with the altitudes of different portions of the earth's surface: as. a hipsographic map, one showing by contour-lines, or other symbols, the relative elevation of the different portions of the territory mapped. See hypsography. Amer. Geol., Aug., 1903, p. 79.

As *hypsographic.

Hypsometric formula. See *formula.

hypsometrist (hip-som'e-trist), n. One who practises hypsometry, or measures the altitude of the land above the sea-level, or who illustrates the earth's relief by models or maps. Sci. Amer. Sup., Jan. 1, 1898, p. 18354.

Sci. Amer. Sup., Jan. 1, 1898, p. 18354.

hypsometry, n.—Barometric hypsometry, the art of determining the altitude above or below sea-level by the use of the barometer. The rough method known to Torricelli and his followers was perfected by the construction of the proper hypsometric formula, expressing the relation between pressure and altitude, by Laplace, and by the use of the accurate Fortin barometer. Modern improvements have been due to Angot's study of the effect of the variation of gravity and of atmospheric temperature and to the gradient correction given by the daily weather-maps.

hypsophobia (hip-sō-fō'bi-\(\bar{a}\), n. [Gr. \(\bar{v}\psi_0\circ\), height, + \(\phi_0\beta(a)\) (a, \(\phi_0\circ\)) fear.] A morbid fear of great heights.

hypsophyllous (hip-sof'i-lus), a. [hypsophyll-t-olis.] Same as hypsophyllary.

Hypsopsetta (hip-sop-set'\(\bar{a}\)), n. [NL., \(<\phi_1\).

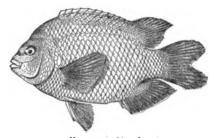
Hypsopsetta (hip-sop-set's), n. [NL., (Gr. hysteresic (his-te-rē'sik), a. Same as *hysterito-viψ-, high, + ψηττα, a flatfish.] A genus of small flounders, of the family Pleuronectide, hysteresis, n.—Dielectric or electrostatic hysteresis, the loss of energy in an electrostatic hysteresis the loss of energy in an electrostatic hysteresis. having the teeth in more than one row: found on the coast of California. *H. guttulata* is the common species.

hypsothermometer (hip'sō-thèr-mom'e-tèr), n. Same as hypsometer.

It was first discovered by the hypso-thermometer, which shewed to Bogdanovich the quite unexpected temperature of boiling water, 212.63° Fahr.

Geog. Jour. (R. G. S.), IX. 552.

Hypsurus (hip-sū'rus), n. [NL., < Gr. ὑψι-, high, Hypsurus (hip-su'rus), n. [NL., $\langle Gr. v\psi^2$ -, nigh, $+ ov\rho \acute{a}$, tail.] A genus of surf-fishes of the family *Embiotocidæ*, remarkable for their brilliant red and blue colors, and for the elongation of the body-cavity: found on the coast of California. *H. caryi* is the common species. **Hypsypops** (hip'si-pops), n. [NL., orig. *Hypsipops* (Gill, 1861), irreg. $\langle Gr. \dot{\nu}\psi$ -, high, $+ \dot{\nu}\pi \acute{o}$, below, $+ \dot{\omega}\psi$ ($\dot{\omega}\pi$ -), face.] A genus of damsel-



Hypsypops rubicunda. (From Bulletin 47, U. S. Nat. Museum.)

fishes of the family Pomacentridæ, remarkable for their relatively large size and brilliant coloration. H. rubicunda is the garibaldi of the coast of California. When full grown it is of

a uniform bright searlet.

hypural, a. II. n. In ichth., the bone which supports the caudal fin. Starks, Synonymy of

the Fish Skeleton, p. 526.

hyracodontid (hī-rak-ō-don'tid), n. and a. I.

n. A member of the family Hyracodontidæ.

II. a. Of or pertaining to the Hyracodontids.
hyracodontoid (hī-rak-ō-don'toid), n. and a. I.
n. A mammal like Hyracodon.

II. a. Having the characters of Hyracodon. Hyracoidea, n. pl. Thirty-two spectes and subspectes of this order are now recognized, all placed in the genus Procavia (Storr, 1780), this name antedating Hyrax by three years. A fossil species, Pliohyrax kruppii, has been described from the Pliocene of Greece and the list of Samos, and Archwohyrax, from the Miocene of Patagonia, has been assigned to this group.

Hyrcanian (her-kā'ni-an), a. Of or pertaining to the ancient Hyrcania in Asia. Shak., Hamlet in Asia. Shak., Hamlet

hyssop, n. 4. In the western United States, sage-brush, Artemisia. [Only in old writings.] Sage-brush, Artemista. [Univ in old writings.]

N. E. D.— Anise-hyssop, the fragrant giant hyssop, Agastacha anethiodora.—Glant hyssop, any plant of the labiate genus Agastache, especially A. anethiodora, sometimes distinguished as fragrant giant hyssop. It is not tive to the western plains of the United States. A. nepetoides and A. scrophularisefolia of the eastern United States are called respectively catnip and figuort giant hyssop.

States are called respectively carney analysis.

Hystatoceras (his-ta-tos'e-ras), n. [NL., < Gr. ioraroc, the hindmost, + kėpac, horn (used as a generic termination in fossil Cephalopoda).]

A genus of ammonoid Cephalopoda, or ammonites, characterized by compressed, smooth, keeled young shells and costate, unkeeled later relations.

hysteric¹, n. Z. A hysteria policient from hysteria.

And again, the murder with an apparently sufficient motive, may be nothing more after all than the work of a maniac, epileptic, hysteric, etc.

Smithsonian Rep., 1890, p. 667.

hysteric² (his-ter'ik), a. Same as *hysteretic.

Hysterical breast, a circumscribed swelling of the

hypsographical (hip-so-graf'i-kal), a. Same hystazarin (his-taz'a-rin), n. An orange-yel-as *hypsographic. low compound, $C_6H_4 < \stackrel{CO}{CO} > C_6H_2(\stackrel{3.4}{OH})_2$, pre-

pared from pyrocatechol and phthalic anhydrid. It crystallizes in slender needles, melts at 260° C., and, in the form of its monomethyl ether, occurs in the root of Oldenlandia umbellata. Also called diohydroxy-

Iysterangiaceæ (his-te-ran-ji-ā'sē-ē), n. pl. [NL., \ Hysterangium + -aceæ.] A family of subterranean gasteromycetous fungi named from the genus Hysterangium.

Hysterangium (his-te-ran'ji-um), n. [NL. (Vittadini, 1831), so called in allusion to the form of the sporocarp; ζ Gr. ὐστέρα, uterus, + ἀγγείον, vessel.] A genus of subterranean gasteromycetous fungi which have the peridium separable

[Gr. $i\psi o_i$, from the gleba.

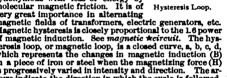
A morbid hysterectomy, n.—Cassareanhysterectomy. Same as Porro's operation (which see, under operation).

[hypsophyl hysteresial (his-te-re'si-al), a. [hysteresis + -al]. Same as *hysteretic.

-al]. Same as *hysteretic.

hysteresic (his-te-re'sik), a. Same as *hysteretic.

hysteresis, n.— Dielectric or electrostatic hysteresis, the loss of energy in an electrostatic condenser with an alternating electromotive force.— Elastic nysteresis, an effect, analogous to magnetic hysteresis in iron, observed in the relation of strain to stress when the stress to which an elastic body is subjected is alternately increased and diminished.— Electrolytic hysteresis, the loss of energy in a polarization-cell traversed by an alternating current.—Hysteresis coefficient. See *coefficient.—Hysteresis coefficient. See *coefficient.—Hysteresis of hysteresis, the lag of magnetic flux behind the magnetomotive force which is the electrical equivalent of the energy consumed by molecular magnetic friction during a magnetic cycle and gives rise to the phenomena of permanent and remanent magnetism and coercitive force. The area of the hysteresis loop equals the energy consumed as heat, if no other energy is consumed or supplied, and the term magnetic hysteresis loop equals the energy consumed or supplied, and the term magnetic hysteresis loop or magnetic friction. It is of very great importance in alternating magnetic fields of transformers, electric generators, etc. Magnetic hysteresis is closely proportional to the 1.6 power of magnetic induction. See magnetic *circuit.* The hysteresis loop, or magnetic loop, is a closed curve, a, b, c, d, which represents the changes in magnetizing force (H) is progressively varied in intensity and direction. The arrows indicate the direction in which the cycle is followed. hysteresis—meter (his-te-re'sis-me't'er), n. In elect.. a device for measuring the hysteresis



hysteresis-meter (his-te-re'sis-me'ter), n. In elect., a device for measuring the hysteresis losses in samples of iron or steel. It consists of a spindle by means of which the sample may be revolved between the poles of a suspended

hysteresis-receiver (his-te-re'sis-re-se'ver), n. In wireless teleg., a magnetic receiver which depends for its action upon hysteresis in iron. hysterestic (his-te-res'tik), a. Same as *hys-

hysteretic (his-te-ret'ik), a. [hysteresis (-et-) + -ic.] Pertaining to or exhibiting hysteresis.

If it is desired to annihilate the hysteretic effects of previous magnetization, . . . it [the metal] may be demagnetized by reversal.

Encyc. Brit., XXX. 433.

Hysteretic coefficient. Same as hysteresis *coefficient.—Hysteretic constant, a constant which defines quantitatively the property of a sample of iron or steel as regards hysteresis.—Hysteretic cycle, the cycle of operations, consisting of magnetization in the + direction, demagnetization, magnetization in the reversed or — direction, and demagnetization, which makes up the hysteresis loop. hysteretically (his-te-ret'i-kal-i), adv. [hysteretic + -all + -ly2.] In a manner involving or exhibiting hysteresis.

A hysterical person.

Hysteriaceæ (his-tē-ri-ā'sē-ē), n. pl. [NL., < Hysterium + -aceæ.] Same as Hysterineæ, of

which it is the proper form.

Hysteriales (his-tē-ri-ā'lēz), n. pl. [NL., < Hysterium + -ales.] An order of ascomycetous

terographium.

hysteric¹, n. 2. A hysteric person; one who suffers from hysteris.

breast, changeable as to size and location and painful on pressure, occurring in a hysterical subject.— Hysterical insanity, joint, spine, etc. See *insanity, etc.

hystericism (his-ter'i-sizm), n. [hysteric1 + -ism.] The group of symptoms recognized as hysterical.

Hysteriane (his-tē-ri-ī'nē-ē), n. pl. [NL., < Hysterium + -ineæ.] Same as *Hysteriales. hysterism (his'te-rizm), n. [hyster(ic) + -ism.] The hysterical state; hysteria. Amer. Jour.

Psychol., II. 593. Psychol., II. 593. hysterocarcinoma (his'te-rō-kär-si-nō'mä), n.; NL.. & Gr. pl. hysterocarcinomata (-ms.tä). [NL., ζ Gr. νστέρα, uterus, + καρκίνωμα, cancer.] Cancer of the uterus.

Hysterocarpine (his'te-rō-kär-pī'nē), n. pl. [NL., \(\partial Hysterocarpus \displaysin -in\varepsilon.]\) A subfamily of the Embiotocidæ typified by the genus Hysterocarpus.

terocarpus.

Hysterocarpus (his'te-rō-kär'pus), n. [NL., ⟨ Gr. ὑστέρα, uterus, + καρπός, fruit.] A genus of fishes of the family Embiotocidæ. It differs from all American surf-fishes in the very large number of its dorsal spines, and in its exclusively fresh-water habitat. H. traski is found in the tributaries of San Francisco bay. Like the marine species, it is viviparous, the young being about an inch long when born.

hysterocrystallization (his'te-rō-kris'ta-lizā'shon), n. [Gr. ὑστερος, later, + E. crystallization.] Secondary crystallization in formerly compact rocks through the chemical action of aqueous solutions. Naumann. 1858.

merly compact rocks through the chemical action of aqueous solutions. Naumann, 1858.

hysterocystic (his 'te-rō-sis 'tik), a. [Gr. ὑστέρα, uterus, + κίστις, bladder, + -ic.] Relating to both the uterus and the bladder.

hystero-epileptic, a. II. n. One who suffers from hystero-epilepsy. Buck, Med. Handbook, IV. 833.

hysterogen (his'te-rō-jen), a. [Gr. tστερος, later, + -γενης, -produced.] Same as *hysterogenetic.

genetic.

hysterogenetic (his'te-rō-jō-net'ik), a. [Gr. iortepoc, later, + yéveac, genesis, + ic.] Of later origin or formation; in petrog, noting that part of an igneous rock which crystallizes last in the process of solidification of the molten magma. The term is applicable to the quartz and orthoclase in a diorite which crystallized after the plagiciase and ferromagnesian minerals. It also applies to contemporary veins of like composition that cut diorite masses, to many permatite veins, and to certain kinds of schlieren. Zirkel, 1866.

hysterogenic² (his'te-rō-jen'ik), a. [Gr. υστερος, later, + -γενης, -produced, + -ic.] Same as *hysterogenetic.

hysterogenite (his-te-roj'e-nīt), n. [Gr. iστερος, later, +-γενης, -produced, +-ite².] A mineral deposit of secondary or later formation, that is, one derived from the debris of other rocks. Compare *idiogenite and *xenoaenite.

İysterographium (his'te-rō-graf'i-um), n. [NL. (Corda, 1842), (Hysterium + graphium.]
A genus of ascomycetous fungi of the family A genus of ascomptenous rungi of the faining Hysteriaceæ. They have black carbonaceous ascomata with a longitudinal opening and colored muriform spores. About 70 species have been described. H. Frazini occurs frequently on dead or dying branches of sah.

hysterolaparotomy (his'te-rō-lap-a-rot'ō-mi), n. [Gr. iστέμα, uterus, + Ε. laparotomy.] Sur-gical exsection of the uterus through an in-

gical exsection of the uterus through an incision made in the abdominal wall.

hysterolith (his'te-rō-lith), n. [Gr. ἐστέρα, uterus, + λίθος, stone.] A concretion within the cavity of the uterus.

hysteromalacia (his'te-rō-ma-lā'si-ā), n. [Gr. ἐστέρα, uterus, + μαλακία, softness.] S. ftening of the uterus, especially the pregnant uterus.

hysterometry (his-te-rom'e-tri), n. [Gr. ἐστέρα, uterus, + μέτροῦ, measure.] Measurement of the uterus.

hysteromorphous (his'te-rō-môr'fus), a.

ment of the uterus.

hysteromorphous (his 'te-rō-mōr'fus), a.
[Gr. ἐστερος, later, + μορφή, form.] In petrog.,
noting those ore-deposits which have been
formed by chemical and mechanical influences from previously existing deposits.
hysteromyoma (his 'te-rō-mī-ō'mā), n.; pl. hysteromyomata (-ma-tā). [NL., < Gr. ἐστέρα, uterus, + NL. myoma.] A myoma of the uterus.
hysteromyomectomy (his 'te-rō-mī-ō-mek' 'tōmek' 'tō-mek' 'tō

Hysterium + -ales.] An order of ascompositions fungi having the ascomata elongate or boatshaped, closed at first, but finally opening by a longitudinal slit. See Hysterium and *Hysmi), n. [NL. hysteromyoma + Gr. ἐκτομή, excision.] Excision of a myoma of the uterus. hysteroncus (his-te-rong kus), n. [NL.. ζ Gr. υστέρα, uterus, + ογκος, a mass.] A tumor of

And again, the murder with an apparently sufficient motive, may be nothing more after all than the work of a maniac, epileptic, hysteric, etc.

Smithsonian Rep., 1890, p. 667.

Smithsonian Rep., 1890, p. 667. toms of hysteria and of neurasthenia are both present.

hysteroneurosis (his'te-rō-nū-rō'sis), n. [NL., ζ Gr. ὑστέρα, uterus, + νεῦρον, nerve, + -osis.] A nervous disorder occurring as a reflex in dis-

hysteropexy (his'te-rō-pek-si), n. [Gr. bστέρα, hysterotraumatic (his'te-rō-trâ-mat'ik), a. uterus, + πῆξις, fastening.] Operative fixation of the fundus of the uterus to the anterior abdominal wall for the relief of prolapse. hysterotraumatism (his'te-rō-trâ-mat'ik), a. [Gr. bστέρα, uterus, + τραυμα(τ-), wound, + -ic.] Relating to or suffering from hysterotraumatism. (his'te-rō-trâ-mat'ik), a. hysterotraumatic (h

ceous plant which does not elaborate its own nourishment, that is, a saprophyte or parasite: following injury. opposed to *autophyte.

opposed to "aumphyse.

hysterophytic (his'te-rō-fit'ik), a. [hysterophyte + -ic.] Having the character of a hysterophyte, or pertaining to hysterophytes. ease of the uterus.

hystero-oöphorectomy (his'te-rō-ō'ō-fō-rek'hystero-oöphorectomy (his'te-rō-ō'ō-fō-rek'hystero-oòphorectomy (his'te-rō-ō-fō-rek'hystero-oòphorectomy (his'te-rō-ō-fō-rek'hystero-oòphorectomy (his'te-rō-ō-fō-rek'hyste

[hysterotraumat(ic) + -ism.] Hysteria

hystricomorphine (his 'tri-kō-môr'fin), a. Same as hystricomorphic.

ovaries.

hystero-ovariotomy (his'te-rō-ō-vă'ri-ot'ōmi), n. Same as *hystero-oöphorectomy.

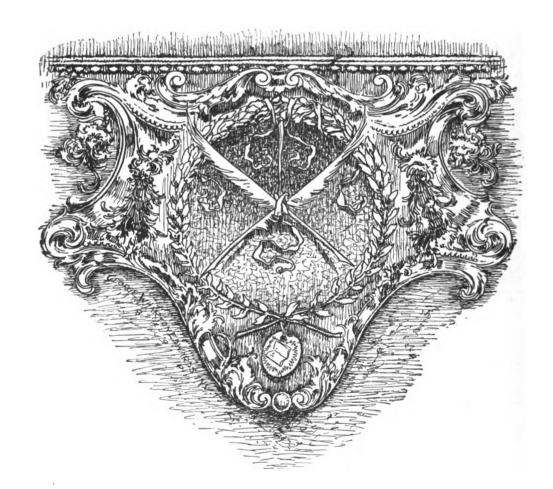
hysteropathic (his'te-rō-path'ik), a. [hysteropath-y + -ic.] Suffering from a disease of the
uterus. Alien. and Neurol., Feb., 1903, p. 72.
hysteropathy (his-te-ro)-rek'sis), n. [Gr. hysterorhexis (his'te-rō-rek'sis), n.
voτέρα, uterus, + -παθια, < πάθος, disease.] Uterine disease.
hysterorhexis (his'te-rō-rek'sis), n. [Gr. hysterorhexis]) n. [Gr. hysterorhexis] (his'te-rō-rek'sis), α.

Gr. νοτέρα, uterus, + παδια, falling.] Falling
ite.

Hythe beds. See *bed1.
hyther (hi'thèr), n. [hy(grometer) + thercomfort so far as our sensations depend upon
the conditions indicated by the hygrometer
ture of the uterus.
hysterorexy (his'te-rō-rek-sis), n. [Gr. hysterorhexis]
hysterorexy (his'te-rō-rek-sis), n. [NL.,
hysterorexy (his'te-rō-rek-sis), n. [NL.,
hysterorexy (his'te-rō-rek-sis), n. [NL.,
hysterorexy (his'te-rō-rek-sis), n. [NL.,
hysterorexy (his'te-rō-rek-sis), n. [Gr. hysterorhexis]
hysterorexy (his'te-rō-rek-sis), n. [NL.,
hysterorexy (his'te-rō-rek-s

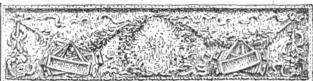
But one generalization seems to be allowable, namely, that the lines of equal comfort, or the zones of hythers, all run in approximately parallel directions, showing that he law governing the relation of humidity to temperature is similar in all cases.

W. F. Tyler, in U. S. Monthly Weather Rev., May 1904, [p. 217.











2. (d) The usual symbol for the moment of inertia. (e) In elect., a symbol for current. (f) In math.: (1) The symbol (i or i) for the neomon, the square root of minus one $(\sqrt{-1}, (-1)^{1/2})$. (2) In quaternions, the symbols

i, j, k denote a system of three right versors in three mutually rectangular planes; thus i is a particular quaternion having for its amplitude one right angle. (g) In chem., i- before certain compounds has reference to their inaction as distinguished from

erence to their inaction as distinguished from dextro-rotation (d-) or levorotation (l-).—3. An abbreviation (d) [cap.] of Idaho; (e) [cap.] of the Latin Imperator, emperor; (f) [cap.] of Island; (g) of intransitive.

-i¹ (-ī, or as L., -ē). [L -ī (whence It. -i), OL. -ci, -c, -oe, -oi (-eis, -ēs, -is) = Gr. -oi = Skt. -ās = Goth. -ōs = AS. -as, E. -es, -s, etc., Indo-Eur. -ōs, -ās, contracted from *-o-es, *-a-es.

The original ending -s, which appears in other Latin and Greek declensions, was lost in the second declension through conformity to certain accompanying pronominal and adjective second declension through conformity to certain accompanying pronominal and adjective forms (L. istī, illī, (fr. ol, etc.).] A nominative plural ending of Latin masculine nouns and adjectives of the 'second' declension, with nominative singular in -us, or without suffix, many of which have come into English use, literary or technical. Examples are acini, cyathi, denarii, foci, genii, hippopotami, illuminati, literati, loci, ocelli, radii, Galli, Iberi, Chatti, etc. In some instances there is also a regular English plural in -es after the ending-us, as focuses, geniuses, hippopotamuses, etc. This plural suffix appears in many classnames in zoology and botany which are plurals of individual or generic names in -us which are less often used in the singular. Examples are Acanthopterygii, (hondropterygii (sc. pisces, fish), Acrocarpi (sc. musci, mosses), etc. See also -ini, etc.

-12 (ā). [It. -i, < L. -i : see *-il.] A nominative plural suffix of Italian nouns sometimes used in English, as banditti, dilettanti, lazzaroni, scudi, soprani, etc.

result, soprani, etc.
-i³ (-i, or as L., -ē). [L. -i = O Celtic -i, of different origin from Gr. -ov, etc., and L. -is (*-es-is, > -er-is, etc.), AS. -es, Eng. -es, s, 's.]

The ending of some Latin genitives singular of nouns and adjectives of the second declension occurring in some appoint mediavelor sion, occurring in some ancient, medieval or modern Latin phrases used in English, as genius loci, lapis lazuli, quid novi, etc.

Ia. An abbrevation of *Iowa*.

iambist (i-am'bist), n. [iamb + -ist.] A writer of iambic verse; hence, a satirist; a lampooner. See iambus.

With a malignity of personal slander not inferior to the Iambist Archilochus. Grote, Greece, VIII. ii. 67.

Ianassa (i-a-nas'ā), n. [NL., < Gr. 'Iávacoa, a name of a Nereid.] A genus of extinct fishes of the family Petalodontidæ, having a body shaped like a ray, with shagreen skin and the dentition consisting of pavement teeth arranged in longitudinal rows, each tooth overlapping the next in front. It is from the Carboniferous rocks in various parts of the world.

world.
ianthine (i-an'thin), a. [L. ianthinus, < Gr.
idνθυνος, of the color of violets, < laνθος, laνθον,
a violet, < lov, violet, + ἀνθος, flower.] Violetcolored. Treas. Bot., p. 616. N. E. D.
iatrarchy (i ā-trār-ki), n. [Gr. iarρός, physician,
+ -aρχα, < ἀρχευ, rule.] The order or profession of physicians. N. E. D. [Nonce-word.]

The chiefs of the Hierarchy, the Intrarchy, . . . the loplarchy. Southey, Doctor, VII. 498. Hoplarchy.

iatrochemistry (i-ā'trō-kem'is-tri), n. [Gr. iaτρός, physician, + E. chemistry.] The chemistry of the sixteenth and first half of the seventeenth centuries. In that period the substitution of remedies prepared by artificial chemical processes for the roots and herbs of earlier medicine greatly changed the practice of that art, while, on the other hand, medical or

medicophysiological theories to a great extent stimulated and guided chemical investigation. Among the more prominent introchemists were Paracelsus, Libavius, Van Helmont, Sylvius, Tachenius, and Glauber.

It is difficult to realize at the present time how the tatrochemistry developed and flourished as long as it did. Science, July, 1904, p. 2.

Science, July, 1904, p. 2. iatromathematics (ī-ā'trō-math-ē-mat'iks), n. [Gr. ἰατρός, physician, + μαθηματικά, mathematics.] Same as *iatrophysics.
iatrophysics (ī-ā-trō-fiz'iks), n. [Gr. ἰατρός, physician, + φυσικά, physics.] The theory and practice of the iatrophysical school of physicians. ciana

Thanag (ē-bā-nāg'), n. [Ibanag (Cagayan) name.] 1. The language spoken by the Cagayans of northern Luzon.—2. One who speaks the Ibanag language.

I-bar (i'bār), n. 1. A metal bar having a cross-section like the capital letter I.—2. A mistaken spelling for ever her.

spelling for eye-bar.

Iberian I. a. S. In anthrop., of or pertaining Transparent the Therman type of Deniker.

Transparent the Transparent type inhabiting the greater part of southern Europe and parts of northern Africa. Also called Mediterranean. It comprises the Ibero-insular and Atlanto-Mediterranean type of Deniker.

II. n. 3. In anthrop., a member of the Iberian

Iberian², a. II. n. An inhabitant of Iberia. country of ancient Asia corresponding to

what is now called Georgia.

The desire to unite Spain and Portugal

The desire to uni under one crown, with the ancient name of Iberia. Lit. World, Oct. 3, 1880, p. 234.

Iberic (i-ber'ik), a. and n. [L. Ibericus, ζ Gr. 'Ιβηρικός, ζ 'Ιβηρες, Iberians.] Same as Iberian1.

This form of construction seems to be quite typical in the *Iberic* West.

A. J. Evans, in Jour. Hellenic Studies, XXI. 187.

of the Spanish peninsula, +-ism.] The principles of the Iberist; Iberianism.

Iberist (i'ber-ist), n. [Iberia +-ism.] The principles of the Iberists; Iberianism.

Iberist (i'ber-ist), n. [Iberia +-ist.] An advocate of the political union of Spain and

Portugal.

Tortugal.
Iberite² (i'ber-it), n. [Iberia + - ite².] An advocate of Iberianism.

vocate of Iberianism.

Ibero-Celtic (i-bē'rō-sel'tik), a. Iberian and Celtic. Keane, Ethnology, p. 201.

Ibero-Celto-Teutonic (i-bē'rō-sel'tō-tū-ton'ik), a. Iberian, Celtic, and Teutonic. Keane, Ethnology, p. 201.

Thero-insular (i-bē'rō-in'gū-lār), a. In anthrop., of or pertaining to a race or type inhabiting a large part of Spain, Portugal, Corsica, Sardinia, and southern Italy, including Sielly observatorized by short stature long. ing Sicily, characterized by short stature, long heads, tawny white skin, and black hair. Deni-ker, Races of Man, p. 285.

ibex, n.—Abyssinian ibex, Capra valie, a rare species with strongly curved horns.—Arabian ibex, Capra sinatica, a species of ibex which has

of thex which has much compressed horns with the knobs at irregular intervals: found in Arabia, Palestine, and upper Egypt.—Himalayan ibex, Capra sibirica, a large species of the mountains of central Asia, distinguished by its size and heavy beard.

Didium (i-bid'-Thidium (i-bid'i-um), n. [NL. (Salisbury, 1812), \langle Gr. $i\beta\iota\sigma$ ($i\beta\iota\delta$ -), ibis. The anthers were anthers were compared to the head of an ibis.] A genus of monocotyledonous



(From Britton and Brown's "Illus. Flora of the Northern States and Can-ada.") Ibidium cernuum

plants belonging to the family Orchidaceæ. See Spiranthes.

ibis, n. 4. In angling, an artificial hackle-fly, ribbed with silver tinsel, with body, hackle, wings, and tail scarlet.—Straw-necked this, Car-phibis spinicollis, an Australian species which has the feathers of the lower neck developed as alender yellowish spines. Very similar species occur in South America.

-ible. See-ble.

iboga (ē-bō'gā), n. [W. African.] A name, in the Kongo region of West Africa, of a shrub of the dogbane family, Tabernanthe Boga. Though growing wild in this region, it is frequently cultivated near the native villages for the sake of its medicinal and narcotic roots, which contain an alkaloid similar in its action to cocaine.

bogaine (ē-bō'ga-in), n. [iboga + -ine².] An alkaloid extracted from the Kongo-plant and iboga. It produces anosthesia like cocaine and acts upon the medulla like cola.

and acts upon the medulla like cola.

I. C. An abbreviation of the Latin Iesus Christus, Jesus Christ.

icacin (i-kä'sin), n. [icaco + -in².] A color-less compound, C₄₆H₇₆O or C₄₇H₇₈O, found in elemi resin. It crystallizes in needles which melt at 175° C.

meit at 175° C.

100, n.—Brash ice. See brashl, 4 (b).—Dead ice, ancient lee retained in 'fossil glaciers' or elsewhere under the soil and not moving downward.—Rock ice, ice of ancient origin, interbedded with detrital layers. Geog. Jour. (R. G. S.), XII. 167.—Sludge ice, soft crystals which are formed by the frost when it first attacks the ruffled surface of the ocean.—Stone ice. Same as dead **ice.—The great ice, an ice-sheet; a continental glacier, as in Greenland.—To cut ice. See *cut.

Engineers.

Engineers.

Iceberg theory, the theory that the distribution of drift and of erratic boulders and the scoring of the underlying rock-surface are accounted for by the movements of icebergs during a period of continental submergence: now generally replaced by the *glacial theory (which see).— Tabular iceberg, an even-topped iceberg of considerable size. Such bergs are common in the antarctic seas and are derived from the south polar ice-sheet.

ice-bird, n. 2. The Indian goatsucker, Caprimulgus asiaticus: so called because its note resembles "the sound of a stone scudding over ice."

over ice.

over ice."

ice-blindness (is'blind'nes), n. Same as snowblindness. Buck, Med. Handbook, IV. 13.

ice-block (is'blok), n. In geol., a portion of a
retreating glacier, isolated by melting.

ice-bolt (is'bolt), n. A sudden descent of ice;
an avalanche; figuratively, a sensation as of
the sudden chill of piercing cold.

glacial period. Lyell.

ice-breaker, n. 4. A hand- or power-machine
for breaking ice into small fragments for various uses

ice-calk (is'kak), n. Same as calk's, 2. ice-can (is'kan), n. A large, deep, and narrow sheet-iron can designed to hold the distilled water used in making ice. The can is sunk in the cold brine of the freezing-tank and remains there until its contents are frozen.

its contents are rosen.

ice-cave (īs'kāv), n. 1. A cave in which ice is formed in sufficient quantity to outlast the warm season; a glacière.—2. A hollow under the end of a glacier, whence the glacial stream flows out.

The term "ice-cave," in the author's opinion, should especially apply to the hollows in the ice at the lower end of glaciers, whence the glacier waters make their exit.

Geog. Jour. (R. G. S.), IX. 670

ice-chipper (is'chip'er), n. A hand-tool consisting of a combined knife and chisel for chopping ice into fragments.

ice-cliff (is'klif), n. 1. The precipitous front of a tide-water glacier.—2. A cliff formed by marine erosion, in arctic regions, where the land consists of ice with more or less interstration and overlying detries. stratified and overlying detritus.

ice-cloud (is'kloud), n. A cloud composed of fine globules of ice, or of globules of water colder than ice, which on touching any solid body adhere as frostwork; a frost-cloud; a rime-cloud: often a very low stratum of ice fog.

ice-craft (is'kraft), n. Skill in traveling on ice, or in dealing with its dangers, as in arctic exploration or mountain-climbing. Daily News,

March 5, 1890. N. E. D. ice-creeper (īs'krē"per), n. Same as creeper,

Iced liver, heart, etc., chronic inflammation of the serous membrane covering the liver, heart, etc., accompanied by a fibrinous exudation resembling the icing on cake. *Med. Record*, Feb. 14, 1903, p. 273.

ice-dike (īs'dīk), n. A crevice in a glacier which becomes filled with ice of secondary or

which becomes filled with ice of secondary or later development and strongly resembles a mineral vein. W. H. Sherzer.

ice-dock (is'dok), n. A basin in the ice, either natural or sawed out with ice-saws, sufficiently large to accommodate a ship. Such 'docks' are often made by navigators in the polar regions in order to avoid being pinned or nipped between two closing floes.

two closing noes.
ice-drag (is'drag), n. A hooked iron instrument planted in the ice ahead of a vessel,
used like a kedge-anchor in warping her along.

used like a kedge-anchor in warping her along.
ice-dump (is'dump), n. A sheet-iron tank
containing a sloping grid in which an ice-can
with its ice-block is upset to cause the block
to slip out of the can. See *ice-can.
ice-farm (is'färm), n. A body of water with
the necessary buildings, devoted to the production of ice for the market; in India, a place
where ice is obtained by allowing water to
freeze, at night in shellow sewthenware page

where lee is obtained by allowing water to freeze, at night, in shallow earthenware pans. Sci. Amer., Jan. 25, 1908, p. 58.
ice-fender (īs'fen'der), n. A fender or guard for protecting a vessel from injury by ice.
ice-fish (īs'fish), n. 1. A little fish, the caplin, Mallotus villosus, of the family Argentinidæ, living in arctic American waters and much valued as food. See caplin?. [Rare.]—2. A small translucent fish, Salanx microdon, of the rivers of Japan and China. rivers of Japan and China.

ice-fog (is'fog), n. A fog produced by wind blowing over fields of ice.
ice-front (is'frunt), n. The border of a glacier

or ice-sheet.

or ice-sheet.

ice-gorge (is'gôrj), n. 1. A blockade of ice in a river.—2. A narrow, steep-sided gorge in whose bottom, amid large fallen rocks, ice forms in the winter and endures until late in the summer or longer. Ice-gorges occur in a number of localities in New England and New Valle. York.

York.

ice-guard (is'gärd), n. In lumbering, a frame or fence of heavy timbers set sloping about a cluster of boom-piles, to prevent the destruction of the boom by ice. The timbers are securely fastened to the top of the boom-piles: the other end rests on the bed of the lake or stream, at an angle of about thirty degrees to the surface of the water. The ice is forced to mount the guards and is so broken up.

ice-gush (is'gush), n. A mass of mingled ice and water standing at the bottom of a crevasse in a glacier.

in a glacier.

Now and then a horse will lose his footing and slide down to the bottom with a rush, but never once did one of them refuse to climb out of an ice-gush when called upon to do so, although many times they left a trail of blood behind them where they had been cut and bruised in their fall. Jour. Franklin Institute, Oct., 1904, p. 304.

ice-hill, n. 2. A large mass or mound of ice of

indefinite height. - 3. An artificial tobogganslide.

The Russians are extremely fond of this amusement, and often have these ice-hills erected at some village at a little distance from the town.

Englishwoman in Russia, p. 215. N. E. D.

Baglishwoman in Russia, p. 215. N.E. D.

ice-hockey (is'hok'i), n. A game, developed from field-hockey, played on ice, either on open ponds or in rinks. It is usually specified that the rink shall be at least 112 feet long by 58 feet wide. A team is composed of 7 men, 4 forwards or rushers, who carry the attack, and 3 others, called cover-point, point, and goal-keeper, whose work is principally defensive, although the cover-point often backs up or 'feeds' the rushers or forwards. The ice-surface for this game may vary in length or breadth. If played in a rink, goals are erected at either end and the surface is bounded by planking 2 feet or more in height. The sticks which the players use are made of ash, curved at the end; the curved part is formed into a blade less than 13 inches in length and 3 in width, which rests upon the surface of the ice, allowing about a foot of the stick upon the ice. The puck, as it is called, is a disk of vulcanized rubber 3 inches in diameter and 1 in thickness, which is slid along the ice, although it can be lifted by a wrist motion.

See *marking a groove in ice which is to be cut into blocks. It is guided by a gage which runs in the last-plowed groove.

Ice-marking (is'mār'king), n. Same as ice-m

center of the field of play. This consists in placing the puck on the middle point of the field between the sticks of two opposing center forwards. The referee calls play, and each man then strives to gain possession of the puck and pass it to players of his own side. The forwards are usually divided into two centers and two wings, and the puck is shot diagonally across the surface from one player to another. The players use both hands on the stick, and a good player rarely resorts to a one-hand use of the stick. No player is allowed to raise his stick above the shoulder. The puck may be advanced by the use of the stick, but it may be stopped by the skate or the body. The goal-tender stands between the goal-posts, and the rule provides that he must not lie, sit, or kneel upon the ice, but must maintain a standing position. His play consists in defending the goal and shooting the puck off from one side to the other when the goal is in danger. There is a referee who has charge of the play: two goal-umpires, one at each end, decide whether the puck passes through the goal. Rules for off-and on-side play prevail in hockey; that is, a player must always be on his own side of the puck, and is off-side if he is nearer the opponents' goal-line than the player of his own team who last hit the puck, in which event he is not allowed to touch it or interfere or obstruct an opponent until again on-side. He is put on-side when the puck has been touched by an opponent, or when he has skated behind one of his own side who either has possession of the puck or played it last when behind the offender. Body-checking, blocking, and interfering when on-side are allowed. Charging from behind, tripping, collaring, kicking, and cross-checking are not allowed. The final result is determined by the number of goals scored in the two halves.

which is liable to be closed at any moment by the movement of the ice.

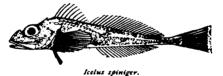
ice-line (is'lin), n. In thermodynam., a curve showing the pressure at which for any temperature a mixture of ice and water will be in stable equilibrium. W. Watson, Text-book of

Physics, p. 267. the prot fallen fro of an ice-sheet with a convex front, the advance ice-ram of which is due to its having moved along lower ground than that on either side. Thus the continental ice-sheet of the glacial period in North America was divided into various ice-lobes, along its southern margin, known as the Michigan lobe, the Green Bay lobe, etc. See *lobe.

The relation of the Michigan, Saginaw and Huron-Erie w-lobes in lower Michigan during the Wisconsin stage of laciation. Science, Feb. 6, 1903, p. 224.

ice-locomotive (īs'lō-kō-mō'tiv), n. A locomotive or motor-car having spurs or teeth on its driving-wheels to enable it to travel on

Icelus (is'e-lus ?), n. [NL. (Kröyer, 1845), < Gr. Ίκελος, Icelus, son of Hypnus, the god of



(From Bulletin 47, U. S. Nat. Museum.)

sleep.] A genus of fishes belonging to the family Cottidæ, found in the North Atlantic and Pacific. I. bicornis is the best-known species. I. spiniger is a species found in Bering

iceman. n. 3. An official whose duty it is to keep the ice on a skating-pond in order and to assist those who meet with accidents while skating. See *ice-master, 2.

A rescue by the icemen belonging to the Royal Humane ociety.

All the Year Round, 1860, p. 292.

ice-marker (is'mär'ker), n. A plow-shaped device for marking a groove in ice which is to be cut into blocks. It is guided by a gage

The ice-pans appear to drift capriciously arward, without any apparent cause.

Geog. Jour. (R. G. S.), XVIII. 40.

A headd of small

ice-pigeon (is'pij'on), n. A breed of small domesticated pigeons whose prevailing colors are pale bluish lavender, with faint lacings or spangles. The feet are heavily feathered save in the variety known as the *Ural*.

ice-pillar (īs'pil'ār), n. The pedestal of a glacier table.

ice-pipe (is'pip), n. Same as ice-master, 1. ice-pipe (is'pip), n. A projecting tube of ice which is produced by frost in regions whose which is produced by frost in regions whose surface soil is a tough, water-soaked clay. The upper layer of the soil is first frozen soild for a shallow depth. As the frost solidifies and expands the lower-lying layers, the neighboring water is forced to spurt through the crust at innumerable points, freezing as it emerges and forming the ice-pipes. Van Hise, U. S. Geol. Surv. Monographs, XLVII. 444.

[ce-plank (is'plangk), n. A bridge on the deck of an arctic vessel, crossing from one side to the other; a spike-plank.

[ce-plant. n.—New Zealand ice-plant. Same as

New Zealand ice-plant. Same as New Zealand ice-plant. Same as New Zealand spinach (which see, under spinach).— Tasmanian ice-plant, the Victorian bower-spinach, Tetragonia implexicoma. See Australian spinach, under

result is determined by the number of goals scored in the two halves.

ice-jam (īs'jam), n. A mass of fragments of river ice piled irregularly by the current, so as to obstruct its flow.

Iceland agate. See *agate².

ice-lead (īs'jed), n. A temporary channel leading into or entirely through an ice-field, which is liable to be closed at any moment by bows of tugboats and similar vessels in winter to assist in breaking the ice and to protect the bows from injury. Also false bow and iceram

in ice-pyramid (is'pir'a-mid), n. The form as-cof sumed by a pedestal of ice on a glacier, after the protecting slab of stone or debris has fallen from it.

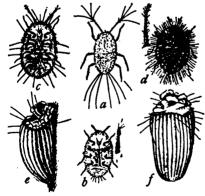
ram), n. Same as *ice-prow. Icerya (is-e-ri'ä), n. [NL. (Signoret, 1875), \(\mathbb{F}\). Icery, a proper name. A noted genus of Coccidæ of the subfamily Monophlebine, usually covered with wax and discoreting their eggs in a long waxen mass which is often longitudinally



Fluted Scale (Icerya purchass), male series.

a. male insect, with greater enlargements of base of wing and foot at b and c; d, second stage of larva; e, pupa; f. cocoon. Enlarged about five times. (Riley, U. S. D. A.)

ribbed. Twenty
species are known, and some of them are noted pesta. I.
purchasi of Australia, South Africa, New Zealand, California, and Portugal is the famous fluted scale, white scale, or
oushion-scale (see cushion-scale) which was brought under



Fluted Scale (Icerya purchasi), semale series illustrating development of semale insect from young larva to adult gravid stage.

s. newlyhatched larva; b. second stage; c. third stage; d. full-grown semale; c. f. same after secretion of egg sac. All (except antennæ) about twice natural size. (Riley and Marlatt, U. S. D. A.)

control in California, South Africa, and Portugal by the introduction of the Australian ladybug, Vedalia (Novius) cardinalis. Other noted species are I. ægyptiacum, I. seychellarum, and I. moniserratensis. See Australian hands with out caramatus. Other notes species are I. zgyptiacum, I. seychellarum, and I. montserratensis. See Australian *kladybug, with cut.

ice-scooter(is'skö'tèr), n. A craft, a combina-

tion of sailing-yacht and ice-boat, peculiar to Long Island. It sails as well in water as on ice, and may be run from one element to the other without change of rig or appliances. On the flat hull of the boat steel runners are fitted, as on an ice-boat. The boat may

superfamily.

Ice-scooter.

A. boat in motion: B. boat, placed so as to show bottom of hull with steel runners.

A. boat in motion is boat, placed so as to show bottom of hull with steel runners.

Be steered either by the one head-sail or by an oar-shaped metal blade trailed over the stern, which acts as a rudder when in the water, and when on the loce cuts into the surface on one side of the keel-line or the other as may be run alternately through water and over ice, as their speed allows them to climb out of the water without any assistance other than their own momentum, ce-scouring (is' skour'ing), n. The general process of abrasion and erosion by means of glaciers.

superfamily.

ichneumonologist (ik-nū-mō-nol'ō-jist), n.

[ichneumonologist (ik-nū-mō-nol'ō-jist), n.

[ichthyolate (ik'thi-ol-lat), n.

[ichthyolate. It is used in medicine.

ichthyoloti (ik'thi-ol-oil), n. A brownish-neumon.

ichneumonologist (ik-nū-mō-nol'ō-jist), n.

[ichneumonology + -ist.] One who is versed in the study of the Ichneumonoidea.

Ichthyolate (ik'thi-ol-lat), n.

ichthyolate (ik'thi-ol-lat), n.

ichthyolate. It is used in medicine.

ichthyolate (ik'thi-ol-oil), n. A brownish-neumon.

ichthyolate (ik'thi-ol-oil), n. Chivology, yellow, syrupy liquid, with penetrating bitu-minous odor and taste, which results from the destructive distillation of a bituminous rock containing fossil fish found near Seefeld in the two tracks his game.

ichthyolate (ik'thi-ol-oil), n. A brownish-tokeneumonoidea.

Ichthyolate (ik'thi-ol-oil), n. Chivology, yellow, syrupy liquid, with penetration to the study of the tracking or the tracks, specially fossil frails, such as those found in the sandstones of the Connecticut va

ice-scouring (is'skour'ing), n. The general process of abrasion and erosion by means of

Ice-scouring during maximum glaciation reached far up the mountain slopes above the trough walls, but was with-out great influence on form.

Science, April 5, 1901, p. 552.

ice-scraper, n. 2. An implement of the Alaskan Eskimos consisting of a handle to which are attached several seal claws: used by hunters, who imitate the movements of the seal, to produce the noise made by basking seals.

ice-shed (is'shed), n. The dividing-line from

which the ice of a continental glacier moves in opposite directions.

ice-aky (is'ski), n. A bright whitish sky in polar regions, near the horizon, indicating the existence of a distant field of ice or snow.

ice-spur (is'sper), n. A device worn on a shoe the property of the latter
to prevent slipping on an icy surface. Minshou.
ice-storm (is'storm), n. A fall of ice, or of
sleet turning to ice, or of hailstones and larger
agglomerated masses of ice; a storm in which
falling rain freezes upon the objects which it touches.

ice-tongue (is'tung), n. 1. A lobe of a glacier. See *ice-lobe.

U. S., p. 286.
ice-vein (īs'vān), n. Same as *ice-lead.
ich. An abbreviation of ichthyology.
Ichabod (ik'a-bod), n. [LL. Ichabod, < Heb.
Ikhabōd, < ī, not, + khabōd, glory. The allusion is to 1 Sam. iv. 21: "And she named the child Ichabod, saying, The glory is departed from Israel."] A Hebrew name (see etym.)
used allusively in various connections, especially in the phrase to say Ichabod (to or of a thing), implying that its glory has departed.
"Whenever Wilmot Edge is away the curries of this

"Whenever Wilmot Edge is away, the curries of this club go to the devil."... He pushed away his plate.
"Bring me some cold beef," he commanded, and the watter brought it with an air that said "Ichabod" for the Imperim.

Anthony Hope, Tristram of Blent, xxi.

ichabodiad (ik-a-bod'i-ad), n. [Ichabod + -i-ad, as in Iliad, Jeremiad, etc. The allusion is to 1 Sam. iv. 21: see *Ichabod.] A lamentation for the fall or deterioration of something.

Leader-writers, contributors to magazines, British consuls, popular authors of jerem lads and ichabodiads write on this subject [geographical conditions affecting British trade], if not with unanimity, at least, for the most part, with a harmony that must be, and in fact is, very comforting to our competitors, but far from cheering to the representatives of British trade and industry.

Geog. Jour. (R. G. S.), XVIII. 425.

ichhu (ēch'hö), n. [Also ichu; Quichus ichhu.]

Same as *puna-grass.

ichiban (6'chi-ban), a. [Jap. ichi-ban, number one, the first, the best, < ichi, one, + ban, a suffix indicating number.] Number one; the first; the best.

ichneumonize (ik-nū'mon-īz), v. t.; pret. and of any given region pp. ichneumonized, ppr. ichneumonizing. [ich-ichthyographer (ineumon + -ize.] To parasitize, as with a ography + -erl.] member of the family Ichneumonidæ. on fishes. ichneumonoid (ik-nū'mon-oid), a. and n. I. a. Ichthyoid curve.

Ichneumonoidea (ik-nū-mō-noi'dō-ṣ), n. pl. [NL., < Ichneumon + -oidea.] The hymenopterous family Ichneumonidæ considered as a superfamily

see Piscidia. See Piscidia. See Piscidia. See Piscidia. See Piscidia. Ithe gingko or maidenhair-tree of Japan, Ginkgo biloba. It is cultivated partly for its fruits, the kernels of which are eaten, but principally for the adornment of temple courts and cemeteries. Its wood is $G(x) = \frac{1}{2} \int_{0}^{\infty} \frac{1}{2} \int_{0}^$ of a bright-yellowish color, fine-grained, capa-ble of polish, tender and easily broken, and therefore not so highly prized as the woods of many other native trees.

ichthalbin (ik-thal'bin), n. [ichth(yol) + alb(umen) + -in².] A grayish-brown, odorless and almost tasteless powder made by precipitating a solution of ichthyol and albumen with mineral acids; ichthyol albuminate: used as an antiseptic (internal and external).

ichthargan (ik-thär'gan), n. [ichth(yol) + Gr. $\dot{a}\rho\gamma(v\rho\dot{a}c)$, silver, + -an.] A trade-name of silver ichthyol sulphonate. It is used in medicine.

ichthoform (ik'thō-fôrm), n. [ichth(y)o-(sul-phonic) + form(aldehyde).] A dark-brown, odorless and tasteless powder obtained by treating ichthyosulphonic acid with formaldehyde solution: a surgical and intestinal antieptic

This book will consist of a detailed description of about fifteen Greenland ice-tongues, and of a portion of the main ice cap, dwelling especially upon the significant features.

2. A submerged mass of ice which projects horizontally from an iceberg.

3. A tub-shaped receptacle it is similar in composition to avvitellinic acid; like this it is probably a paranucleinic acid.

3. Contact of the description of about inch bulling in the contact of the cont

ichthyization (ik"thi-ī-zā'shon), n. ["ichthyze ($\langle Gr. i\chi\theta i\varepsilon, fish, +-ize \rangle + -ation.$] The process of evolution of the typical fish-like characters; the development of those traits which

ichthyobatrachian (ik'thi-ō-ba-trā'ki-an), a. [Gr. $i\chi\theta i\varsigma$, fish, $+\beta a\tau\rho a\chi\sigma\varsigma$, frog. +-ian.] Combining the characters of fishes and batrachians;

Ichthyobdellidæ (ik'thi-ob-del'i-dē), n. pl. [NL., < Ichthyobdella + -idæ.] A family of marine and fresh-water leeches, parasitic for the most part on fishes. The body may be cylindrical and consist of a narrower anterior and a wider posterior region, or it may be dorsiventrally compressed. The anterior and posterior suckers are distinct from the body. It includes several genera, among them being Ichthyodella, Branchellion, Pontobdella, Cystibranchus, and Macrobdella.

See *curve.

Belonging to or having the characters of the superfamily Ichneumonoidea.

II. n. A member of this superfamily.

Ichneumonoidea (ik-nū-mō-noi'dē-ā), n. pl. [NL., \langle Gr. $i\chi\thetaig$, fish, + iidog, form.] A suborder of anurous aquatic Amphibia having amphicelous terous family Ichneumonidæ considered as a superfamily Ichneu

aperture, and small eyes without distinct lids. ichthyolate (ik'thi- \bar{o} -lāt), n. [Gr. $^{1}\chi\theta^{i}\kappa$, fish, +-ol +-ate¹.] The trade-name of magnesium ichthyolate. It is used in medicine. ichthyol-oil (ik'thi-ol-oil), n. A brownishyellow, syrupy liquid, with penetrating bituminous odor and taste, which results from the destructive distillation of a bituminous rock containing fossil fish found near Seefeld in the Twol

Ichthyomyzon (ik'thi-ō-mi'zon), n. [NL., ⟨Gr. iχθίς, fish, + μύζων, ppr. of μύζειν, mut-ter.] Agenus of lamprey eels which inhabit the fresh waters of the eastern United States. ichthyonomy (ik-thi-on'ō-mi), n. [Gr. $i\chi\theta\nu_{\zeta}$, fish, $+\nu\delta\mu_{0\zeta}$, arrangement.] The arrangement of fishes according to their relationships.

on names according to their relationships.
ichthyophagian (ik'thi-ō-fā'ji-an), a. [ichthyophagi + -ian.] Of or pertaining to ichthyophagi, or fish-eaters; characterized by the eating of fish, as "ichthyophagian banquets," Badham, Halieutics, p. 137.
ichthyophagic (ik'thi-ō-faj'ik), a. Same as ichthyophagous

ichthyophagous.

ichthyophagite (ik-thi-of'a-jit), n. [ich phag-y +-ite².] Same as ichthyophagist.

phag-y +-te².] Same as ichthyophagist.
ichthyophagize (ik-thi-of'a-jīz), v. i.; pret. and pp. ichthyophagized, ppr. ichthyophagizing. [ichthyophag-y +-ize.] To feed on fish.
ichthyophobia (ik'thi-ō-fō'bi-ä), n. [NL., \langle Gr. $i\chi\theta\nu$, fish, +- ϕ o β ia, \langle ϕ o β e $i\nu$, fear.] An extreme dislike either of handling or of eating

ichthyopolism (ik-thi-op'ō-lizm), n. [ichthyopol-ist + -ism.] The business of selling fish. ichthyopolist (ik-thi-op'ō-list), n. [Gr. $i\chi\theta\nu\sigma$ - $\pi\omega\lambda\eta\sigma$, a fish-seller, $\langle i\chi\theta\nu\sigma$, fish. + $\pi\omega\lambda\epsilon\nu$, sell, + -ist.] A fish-seller; a fish-dealer.

nain ice cap, dwelling especially upon science, Aug. 5, 1904, p. 188.

2. A submerged mass of ice which projects horizontally from an iceberg.

ice-tub (is'tub), n. A tub-shaped receptacle of earthenware or glass for holding cracked ice. E. A. Barber, Pottery and Porcelain of U. S., p. 286.

ice-vein (is'vān), n. Same as *ice-lead.

ice-vein (is'vān), n. Same as * fish. It is usually accompanied by diarrhea and eruption of the skin, and is caused by the formation of leucomaines through the influence of bacteria. Jordan, Study of Fishes, I. 183.

cess of evolution of the typical fish-like characters; the development of those traits which render an organism more and more definitely and completely a fish. D. S. Jordan.

ichthylepidin (ik-thi-lep'i-din), n. [Gr. $i\chi\theta\nu_{\zeta}$, fish, $+\lambda\epsilon\pi\iota_{\zeta}$ ($\lambda\epsilon\pi\iota_{\zeta}$), scale, $+\iota_{z}$ An albuminoid found in the scales of fishes.

ichthyosulphonic (ik'thi- \bar{o} -sul'f \bar{o} -n \bar{a} t), n.

[Gr. $i\chi\theta\nu_{\zeta}$, fish, $+\beta\epsilon\tau\rho\alpha\chi_{\zeta}$, frog, $+-i\epsilon n$.] Combining the characters of fishes and batrachians; in the characters of fishes and batrachians; with a seturated solution of common self-superior of common self-superi with a saturated solution of common salt, whereby sulphurous and sulphuric acids are removed. Also ichthyol-sulphonic acid.

bining the characteristic bining the charac It contains several species parasitic in freshwater fishes. Lönnberg.

[NL., < Ichthyotænidæ (ik"thi-ō-tē-nī'i-dē), n. pl. [NL., < Ichthyotænia + -idæ.] A family of cestode worms, of the order Tetracotylea, having acetabulate suckers. It contains the genera Ichthyotænia and Corallobothrium, parasitic in the contains the second contains in fishes. See cut on next page.

A

B

6

d

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Ichthyotomi (ikthi-ot'ō-mī), n. pl. [NL., ζ Gr. iχθυς, a fish, + -τομος, ⟨ ταμείν, cut.] An order of selachian fishes having well-calcified endoskeleton, pterygoquadrate mova bly articulated articulated with the cranium. pectoral fins with segmented axis, and diphycercal tail. Members of the order are mostly of late Paleozoic age, but some occur in the early Meso-

zoie.

ichthyotoxicon
(ik 'thi-ō-tok 'si-pimelodus parti (after Riggenbach), of kon), n. [Gr. A, side view: B, viewed from above (compiled from Riggenbach's descriptoscho, poison.] in and figures; a acetabulum; δ. poisonous substance in some the color and hiding stance in some fishes, the cause of reigning by the continuous fishes, with the continuous fishes.

nsnes, the cause of poisoning by the eating of fish. Vaughan and Novy, Cellular Toxins, p. 188.

ichthyotoxicum (ik'thi-ō-tok'si-kum), n. Same as *ichthyotoxicon.

ichthyotoxin (ik'thi-ō-tok'sin), n. Same as *ichthyotoxicon.

*ichthuotoxicon.

icican (is'i-kan), n. [icica + -an.] A crystal-line resin obtained (by further concentration after the separation of brean) from the alco-

atter the separation of breah) from the alcoholic solution of the oleoresin of icica.

Icla shales. See *shale?.

Icon. An abbreviation (a) of iconographic;
(b) of iconography.

iconodulic (i-kō-nod'ū-lik), a. [iconodul-y +
-ic.] Relating to the veneration of icons or

iconodulist (ī-kō-nod'ū-list), n. [As iconodul-y

iconodulist (ī-kō-nod'ū-list), n. [As iconodul-y + -ist.] A venerator of icons or images iconoduly (ī-kō-nod'ū-li), n. [NGr. *εἰκονοδου-λεία, ⟨Gr. εἰκῶν, an image, + ἀναλεία, service, worship.] The veneration of images. iconological (ĩ'kon-ō-loj'i-kal), a. [iconolog-y + -ic-al].] Relating to iconology.

One of the most remarkable features of this restoration [of Spire's cathedral] has been the entire ornamentation of the interior with frescoes. . . [A] . . detailed account of this great iconological work is from the pen of an accomplished correspondent.

The Ecclesiologist, XV. 25.

iconomania (1'kon-ō-mā'ni-ā), n. [NL., < Gr. εἰκών, an image, + μανία, madness.] An exaggerated devotion to icons or images; a mania

for collecting icons.
iconomatically (i-kon-ō-mat'i-kal-i), adv. With

reference to an icon, image, or picture. [Rare.] That it [kan symbol] is not used ikonomatically here is evident, as kan in Mays is not a name for malze or grain of maize.

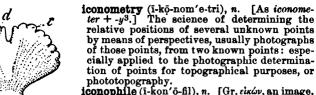
An. Rep. Bur. Am. Ethnol., 1894-96, p. 227.

iconometer (î-kō-nom'e-ter), n. [Gr. $\epsilon i\kappa \omega \nu$, an image, $+\mu \epsilon \tau \rho o \nu$, measure.] An instrument used to facilitate the determination of



the true relative position of a series of unthe true relative position of a series of unknown points from two perspectives, usually photographs of those points, taken from two known points or stations. A pipe graduated in millimeters and about 20 centimeters long is fitted with a diopter and a movable light frame. Both of these may be placed within the pipe for convenient carrying.

iconometric (i-kon-ō-met'rik), a. Of or pertaining to the incomposition of the incomposition of the incomposition. ing to the iconometer or to iconometry; obtained by means of the iconometer.



phototopography.

iconophile (i-kon'ō-fil), n. [Gr. εἰκών, an image, + φιλεῖν, love.] Same as iconophilist.

iconophily (i-kō-nof'i-li), n. [iconophile + -y³.]

Same as iconophilism.

Same as iconophilism.
iconoplast (i-kon'ō-plast), n. [Gr. εἰκών, an image, + πλαστός, formed.] One who makes images or icons. [Rare.]

He [Pattison] could not, like Renan and especially like Matthew Arnold, be a thorough iconoclast, and yet delude himself into thinking that he was (if I may coin such a word) an iconoplast all the time.

Literature, Jan. 8, 1898, p. 24.

iconoscope (ī-kon'ō-skōp), n. [Gr. εἰκών, an image, + σκοπείν, view.] A device attached to a camera, which shows in reduced scale an image of an object to be photographed; a finder. It permits a choice of point of view

finder. It permits a choice of point of view and arrangement.

cosane (i'kō-sān), n. [Gr. εἰκοσι, twenty, + -ane.] A colorless hydrocarbon of the methane series, $C_{20}H_{42}$, obtained from brown coal paraffin. It melts at 36.7° C. and boils at 205° C. under 15 millimeters pressure. Also called eicosane.

called eicosane.

icosinene (i-kos'i-nēn), n. [Gr. είκοσι, twenty, +-in² +-ene.] Saine as *eicosylene.

icositetrahedroid (i'kō-si-tet-ra-hō'droid), n. [icositetrahedr-on + -oid.] The four-dimensional analogue of the icositetrahedron.

icotype (i'kō-tīp), n. [Gr. εἰκός, likely (like), + τἰπος, type.] In the nomenclature of types in natural history, a specimen that has not been used in literature but serves for identification with the original sional analogue of the icositetrahedron. icothyotoxism (ik'thi-ō-tok'sizm), n. [NL., ichthyotoxismus, \langle Gr. $i\chi\theta ic$, fish, $+\tau o\xi(u\delta v)$, poison, + L. -ismus, E. -ism.] Fish-poisoning; poisoning resulting from the eating of fish. ichthytaxidermy (ik-thi-tak'si-der-mi), n. [Gr. $i\chi\theta ic$, fish, + E. taxidermy.] Taxidermy as applied to fishes.

I. C. S. An abbreviation of Indian Civil Service.

Ictalurins (ik'ta-lū-rī'nē). n. pl. [NL., < Ictalurus + -inæ.] A subfamily of catfishes characterized by having a barbel on the posterior nostril: found chiefly in the eastern United States.

Ictalurus (ik-ta-lū'rus), n. [NL., a contraction of *Ichthyælurus, < Gr. ἰχθυς, a fish, + αἰλουρος,



(From Bulletin 47, U. S. Nat. Museum.)

A genus of fishes of the family Siluridæ, commonly called catfishes. They are notable for the forked tall and silvery coloration, and are confined to the eastern United States. The commonest species is the channel-cat, *I. punctatus*. icteric, n. 2. One who is suffering from icterus or jaundice.

icterode (ik'te-rōd), a. [Gr. ἰκτερώδης, < ἰκτερος, jaundice, + εἰδος, form.] Affected with jaundiced.

icterogenic (ik'te-rō-jen'ik), a. jaundice, +-yevhs, -producing.] terus or jaundice.

Icteroid bacillus. See *bacillus. [Gr. lκτερος, Causing ic-

ictic, a. 2. to the ictus. 2. In pros., produced by or relating

to the ictus.

ictuate (ik'tū-āt), v. t.; pret. and pp. ictuated,
ppr. ictuating. [ictus (ictu-), stroke, +-ate².]

To put the ictus on.

Ictus cordis, the pulse.— Ictus sanguinis, a stroke of apoplexy.

id (id), v. [G. id (Weismann, suggested by idioplasm), (Gr. idioc, own, proper, peculiar: see idiot.] In Weismann's doctrine of germ-plasm, the substance of inheritance or the bearer (a), in the germ-plasm of the hereditary qualities. in the germ-plasm, of the hereditary qualities of a single complete organism, or (b), in the somatic idioplasm of the hereditary qualisomatic idioplasm of the hereditary quali-ties of a group of cells or a part of a developing embryo or growing organism. The term is used therefore with two meanings—to designate the bearer of the hereditary qualities of the an-cestral idioplasm, or germ-plasm, which may give rise to a new and complete organism, and to designate the bearer of the hereditary qualities of the idioplasm of successive stages in the development and growth of the organism that arises from the egg. The id of this somatic idio-plasm is held to be at first identical with that of the germ-

plasm, but to become broken up into simpler and simpler ids as development advances. See idioplasm, doctrine of *germ-plasm.

The supposed function of the ids as the bearers of hereditary qualities in fertilization.

Encyc. Brit., XXVII. 335.

hereditary qualities in fertilization.

Encyc. Brit., XXVII. 335.

Heterologous id, in Weismann's doctrine of germ-plasm, one of the ids which are the bearers of the hereditary qualities of groups of cells which are not homologous.—

Romologous id, in Weismann's doctrine of germ-plasm, one of the ids which are the bearers of the hereditary qualities of homologous groups of cells. Weismann (trans.), Germ-plasm, p. 265.

-id1. 2. This termination is to be given to the relatively electronegative constituent of a compound: as, hydrogen oxid (not oxygen hydrid), calcium sulphid (not sulphur calcid).

-id2. 2. This termination affords a simple and regular method of transforming a family name ending in ids into a common 'English' noun serving as a name for any member of the family. Thus, any member of the Felids is a felid, any of the Bradypodids a bradypodid, any of the Gadids a gadid, etc. This overcomes the ambiguity of using the popular name of some member of the family as a common name for all. The popular name is often not conterminous in meaning with the New Latin name and it always has a set of cross associations that are absent from the New Latin name. The two kinds of names do not cover the same ground. Every member of the Bradypodids is a sloth, but not every member of the Bradypodids is a sloth, but not every member of the Gadids is a cod, as several other well-known fishes, such as the pollack and haddock, are members of that family.

3. A termination used by Osborn to designate the cusps of the lower teeth: for example, the cusp on a lower molar that corresponds to the hypocone of an upper tooth is the hypoconid etc.

the hypocone of an upper tooth is the hypo-

conid, etc. An abbreviation of Idaho.

Ida. An abbreviation of *1aano*.

Idæan, a.—The Idæan mother, the goddess Cybele, who had her sanctuary on Mount Ida.

idant (id'ant), n. [id + -ant] 1. A group of ids or bearers of the hereditary qualities of an idea of the sanctuary in the germ-plasm or subids or bearers of the hereditary qualities of an individual organism in the germ-plasm or substance of inheritance. Weismann holds the conception of the idant, or group of ids, to be necessary to account for the production of germ-cells in the body of an organism developed from a single id. In assxual organisms all the ids in an idant are supposed to be alike, but different in organisms that have long multiplied by sexual reproduction, so that the children of the same parents are not commonly identical. See *Weismannism, doctrise of *germ-plasm.

In the first place, the mass of germ-plasm which is the starting-point of a new individual consists of several, sometimes of many, pieces named "idants," which are the chromosomes, into a definite number of which the nuclear material of a dividing cell breaks up. These idants are a collection of "ids," which Weismann tentatively identifies with the microsomata contained in the chromosomes.

Encyc. Brit., XXIX. 256, 257.

2. Figuratively used in sociology to designate certain naturally selected individuals of nate certain naturally selected individuals of differing classes or races, who seek each other in reproduction, and so create a new stock, as idants (chromatic bodies) in the reproduction cell do in biological reproduction. L. F. Ward, Pure Sociology, p. 208.

iddingsite (id'ingz-īt), n. [Named after Professor Joseph P. Iddings, an American miner-classical Artifacts of the production and production of the
alogist.] A silicate of iron, calcium, and magnesium found in the augite-andesite of Carmelo Bay, California. It is probably an alteration-product of olivin.

idea, n.—Dominant idea, in psychol., an imperative or insistent idea; an idea that dominates or besets the mind, in spite of all effort to inhibit it and in spite of one's assurance of its unreasonable character.

There is no end to the strange performances which may be thus called forth; but they are all referable to the one simple principle already laid down as the characteristic of this state, the possession of the mind by a dorasinant idea.

W. B. Carpenter, Mental Physiol., p. 556.

Extensive idea, in psychol., a temporal or spatial idea. Spatial and temporal ideas are immediately distinguished from intensive ideas by the fact that their parts are united . . . in a definitely fixed order . . Ideas with such a fixed arrangement are called in general extensive ideas. W. Wundt (trans.), Outlines of Psychol., p. 102.

Fixed idea. (a) A delusional idea or train of thought which dominates the mind in certain forms of insanity; a monomania. (b) Same as imperative *idea (a).— Flight of ideas. See *flight!.— Free idea, in exper. psychol, an idea or representation which is dissociated from sense-perception or presentation, and from the organic impulses connected with sense-perception, and which may therefore take its place in an associative train, may be utilized in the process of discrimination, etc.

It [the investigation] has denied the existence in animal consciousness of any important stock of free ideas or impulses, and so has denied that animal association is homologous with the association of human paychology.

E. L. Thorndike, Animal Intelligence, p. 108.

E. L. Inormare, Animal Intelligence, p. 108. Imperative idea. (a) A persistent or obsessing idea or train of thought which the subject cannot hanish or escape, though he recognizes its falsity or triviality. Imperative ideas exist in all degrees of intensity, from the tune that 'runs in the head' to such obsessions as agoraphobia. (b) Same as fixed **ridea* (a).—Implicit idea, in peychol., the idea or group of ideational elements that fuses with the presentation in the act of perceptica; the ideational associate that raises a datum of sensation to the rank of perception. Höfding.



It [the idea] is, so to say, embryonic, something additional to the mere sensation assimilated, and yet something less than a "free or independent idea." It is, as it has been happily called, a tied (gebundene) or implicit idea.

Encyc. Brit., XXXII. 59.

Insistent idea. Same as imperative *idea.—Intensive idea, in Wundt's psychology, a combination of sensational elements, in which the order of the elements may be indefinitely varied. *W. Wundt (trans.), Outlines of Psychol. p. 93.—Musical idea. See idea, 9, and *metamorphosis, 5.—Secondary idea, in Wundt's psychology, any idea successively associated with the assimilation which forms the core of mediate recognition or the starting-point of an associative train.

The principal idea may be assimilated first, the secondary ideas coming later as revivals of earlier experiences; this is a case of 'association by contiguity.'

W. Wundt (trans.), Human and Animal Psychol., p. 306.

ideal. I. a. 5. In projective geom., infinitely distant.—Ideal black body. See laws of *radiation.—Ideal gas, point. See *gas, etc. II. n. 4. In math., an ideal number. idealics (i-dē-al'iks), n. Sociological knowledge applied to the realization of social ideals. L. F. Ward, Outlines of Sociol., p. 204. Ideational rivalry, in exper. psychol., retinal rivalry; the alternation and partial mutual suppression of different forms, colors, etc., presented under stereoscopic conditions to the two eyes.

In addition to lustre and *ideational rivalry*, there exists yet another form of the apprehension of binocular percep-

W. Wundt (trans.), Human and Animal Psychol., p. 205.

W. Wundt (trans.), Human and Animal Psychol., p. 205. Ideational type. Same as *memory type. E. B. Titchener, Exper. Psych., I. i. 195.— Ideational unity, in Wundt's psychology, the principle in accordance with which the sensations aroused at a given moment are not perceived as a mere medley, but are associated to form ideas, which are then set in temporal and spatial relations; the principle which, under certain abnormal conditions of stimulation, leads in the case of vision to the phenomena of luster and ideational rivalry. W. Wundt (trans.), Human and Animal Psychol., pp. 204, 217.
ideatum (i-dē-ā'tum), n.; pl. ideata (-tā). [NL., neut. of *ideatus, pp. of *ideare, form an idea: see ideate, n.] The thing as imagined, as opposed to datum, the thing as given; theory, as opposed to observed fact. Science, Feb. 26, 1904, p. 336.

as opposed to observed and 1904, p. 336.

Identical points. See *point1.—Identical twins. Se *twin1.

Q in alq., for all values (

identically, adv. 2. In alg., for all values of

the literal quantities.
identifier (i-den'ti-fi-èr), n. One who recognizes and proves the identity of others, especially of criminals.

It was finally determined that the prisoner, attorneys and identifiers should step into a side room.

Evening Dispatch (Columbus, Ohio), May 11, 1889. N. E. D.

identity, n. 2. In math.: (a) The relation of tion. Baldwin, Dict. of Philos. and Psychol., an expression to another symbol for itself: 1.507.

often denoted by three short parallel hori-ideoplasty (i'dē-ō-plas'ti), n. Same as *ideo-zontal lines, \(\equiv \) (derived from the mark of plusy. equality, =).

The symbol = of identity . . . indicates that the single letter on one side of it is used to represent the expression or thing defined on the other side of it.

Newcomb, Calculus, p. 2.

(b) In alg.: (1) A relation of equivalence dependent only upon the very nature of the operations involved, and not at all upon the particular numbers operated with: for example, the identity of ab with ba. (2) An identical equation; an equation for any letter in which any number whatsoever may be substituted without destroying the equality or restricting the values of any other letter: for example, (a + b) + c = a + (b + c).—Identity of forces, the assumed unchanging quality and action of any physical, mental, or social force.—Identity symbol, the symbol = See *identity, 2 (a).—Old Identity, in New Zealand, a well-known inhabitant or frequenter of a place: first used in a popular song in which "Old Identity" was carefully distinguished from "New Iniquity," one who came from Australia.—Rule of identity, the rule by which it is interred that y is x if it has been proved that x is y, that no two x's are the same y, and that there are as many individuals in class x as in class y.

ideo-emotional (i'dē-ō-ē-mō'shon-al), a. Not-ing a mind

as in class y.

ideo-emotional (i'dē-ō-emo'shon-al), a. Noting a mind predominantly emotional and imaginative, but lacking high intellectual development: one of four types of mind each of which is widely enough distributed to constitute a recognizable class in a similar of the family idea and idea (id'i-a-kan'thus), n. [NL., < Gr. idiomorphous (id'i-ō-môr'fus), a. Same as idiomorphic.

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ideogenetic (1'dē-ō-jē-net'ik), a. [Gr. lôta, idea, + ½veax, production (see genetic).]

Productive of mental images or developed in terms of mental images: said of a process of thought or active imagination in which verbal (that is, symbolic) ideas are not employed.

The other extreme is that in which images constituting he meaning of the perceived words are easily presented,

D. 412.

ideoglandular (i'dē-ō-glan'dū-lār), a. [Gr. idéa, idea, + E. glandular.] Relating to glandular action as the result of mental impressions.

ideogram, n. 2. In phonetics, the visual symbol of a word or phrase that is perceived as a whole and thus constitutes a single idea. Ideograms are distinguished as sensory or motor, according as the word or phrase is seen or written. See *ideophone. Scripture, Exper. Phonetics, p. 132.

ideograph, n. 2. Same as *ideogram, 2.

ideal. I. a. 5. In projective geom., infinitely distant.—Ideal black body. See laws of *radiation.—Ideal gas, point. See *gas, etc.

II. n. 4. In math., an ideal number.

idealics (î-dē-al'iks), n. Sociological knowledge dealics (î-dē-al'iks), n. Sociological knowledge dealics (î-dē-al'iks), n. Sociological knowledge dealics (î-de-al'iks), n. Sociological knowledge dealics (î-d

-ize.] To treat theoretically or in a specially, idealistic way.

ideometabolic (i'dō-ō-met-a-bol'ik), a. [Gr. iðéa, idea, + E. metabolic.] Relating to metabolic changes as the result of emotional imbolic changes. Baldwin, Diet. of Philos. and pressions. Baldwin, Dict. of Philos. and Psychol., II. 436.

ideomuscular (î 'dē-ē-mus 'kū-lär), a. [Gr. idéa, idea, + E. muscular.] Relating to mus-cular action as the result of mental impres-sions. Baldwin, Dict. of Philos. and Psychol.,

ideophone (i-de'ō-fōn), n. [Gr. $i\delta ia$, idea, + $\phi \omega n \dot{n}$, sound.] In phonetics, the auditory symbol of a word or phrase that is perceived as a whole and thus constitutes a single idea. Ide-ophones are distinguished as sensory or motor, ophones are distinguished as sensory or motor, according as the sound or group of sounds corresponding to the word or phrase is heard or spoken. See *ideogram, 2. First used by A. J. Ellis. Scripture, Exper. Phonetics, p. 132. ideophonetics (i'dē-ō-fō-net'iks), n. [Gr. iδέα, idea, + φωνητικός, phonetic.] The method of direct representation of ideas by vocal sounds.

direct representation of ideas by vocal sounds.
ideophonous (i-dē-of'ō-nus), a. [As ideophone Engin., 1893, p. 211.
+ -ous.] Representing ideas by vocal sounds; idiographic, a. 2. Concerned with the individpertaining to ideophonetics.

ideoplastic (i'dē-ō-plas'tik), a. [Gr. iδέα, idea, + πλαστός, formed, + -ic.] 1. Pertaining to ideoplasy, or the suggestive function of the imagination.—2. Noting those physiological functions and processes which are supposed to be directly modifiable by mental suggestion. Baldwin, Dict. of Philos. and Psychol., idio-phip-notism (i'di-ō-hip-nō-tizm), n. [Gr. idea, own, + humanism | Same as *idio-bernotism | Same as *idio-bernotis

ideoplasty (i'de-o-plas ω_i), ...

plusy.
ideoplasy (i-de-op'lā-si), n. [Gr. $id\ell a$, idea, + $\pi\lambda\delta\sigma c$, formation.] The faculty or process of
forming mental images; imagination: used
especially of imagination in its supposed sugcastive capacity, as directly modifying certain
mastive capacity capacity capacity ca

ideo-unit (i'dē-ō-ū'nit), n. A group of elements that is perceived as a whole and therefore constitutes a single idea: used especially in phonetics as a general term covering *ideo-phone and *ideogram. Scripture, Exper. Phonetics, p. 133.

ideovascular (i'dē-ē-vas'kū-lār), a. [Gr. idéa, idea, + E. vascular.] Relating to vascular changes as the result of emotional impressions. Baldwin, Dict. of Philos. and Psychol.,

Idia, n. 2. The typical genus of the family Idiade. Lamourouz, 1816.

Idiacanthidæ (id'i-a-kan'thi-dē), n. pl. [NL.,

| Idiacanthus + -idæ.] A family of eel-like

deep-sea fishes.

tute a recognizable class in a civilized population. Compare ideomotor. Giddings, Inductive A family of campanularian Hydromedusæ, Sociol., p. 63.

A family of campanularian Hydromedusæ, having the hydrotheca adnate to the hydrocaulus and the comosare divided into segments idionym (id'i-ō-nim), n. [Gr. lδως, own, + which form two longitudinal series of inter- δυομα, name.] A word, in the vocabulary of communicating chambers, each of which connects with the gastral cavity of a hydranth. part. Wilder.
It contains the genus Idia, found in the south- idiophanic (id'i-ō-fan'ik), a. Same as idio

idiobiology (id'i-ō-bī-ol'ō-ji), n. [Gr. lòw, own, + E. biology.] The biology of any particular organism.

introphanic (id 'i-ō-fren' ik), a. [Gr. lòw, own, + E. biology.] The biology of any particular organism. own, + E. biology ticular organism.

or in which, as in the ideogenetic thinking of artists, the idioblast, n. 2. In biol., one of the hypothet-word-symbols are not used.

Jour. Philos., Psychol. and Sci. Methods, July 21, 1904, similar to the generales of Daywin the physical strains. idioblast, n. 2. In biol., one of the hypothetical, ultimate elements of living protoplasm, similar to the gemmules of Darwin, the physiological units of Herbert Spencer, the biophores of Weismann, etc. O. Hertwig, 1893.

Idiochelys (id-i-ok'ē-lis), n. [NL., < Gr. lδιος, peculiar, + χέλυς, a tortoise.] An extinct genus of pleurodirous chelonians or turtles having a deply compresent a pubal, plate a purel.

ing a deeply emarginate nuchal plate, neural plates short and interrupted, not exceeding seven in number and not reaching the single

seven in number and not reaching the single suprapygal. It is found in the Jurassic lithographic limestone of Bavaria.

idiochromatic (id'i-ō-krō-mat'ik), a. [Gr. iδιος, own, + χρωμα(τ-), color, + -ic.] Of the same color, whether existing in a large mass or reduced to a fine powder: said of a mineral substance, notably, lazulite and lapis lazuli. substance, notably, lazulite and lapis lazuli, the ultramarine of the ancients.

idiochromosome (id"i-ō-krō'mō-sōm), n. ldoc, own, $+\chi\rho\bar{\omega}\mu\alpha$, color, $+\sigma\bar{\omega}\mu\alpha$, body (see *chromosome).] A chromosome that forms the distinctive characteristic between the maleproducing and female-producing spermatozos in certain insects (*Hemiptera* and *Coleoptera*). The idiochromosomes, which are usually smaller in the male-producing than in the female-producing forms, are supposed to be definitely correlated with the sexual characters. E. B. Wilson, 1905. idiocrasis (id-i-ok'rā-sis), n. [NL. ζ Gr. Ιδιος, peculiar, + κρᾶσις, mixture, temperament.]

peculiar, + κρᾶσι Same as idiocrasy.

idiocy, n.—Mongolian idiocy, a form of congenital idiocy, in which the subject has a flattened skull, slanting eyes like a Mongolian, and abnormally short thumbs. idiogenesis (i'di-ō-jen'e-sis), n. [Gr. lôco, own, + yévesis, origination.] Origination with

out apparent cause; spontaneous origination. idiogenite (id-i-oj'e-nit), n. [Gr. lõuc, own, + γένεσις, origin.] An ore-deposit contemporaneous in origin with the inclosing rock, as in the igneous iron ores: contrasted with *xenog-

ual; descriptive and interpretative of single

idiohypnotism (i'di-ō-hip'nō-tizm), n. [Gr. ldoc, own, + hypnotism.] Same as *idiohypnosis.

themselves after karyokinetic cell-division. V. Haecker, 1902.

The nuclear stages in which the idiomeres (partial nuclei) and gonomeres (double nuclei) appear are closely related.

Bot. Gazette, June, 1903, p. 448.

idiometer (id-i-om'e-ter), n. [Gr. lôιος, own, + μέτρον, measure.] An instrument for determining the personal equation of an observer using a transit-instrument, by observation of the transit of an artificial star whose motion is known.

idiomorphosis (id-i-ō-mòr'fō-sis), n. [Gr. lδως, one's own, peculiar, + μορφή, form, shape.] A special kind of metamorphosis, as the petals of Camellia, from bundles of stamens, or petaloid sepals of Polygala (Delpino).

Jackson's Glossary.

idiometral (id'i-ō-nū'ral), α. [Gr. lδως, own, + νεῦρον, nerve, + -al¹.] Pertaining to a single nerve or to the nervous system exclusively. idioneurosis (id'i-ō-nū-ro'sis), n. [NL., ⟨Gr. lδως, own, + νεῦρον, nerve, + -osis.] A functional neurosis.

anatomy, which refers to but one anatomical part. Wilder.

idioplasm, n.— Accessory idioplasm, the idioplasm to which (according to Weismann) budding and the replacement of lost parts are due.

The mechanism for regeneration is certainly a very complicated one, for each separate bone is controlled by a number of different determinants, and not by a single one; and all these special determinants are contained in the accessory idioplasm.

Weismann (trans.), Germ-plasm, p. 104.

Blastogenic idioplasm, the idioplasm to the presence of which the development of a bud into a new organism is held by Weismann to be due. Weismann (trana.), Germplasm, p. 157.

idioplasmatic (id'i-ō-plaz-mat'ik), a. Same as *idioplasmic.

idioplasmic (id'i-ō-plaz'mik), a. Of or pertaining to idioplasm.

On this view the locality of the pre-established organization is shifted from the cytoplasm to the nucleus, though it may still be admitted that in certain cases a cytoplasmic predetermination arises as a secondary result of idioplasmic influence.

Brite Brit.**, XXXII. 218.

idioplastic (id'i-ō-plas'tik), a. [Gr. ιδιος, own, + πλαστός, < πλάσσειν, form, + -ic,] Same as *idioplasmic.

idiopsychology (id 'i-ō-sī-kol'ō-ji), n. [Gr. idios, own, + E. psychology.] 1. Personal psychology; the specific psychology of one's own mind. N. E. D.—2. Psychology constructed on the basis of a study of one's own mind; psychology in which one's own indi-figure showing idiozome in Spermatid of the Amphibian Am vidual mental processes are generalized as
common to all normal minds.—3. Same as

A. spermatid of Amphibiana, showing sphere-bridges and ring common to all normal minds.—8. Same as differential or individual *psychology.

tidioreflex (id'i-ō-rē'fleks), n. [Gr. ldoc, own, + E. reflex.] A reflex provoked by a cause arising within the same organ or system: as, contraction of the pupil following the incidence

of light-rays upon the eye. Alien. and Neurol., Feb. 1903, p. 23.

idioretinal (id'i-ō-ret'i-nal), a. [Gr. lõuo, own, + NL. retina, retina, + -all.] Pertaining to the retina exclusively: as, idioretinal light, a subjective sensation of light origination in the particular in the state of the sensation of light origination. ing in the retina itself.

Idiosepiidæ (id'i-ō-sē'pi-i-dē), n. pl. [NL., < Idiosepi-on + -idæ.] A family of chondrophorous, decapodous cephalopods, having the fins very small and terminal, and the fourth pair of arms in the male hectocotylized and bare of suckers. It contains the single genus Idiosepion. I. pygmaeus, found in the Indian Ocean, is the smallest cephalopod known, measuring only about 15 millimeters in length.

Idiosepion (id'i-ō-sē'ni-on) v. [NI. (Steep-

limeters in length.

Idiosepion (id'i-ō-sē'pi-on), n. [NL. (Steenstrup, 1881), < Gr. lδιος, own, + σηπία, the cuttlefish.] The typical genus of the family Idiosepiudæ. Also called Idiosepius.

Idiosepius (id'i-ō-sē'pi-us), n. Same as *Idio-amia"

idiosome (id'i-ō-sōm), n. [Gr. $l\delta\omega_{\zeta}$, own, + $\sigma\omega_{\mu a}$, body.] In biol., a hypothetical unit or ultimate element of living matter, which is imagined as independent of cell-boundaries, as the real builder of the organism, as the bearer of heredity, and as the seat of all growth, assimilation, reproduction, and regeneration. C. O. Whitman, Biol. Lectures, 1893, p. 123. idiospasm (id'i-ō-spazm), n. A spasm affect-

ing a limited area

idiosyncratical (id'i-ō-sin-krat'i-kal), a. Same as idiosyncratic.

idiot, n.—Mongolian idiot, one who is the subject of Mongolian *idiocy (which see). idiothermic (id'i-ō-ther'mik), a. Same as

idiothermous.

idiothermous (id'i-ō-ther'mus), a. [Gr. iδιος, own, + θέρμη, heat, + -ous.] Same as homothermous.

idiotrophic (id'i-ō-trof'ik), a. [Gr. iδιος, own, + τροφή, nourishment, + -ic.] Possessing the faculty of selecting its own nutrition: noting certain cells.

Idiotrophic means, strictly speaking, from its derivation (when applied to a neurone or group of neurones making a nerve center), a peculiarity of nutrition or selection of its nutrition.

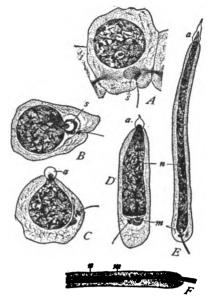
C. H. Hughes, in Alien. and Neurol., Feb., 1908, p. 23.

idiotype, n. 2. In the nomenclature of types in natural history, a specimen, not a holotype, identified by the nomenclator himself.

identified by the nomenciator numbers.

idiozome (id'i-ō-zōm), n. [Gr. $l\delta lo\varsigma$, own, + isomeric forms.

idose (i'dōs), n. [id(ite) + -ose.] A colorless mals, supposed, in some cases, to be concerned carbohydrate, $C_6H_{12}O_6$, related to glucose. It is prepared by the reduction of idonic acid and original two isomeric forms given under to disappear without giving rise to any por*fluoranthene.
tion of the spermatozoön. The idiozome is idryl (id'ril), n. [Formation not obvious.]
sometimes regarded as the equivalent of the Same as *fluoranthene.



A, spermatid of Amphiuma, howing sphere-bridges and ringshaped mid-bodies. B, later stage: outer centrosome ring-shaped
inner one double: idiozome, r, converted into the acrosome, a.
C, migration of the centrosomes. D, middle-piece at base of
nucleus: m, middle-piece: m, head derived from nucleus of
spermatid. E, inner centrosome forming the end-knol-within the
middle-piece, which is now inside the nucleus. F, enlargement
of middle piece, end-knob within it; elongation of the ring.
(After McGregor.)
(From Wilson's "The Cell.")

attraction-sphere of other cells besides the

spermatids. Meves, 1897.

idite (id'īt), n. [Gr. ldioc, own (or L. idem, same i), +-ite².] A colorless syrup, C₆H₁₄O₆, formed by the reduction of idose. Two optical isomers are known.

idle, a. 9. Of machinery, doing no direct work; merely changing the direction of motion: as, an idle gear; also, running merely to carry transmission-elements: as, an idle *pulley (which see).

idler, n. 4. In railroading, an empty car; an

empty.

I. D. N. An abbreviation of the Latin in Dei nomine, 'in the name of God.'

Totaleh 1401 the common name of a fish,

idol; n.—Moorish idol, the common name of a fish, Zanclus canescens, of the South Seas and East Indies. It has a horn-like appendage on the forehead, and is held in great reverence by the fishermen of the Moluccas, who bow to it when it is captured and then restore it to the water. Gill, Standard Natural History, p. 210. See Zanclus, with cut.

idoloclastic (ī'dol-ō-klas'tik), a. [Gr. εἰδωλον, image, idol, + κλαστός, < κλαν, break.] Breaking images or idols; pertaining to the breaking of images; iconoclastic.

idolographic (ī-dol-ō-graf'ik), a. Same as idologravhical.

idolomania (i'dol-ō-mā'ni-a), n. [Gr. $\epsilon i\delta\omega\lambda\sigma\nu$, image, idol, $+\mu\alpha\nu ia$, madness.] Excessive adoration of idols.

adoration of idols.

idolomancy (i-dol'ō-man-si), n. [Gr. εἰδωλον, image, idol, + μαντεία, divination.] Divination by means of images or idols.

idolothyte (i-dol'ō-thit), a. and n. [Gr. εἰδωλόθυτος, < εἰδωλον, idol, + *θυτός, < θύειν, sacrifice.]

I. a. Offered to an idol: as, idolothyte meats.

II. n. Anything offered to an idol.

idonal a. Homes where constrained and idol.

idoneal, a.— Idoneal number, one of a class of numbers, discovered by Euler about 1778, such that if an odd number, N, be expressible in only one way in the form (mx²+ny²) [with mx prime to ny] or (x²+my²) [with x prime to mny], the positive idoneal being (mn), then N is either a prime or the square of a prime.

II. n. An idoneal number.

idoneity (î-dō-nē'i-ti), n. [LL. idoneitas, <
L. idoneus, fit: see idoneous.] Fitness; suitableness; adequacy.

They want the . . . meetness, the aptitude of idoneity for the inheritance of the Saints in light.

Howe, Blessedness of the Righteous, p. 139. N. E. D.

idonic (i-don'ik), a. [id(ose) + -one + -ic.]Derived from idose.—Idonic acid, a colorless compound, $C_0H_{12}O_7$, formed from xylose. It exists in two isomeric forms.

Idsumo pottery. Same as Idzumo *pottery. idunium (1-dū'ni-um), n. [NL.] In chem., the name of a supposed new element forming a constituent of a vanadium ore. There has been no confirmation of its existence.

idyler, idyller (i'dil-èr), n. Same as idylist.
idylism, idyllism (i'dil-izm), n. [idyl + -ism.]
Idyllic character; rural or pastoral simplicity. The omission of these dramatic contrasts... makes your masterpiece soothing and tender almost to idyllism. S. Ward, in Life of Longfellow, III. 219. N. E. D.

S. Ward, in Life of Longfellow, III. 213. N. E. D. idylize, idyllize (i'dil-īz), v. t.; pret. and pp. idyllized, ppr. idyllizing. [idyl(l) + -ize.] To give an idyllic, natural, or simple charm to; make idyllic or make an idyl of. J. A. Symonds, The Renaissance in Italy, VII. 12. idyllian (i-dil'i-an), a. [L. idylli-um + -an.] Same as idyllic.

ie. The earlier form of the termination now usually written -y, of various origin (OF. -ie, -ee, -e, etc., L. -ia, -ās (-āt-), -ēs (-ād-), etc.: see -ie¹, -ie², -ie³, -y¹, -y², -y³, etc.), as in astronomie, familie, fancie, mercie, citie, companie, bequite to beautie, etc. The spelling is is retained in the plural (families, fancies, cities, etc.), and in certain diminutives, chiefly Scotch, as birdie, doggie, mousie, etc., and in diminutive personal names, as Charlie, Willie, Jennie,

I. E. E. An abbreviation of Institute of Electrical Engineers (British).

ie ie (ē-ā-ē'ā), n. [Hawaiian ie-ie = Samoan ie ie (see def.) = Maori kiekie, another species of the same plant; a reduplication of Hawaiian ie, the plant, also a mat made from it = Samoan 'ie, a fine mat used by the natives as money = Tongan kie, a mat, etc.] 1. In Hawaii, a climbing screw-pine, Freycinetia arborea, from the aërial roots of which baskets (called kinae opae) are made by the natives, who use them for catching shrimp in the mountain streams. In Samoa the name is applied to Freycinetia Reineckei, from which fish-baskets are made.—2. Garlands made of

I-ety (i'e-ti), n. $[I^2 + -ety \text{ for } -ity \text{ in abstract nouns, as in } egoity, etc.]$ The sense of being 'I'; consciousness of one's personality. [Nonce-word.]

In spite of the honestest efforts to annihilate my I-ty. or merge it in what the world calls my better half, I still find myself a self-subsisting, and, alsa, self-seeking me.

Mrs. Carlyle, Letter of June 1, 1835, in Letters, I 14

ife² (i-fa'), n. [W. African (Angola).] A plant of the lily family, Cordyline cylindrica (Sansevieria cylindrica of Bojer). Its firm, flesh, cylindrical leaves are all basal and attain a length of feet. The flowers are cream-white tinged with pink, and are borne in fascicles in a raceme a foot or more in length. The plant is a native of tropical Africa and yields from the leaves a strong cordage fiber known as ife kempifil (ē'fil), n. [= Chamorro ifil, Tagalog ipil, Samoan ifi-lele.] In Guam, Intsia bijuga, the most valuable timber-tree growing on the

most valuable timber-tree growing on the most valuable timber-tree growing on the island. It has abruptly pinnate leaves, usually with two pairs of leaflets, and bears a rigid, flat pod containing from one to five seeds. The heart-wood is very hard and heavy but not elastic. It is tough and cross-grained and very difficult to plane, of a yellowish color at first but gradually turning darker until it resembles black walnut in color. Though of rather coarse grain it takes a fine polish and is much used for furniture and for the floors of houses of the better class. It resists the attacks of white ants (termites), and is used for posts. At Agais, the capital of Guam, the pillars of the church are single straight trunks of this tree. See vest.

I. G. An abbreviation (a) of Inside Guard or

Guardian; (b) of Inspector General.

iganouwo (ē-gā-nō-ō'wō), n. [Jap., 'prickle fish.'] A fish, Elops saurus, of the family Elopidæ, found at Nagasaki. Also known as Okikonoshiro (off-shore shad).
igasud (ē'gä-söD), n. See the extract.

Igasud or Pepita de San Ignacio (Strychnos ignatii Berg.), a trailer which is only found in Visayas, principally near Catbalogan; the seeds of its fruit have various medicinal or antidote uses—stomachic, emetic, styptic for paralytics, for women during parturition, for malarial fever, for rheumatism and indigestion, for contractions of the nerves, and pains in the body.

Pron. Gaz. Phillipine Is., p. 78.

igasurate (ig-a-sū'rāt), n. [igasur-ic + -atel.]
A salt of igasuric acid.

A salt of igasuric acid.

igasuric (ig-a-sū'rik), a. [F. igasurique, given as from a Malay name, *igasur, applied to St. Ignatius' bean.] Noting an amorphous astringent acid combined with the alkaloids in the seeds of Strychnos Nux Fomica and S. Ignatia, and probably identical with caffeotomic acid. tannic acid.

igasurine (ig-a-sū'rin), n. A substance found in Strychnos Ignatia (St. Ignatius' bean): once thought to be a distinct alkaloid, but found to be impure brucine.

igazol (ig'a-zol), n. Same as *formalina.
igelströmite (ig'l-stré-mit), n. [Named after
L. J. Igelström, a Swedish mineralogist.] 1. A
silvery-white variety of pyroaurite from Scotland.—2. A ferruginous variety of knebelite.
igloogeak (ig'lö-gö-ak), n. [Eskimo iglovigak,
a snow-house, (iglo, a house: see igloo.] An
igloo with a dome-shaped roof, especially a
structure made of blocks of frozen snow.
These igloos are commonly built in one continuous layer,
rising spirally to the top. There is no chimney or opening for smoke, as seal-oil burned in lamps is the only fuel.
Light comes through the snow itself, or through a piece of
smooth ice sometimes set in above the door.

Ignacio formation or quartzite. See *forma-

Ignacio formation or quartzite. See *forma-

Ignatianist (ig-nā'shan-ist), n. [Ignatian, adj., \(\) Ignatius, + -ist.] A follower or adherent of Ignatius Loyola, or of the Jesuit order established by him.

Igneous rocks. See *rock1.

igniferous (ig-nif'e-rus), a. [L. ignifer, fire-bearing (< ignis, fire, + ferre, bear), + -ous.]
Bringing, bearing, or producing fire. Dekker,
Owl's Almanack, ii.

ignific (ig-nif'ik), a. [NL. *ignificus, < L. ig-nis, fire, + -ficus, < facere, make.] Producing

coil, or induction-coil, which is used in gas- or gasolene-engines to ignite the charge in the engine-cylinder by means of an electric spark produced in the cylinder at the proper point of the piston-stroke.—Flame-igniter, an igniter for explosion-engines in which the mixture of gases is fired by means of a flame.—Hot-tube igniter, a metal tube heated by a flame, used for igniting the compressed charge in the cylinder of an internal-combustion engine. When the mixture is of constant quality the ignition can be properly timed by the fact that the mixture will ignite at a certain point of compression in contact with a hot surface. When the mixture varies in volume or weight with varying loads a timing-valve system must be used. No such variation is possible as with electric ignitions in which ignition may be retarded and advanced relatively to the dead-point of the piston-travel.—Jablochkoff igniter, the bit of conducting material between the terminals of a Jablochkoff candle which serves to carry the current when the candle is first put in circuit, and which, by burning away, establishes the arc.—Jump-spark igniter, an igniter in which the electric spark from an induction-coll is made to jump between fixed terminals. Sci. Amer., Jan. 17, 1903.— Make-and-break igniter, an igniter for explosion-engines, in which the terminals between which the spark is to pass are automatically brought together and separated during each cycle. Sci. Amer. Sup., July 23, 1904, p. 23880.—Spark-igniter, an igniter for an internal-combustion engine which lights the charge by means of an electric spark. See *igniter, an igniter for explosion-engines, consisting of a tube rendered incandescent by means of an electric spark.

igniter-lead (ig-nī'tėr-lēd), n. That which determines the time, in the cycle of an explosionengine, at which ignition shall occur. Sci. Amer., Nov. 29, 1902.

ignition, n. 5. In internal-combustion motors, the setting fire to the mixture of air and hydrocarbon vapor in the cylinder, so that the air shall expand and increase its pressure and

the setting fire to the mixture of air and hydrocarbon vapor in the cylinder, so that the air shall expand and increase its pressure and perform the work required. Ignition is mainly effected, in modern motors, by an electric spark which jumps across a gap between terminals and in so doing raises the temperature of the mixture to the igniting-point. Such electric ignition may be by the jump-spark system, or by the make-and-break system. In the jump-spark system, the terminals on the secondary circuit of a Buhmkorff or induction-coil are used. The current is made and broken on the primary or battery circuit, and this sends a secondary current of high intensity through the secondary line, in which are the gap-terminals. The primary make-and-break effect may be either by mechanical or by electrical vibrators, timed at will by the revolution of the motor-shaft. The hammer-break or are system ignites by causing a flowing primary current to be mechanically interrupted by the separation of two contacts in the circuit. The current arcs across the break until the gap becomes too wide and the arc sets fire to the mixture around it. The make-and-break gives a 'fat' or copious spark, but considerable battery-power is needed; the jump-spark gives a tenuous high-tension spark, with less battery-power. Magneto-electric ignitions. Ignition may also be effected by compressing the mixture and at the right time allowing it to enter a hot tube of refractory material heated to redness by an exterior fiame; or simple compression within the hot walls of the containing-chamber will fire an easily ignited mixture.—Advanced ignition, the ignition which is made to take place while the piston is at some distance from the end of the compressing-stroke, or before the crank has reached its dead-center.—Automatic ignition, that method of igniting the compressed combustible mixture of fuel and air be-

hind the piston of an internal-combustion motor in which the fuel is ignited by raising the temperature by the compression in the heated cylinder so that the mixture takes fire without a fiame or spark. (See *ignition, 5.) It is objectionable in that the cold combustion or mixture-chamber must be prehe ated to start, and that under variable loads and variable charges ignition is uncertain and explosive charges may either escape into the exhaustipping, or be pre-ignited.—Ignition timing, the act or process of so timing the ignition that it will take place at a certain instant; specifically, in a gas-engine, the timing of the ignition to take place when the piston is at a certain point in its travel.—Retarded ignition, ignition which is made to take place after the crank has passed the deadcenter and the compressed mixture has begun to expand in volume. See *ignition, 5. The spark is always advanced in starting the engine. To advance or to retard on either side of the most advantageous angle is to diminish the power of the working-stroke.—Temperature of ignition, the lowest temperature at which a substance will burn or enter into combination, usually with the oxygen of the air, with production of heat and light. Very commonly the substance needs to be heated to attain this temperature, but in some cases the ignition-point is at or below the common temperature of the air, so that the substance takes fire as soon as it comes in contact with air. Such substances are said to be spontaneously combustible. Roscoe and Schorlemmer, Treatise on Chem, I. 228.

Ignition-box (ig-nish'on-boks), n. In gas-engines, the chamber in which the shearers.

ignition-box (ig-nish'on-boks), n. In gasengines, the chamber in which the charge of mixed air and gas is ignited in an internal-

ignition-tube (ig-nish'on-tūb), n. 1. A tube which is kept hot to serve as an igniter for the charge of an internal-combustion engine.

To start the motor cycle, the reservoir, G, is partly filled with gasoline; the door at the back of the ignition box is opened and the burner for heating the ignition tube is started by giving it a preliminary heating by means of an alcohol torch.

History, Horseless Vehicles, p. 187.

2. In chem., a small glass tube, closed at one end and often at this end expanded into a bulb, used to ignite or strongly heat in a blowpipe flame a fragment of mineral or other substance in order to observe the evolution of gas or vapor.

gnition-valve (ig-nish'on-valv), n. A valve which opens communication between an igniter and the charge to be ignited. It closes

ignobility, n. 2. The body of persons not of noble rank; the commons: opposed to nobility. [Nonce-word.]

The ceorl was an ignoble freeman, the gentleman was a noble freeman; for the nobility, like the ignobility, then and now, was divided into two ranks.

Frazer's Mag., XI. 315.

ignorance, n.—Invincible ignorance, in Roman Catholic theology, an ignorance of the truth of Catholic doctrine which cannot be overcome in the ignorant person, either owing to inherent limitations or to circumstances which deprive him of the possibility of enlightenment.

ignoration, n. 2. The act of ignoring; also, the state of being ignored.

It is accustomed to simplify its problems by the method of abstraction. . . And by a long course of successful ignoration it may have acquired a habit of thinking that it can actually exclude, instead of only abstract, these disturbing causes.

Sir Oliver Lodge, in Proc. Soc. Psychical Research, (YVII 14)

ignotobranchiate (ig-nō-tō-brang ki-āt), n. [L. ignotus, unknown, + branchiæ, gills, + -ate.] See the quotation.

-ate.] See the quotation.

The number of the branchize has been used for the purpose of nomenclature, so that while the Nautilus Order belongs to the Tetrabranchiata, the Cuttle-fish Order belongs to the Dibranchiata. Besides these two orders there is an immense number of fossil forms, of whose branchize nothing is ever likely to be known, and they have accordingly been sometimes classed as Tetrabranchiates and sometimes as Dibranchiates, but they ough rather to be called Ignotobranchiates.

Encyc. Brit., XXVII. 319.

[CONTROLE (\$\bar{\text{E}} \circ \bar{\text{E}} \cir

Igorrote (ē-gō-rō'te), n, and a. [A Sp. spelling of one form of the native name.] I. n. 1. A member of one of the tribes speaking the Igorrote language, including the Igorrotes proper, the Buriks, and the Busaos.—2. In a generalized sense, a member of one of the uncivilized tribes of northern Luzon until recently known as head-hunters; also rarely used to designate those of central Luzon and Mindanao.—3. In local Philippine usage, a savage; a pagan native. See *Indio and *Remontado.—4. The language, or any language, spoken by Igorrotes. There are many dialects which have been only scantily recorded or

II. a. Of or pertaining to the Igorrotes.

guanodontoid (i-gwan-ō-don'toid), a. and n.

I. a. Having the characters of or pertaining

to Iguanodon.

II. n. A reptile allied to Iguanodon.

ihi (ē'hē), n. [Maori.] A name in New Zealand of the fish Hemiramphus intermedius, of the family Hemiramphidæ.

I. H. N. An abbreviation of In His Name, the

I. H. N. An abbreviation of In His Name, the motto of the Order of King's Daughters and Sons.

I. H. P. An abbreviation of indicated horse-power. See horse-power.

ijolite (ē'yō-līt or ij'ō-līt), n. [Jjo, a district in northern Finland, + Gr. λίθος, stone.] A phanerocrystalline igneous rock composed of nephelite and pyroxene with small amounts of apatite, titanite, and ivaarite. It corresponds in composition to nephelinite, and occurs in dikes associated with nephelite-syenite.

ikoik (ē'kō-ēk), n. [Native name.] In the Caroline Islands, Cordia subcordata, a handsome

nis, fire, + -ficus, < facere, make.] Producing fire; fire-making.

igniform (ig'ni-form), a. [NL. *igniformis, < L. ignis, fire, + forma, form.] Having the form of fire or flame. Berkeley, Siris, § 322.

ignipotencet (ig-nip'ō-tens), n. [NL. *igniformis distributed in the ignificant box.

ignipotencet (ig-nip'ō-tens), n. [NL. *igniformis distributed in the ignificant box.

ignipotencet (ig-nip'ō-tens), n. [NL. *igniformis distributed in the ignificant box.

ignipotencet (ig-nip'ō-tens), n. [NL. *igniformis distributed in the ignificant box.

igniform (ig'ni-form), a. [NL. *igniformis, < li>line Islands, *Cordia subcordata,* a handsome tree of the borage family. It has ovate, subcording the lowers of the clarge in the charge is effected by heating the conduction box date leaves and corymbs of orange or red funnel-shaped flowers. The heart-wood is dark brownish red, often marked with lighter bands; it is durable and is used for box box building. See *kou and *corymbs of orange or red funnel-shaped flowers. The heart-wood is dark brownish red, often marked with lighter bands; it is durable and is used for box building. See *kou and *corymbs of orange or red funnel-shaped flowers. The heart-wood is dark brownish red, often marked with lighter bands; it is durable and is used for box building. See *kou and *colonity (il. *a., n., and adv. A simplified spelling of ill. *a., n., and adv. A simplified spelling of ill. *illeum + Gr. kólov, colon, + oróµa, mouth, + -y³.] The establishment, by a surgical operation, of a permanent communication between significant into the ignificant provider into the ignition-valve.

ignition-valve.

igniform (ig'ni-form), a. [NL. *igniformis, defected by heating the form the rear mick of the clarge is flowers. The heart-wood is dark brownish red, often marked with lighter bands; it is durable and is used for box building. See *kou and *colonity (il. *a., n., and adv. A simplified spelling of ill. *illeum + Gr. kólov, colon, + oróµa, marked in the rear mick of the cylinders from the rear

ileo-ileostomy (il'ē-ō-il-ē-os'tō-mi), n. [NL. ileum + ileum + Gr. $\sigma\tau \delta\mu a$, mouth, + -y³.] The establishment, by a surgical operation, of a permanent communication between two pre-

permanent communication between two previously non-continuous portions of the ileum. ileoproctostomy (il^{*}ē-ō̄-prok-tos'tō-mi), n. [ileum + Gr. πρωκτός, anus, + στόμα, mouth, + -y³.] The establishment, by a surgical operation, of direct communication between the ileum and the rectum. ileosigmoid (il^{*}ē-ō-sig'moid), n. [ileum + sigmoid.] Relating to both the ileum and the sigmoid curvature.

sigmoid curvature.

When a colectomy is impossible because of the site of the lesion, as, for instance, in the splenic flexure, an anastomosis is indicated, either colo-colic or ileosigmoid.

Therapeutic Gazette, Feb. 15, 1903, p. 102.

as soon as ignition is effected.

ignitive (ig'ni-tiv), a. [ignite + -ive.] Having the quality of ignition; capable of producing flame.

ignobility, n. 2. The body of persons not of ignobility, n. 2. The body of persons not of ignobility, n. 2. The body of persons not of ignobility, n. 2. The body of persons not of ignobility, n. 2. The body of persons not of ignobility, n. 2. The body of persons not of ignobility, n. 2. The body of persons not of ignobility, n. 2. The body of persons not of ignobility, n. 2. The body of persons not of ignobility, n. 2. The body of persons not of ignobility, n. 2. The body of persons not of ignobility, n. 2. The body of persons not of ignobility ignorates a second as ignition is effected.

Idea of the repeatic Gazette, Feb. 10, 1000, production is effected.

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Idea of the repeating flatter i

(fig. 4) under oak, 1.

Ilfracombe slates. See *slate2.
iliac¹, a.—Iliac index. See *index.—Iliac pocket or recess. See *recess.

Iliadic (il-i-ad'ik), a. [Iliad + -ic.] Of or pertaining to Homer's Iliad.

I have given the British Museum a copy of the Odyssey with the *Iliadic* passages underlined and referred to in MS.

S. Butler, tr. of Odyssey, Pref., p. ix.

Iliadist (il'i-ad-ist), n. [Iliad + -ist.] 1. A writer of Iliads.

'I think all real Poets, to this hour, are Psalmists and Ili-adists after their sort; and have in them a divine impa-tience of living among lies.'
Carlyle, Frederick the Great, L. i. 1.

2. Same as rhapsodist, 1.
iliahi (ē-lē-ā'hē), n. [Hawaiian name.] The
Hawaiian sandalwood, Santalum Freycinetianum, the aromatic wood of which was once an important article of export from the Hawaiian Islands but has now become scarce. See sandalwood.

ilicate (il'i-kāt), n. [ilic-ic + -ate1.] A salt

of ilicic acid.

licic (i-lis'ik), a. [ilex (ilic-), holly, + -ie.]

Derived from holly: as, ilicic acid.

ilima (ē-lē'mā), n. [Hawaiian name.] In Hawaii, a general name for plants of the genus Sida, applied especially to S. fallax, S. cordifolia, and S. Meyeniana, which grow spontaneously on the island and are also cultivated by the natives, who string their yellow flowers into the string their strings their strings. into wreaths and garlands for adorning themselves.

Iliofemoral triangle, the area bounded by a perpendicular line running upward from the greater trochanter of the femur, a horizontal line running backward from the anterior superior spine of the ilium, and a line drawn between the anterior superior spine of the ilium and the greater trochanter of the femur.

ilio-ischiadic (il'i-ō-is-ki-ad'ik), a. Same as ilio-ischiatic. - Ilio-ischiadic fissure, foramen. See

ilio-ischiatic.— Hio-ischiadic fissure, foramen. See *fusure, *foramen.

liopubic (il'i-ō-pū'bik), a. [NL. ilium + pubes + -ic.] Relating to both iliac and pubic bones.— Hiopubic ligament. Same as Poupart's ligament (which see, under ligament).

lioscrotal (il'i-ō-skrō'tal), a. [NL. ilium + scrotum + -all.] Relating to both ilium and scrotum; specifically, noting as small nerve.

liotrochanteric (il'i-ō-trō-kan-ter'ik), a. [NL. ilium + trochanter + -ic.] Relating to the ilium and the trochanters of the femur; specifically, noting the gluteal muscles attached cifically, noting the gluteal muscles attached

to these parts.

Ilisha (i-lish'ā), n. [NL. (Bleeker, 1866), from an East Indian name of Sardinella lisha (Jordan and Evermann).] A genus of fishes, of the family Clupeidæ, found on the tropical coasts of America and Asia.

-ility. A termination (i-ii-ty, L. -i-li-tas) of nouns from adjectives in -le, -ble, -ile, etc., as ability, agility, civility, probability, etc. See ability, agility, civility, probability, etc.

-ble, etc.

Ill., Ills. Abbreviations of Illinois.

ill., illus., illust. Abbreviations of illustrated or of illustration.

Dismus (i-le'nus), n. [NL., irreg. (Gr. iλλαl-vew, look awry, squint.] A genus of Silurian trilobites with large subequal and smooth head-and tail-shields, large compound eyes, and Illanus (i-lē'nus), n.

and tall-shelds, large compound eyes, and generally 10 thoracic segments.

Illesive, illesive (i-lē'siv), a. [L. il- for in-3 priv. + læsus, pp. of lædere, hurt, + -ive.]

Not injurious; harmless: as, illæsive games.

illapsive (i-lap'siv), a. [illapse + -ive.] Relating to an illapse, or inflowing of the Holy

illative. I. a. 4. In gram., noting the case expressing motion into. See *introcssive. Gat-schet, Gram. of the Klamath Lang., p. 482.

II. n. 3. In gram, the illative case.

Illaudatory (i-lâ'dā-tō-ri), a. [il-for in-3 priv. + laudatory.] Not given to praising: opposed to laudatory.

[The text of Tyrwhitt's] edition of the Canterbury Tales
... wrung energetic and unqualified praise from the **Claudatory* pen of Ritson. **Blackwood's Mag., LVII. 787.

ill-breeding (il'brē'ding), n. Bad breeding; bad manners; rudeness; bad bringing up: as, "the ill-breeding of modern young men." [Ori-

ginally written as two words.]
ill-come (il'kum'), a. Not well come; having come at a wrong time.

You are not ill come, neighbour Sordido, though I have not yet said, well-come.

B. Jonson, Every Man out of his Humour, ii. 1.

illegitimate, a. II. n. An emigrant who has come of his own volition and has not had 'legal reasons' for his voyage. See *legitimate, n., 2.

[Australia.]

illeism (il'ē-izm), n. [L. ille, he, + -ism.]

The unnecessarily frequent use of the pronoun he by a writer, especially in reference to him-

Me by a writer, especially in reference to himself in the third person; also, an instance of this use. Coleridge.

illeist (il'ē-ist), n. [L. ille, he, + -ist.] One who is given to illeism.

ill-gendered (il'jen'derd), a. Gendered unnaturally or irregularly. [Rare.]

The creature I had killed seemed to be of an ill-gendered kind, between a tiger and a leopard.

Defoe, Captain Singleton, vil.

ill-given (il'giv'n), a. Given to evil courses; having 'ill parts'; ill-disposed.

Salust was no soch man, neyther, for will to goodness, no skill by learning: but ill geuen by nature, and made worse by bringing up, spent the most part of his youth ver misorderly. Roger Ascham, The Scholemaster, il.

Illinoisan. I. a. 2. Specifically, in geol., noting an epoch or subdivision of the glacial period, of which the deposits are well devel-

period, of which the deposits are well developed in Illinois.

II. n. 2. One of the Illinois, an Indian tribe of Algonkian stock.

Illipe (il'i-pē), n. [Tamil name.] Same as illipe. This name properly belongs to Madhuca longifolia of southern India, but when the more northern mahwa-tree, M. Indica, is found in the same region, the same name is applied by the Tamils to both species.

Illoyalty (i-loi'al-ti), n. [il-3 + loyalty.] Disloyalty; want of loyalty.

A piece of cowardice and illoyalty.

A piece of cowardice and illoyalty.

The Standard, Sept. 25, 1882.

illucidate (i-lū'si-dāt), v. t.; pret. and pp. illucidated, ppr. illucidating. [il-2 + lucidus,

clear, + -ate².] To shed light upon; elucidate. Blount, Glossographia.
illucidation (i-lū-si-dā'shon), n. The act of throwing light upon something; elucidation.
Phillips, 1658.
illucidative (i-lū'si-dā-tive), a. [illucidate + in-land]

ive.] Tending to make clear. Tatfor Lamb's Final Memoirs, p. 256. illuminating-shell (i-lū'mi-nā-ting-shel),

A shell charged with combustible composition as well as a small bursting charge, designed to be fired at night and on bursting to illuminate

illusion

To shed light upon; elucidioses in the standard candle at a distance countries where the standard candle expressed in candle-meters where British to unit of illumination is the candle-meter where british the unit of illumination is the candle-meter where british the unit of illumination is the countries where the standard candle expressed in tuments where British the unit of illumination is and to the left from the illumination is the countries where the standard candle expressed in tuments, the lumen being is a beam which subtends one unit of one centimeter, the lumen being is a beam which subtends one square centility by a standard condineter, the lumen being is a beam which subtends one unit of smity of the source being one here, it angle subtends one square centility by one lumen of light-finx per square cost. Since the primary object of artipproduce illumination, the establish-ha sith lux by means of which the condineters the lux is the illusty one lumen of light-finx per square cost. Since the primary object of artipproduce illumination, the establish-has the lux by means of which the condineters objectively and the condineter of the lux is the illusty one lumen of light-finx per square cost. Since the primary object of artipproduce illumination, the establish-has the lux by means of which the lower plane nearer or farther examples are given in Fig. 3. Oppel's Lines.

illusion, H. A. member of the Illumination, See illumination. See illumination. See illumination. See illumination. See illumination is the elicity of the surface. Illumination is the elicity of the source being one here of the distance of one foot. One is a block projecting upwards and to the left from the plane of the paper; Fig. 2 may be seen either as a square centility of the source being one here of the primary object of artipproduce illumination, the establish-has the lux by means of which the order of the standard candineters (also the projecting upwards and the regular intervision of the paper. (2) Illumination is the cand as well as a small bursting charge, designed to be fired at night and on bursting to illuminate the enemy's position long enough to permit accurate pointing.

illumination, n. 1. Specifically, the measure of the amount of light falling on a surface. The illumination of a surface is proportional to the intensity of the source of light producing it, and it varies inversely as the square of the distance between the source and the illuminated surface. The unit of illumination is the lux, the illumination produced by a source of light having an intensity of one hefner and situated at a distance of one meter from the illuminated surface. Illumination is sometimes expressed in candle-meters (also written meter-candles), the candle-meter being the illumination produced by a standard candle at a distance of one meter. In countries where the standard candle has been defined as equal to the hefner, the candle-meter is the same as the lux. In those countries where British units still prevail, the unit of illumination is the candle-foot (also foot-candle), the illumination produced by a British standard candle at a distance of one foot. One candle-foot equals 12.2 luxes. The total flux of light from a given source is expressed in lumens, the lumen being the flux of light in a beam which subtends one square centimeter at a radius of one centimeter, the lux is the illumination produced by one lumen of light-flux per square centimeter of surface. Since the primary object of artificial lighting is to produce illumination, the establishment of a unit such as the lux, by means of which the illumination can be definitely measured and expressed, is of great importance in photometry. Instruments employed for the measurement of the intensity of the sources of light are called photometers. Any special form of photometers used for the direct determination of illumination is called a luminometer (sometimes written illumination received upon a screen.

Source of light.

Source of light,	Lumens of flux.
Petroleum flame	3.79
Acetylene flame	20.82
Lime (freshly ignited)	56.71
Lime (old)	16.65
Electric arc, alternating 550 watts	330.00
Electric arc, direct carbons parallel 550 watts	464.80
Electric arc, direct carbons at 90° 550 watts	700.00
Electric arc. direct carbons at 154° 500 watts	921.60

The amount of energy necessary to produce an illumination of one lux varies with the temperature of the source of light and with the character of the radiating surface. The art of artificial illumination consists in furnishing the requisite amount of light of suitable color at the place where illumination is required. To fulfil these conditions it is requisite to know the illumination adequate for a given purpose in definite measure: for reading and writing, for example, it is found that the minimum illumination of the page permissible varies from 5 to 50 luxes, according to the size of the type and the character of the paper. For each purpose for which artificial light is used there is a proper illumination, and only when this is definitely known may methods of precision be applied.

7. In the pictorial arts, the quality and quantity of light expressed.

The illumination is that of the open air tempered and

The illumination is that of the open air, tempered and

modified by an overhanging canopy of green.

C. Phillips, in Portfolio, N. S., July, 1898, p. 24. Equivalent illumination, the ratio of the illuminating power of a light to that of a standard light.—Hemisphere of illumination. See *hemisphere.

Illuminatist (i-lū'mi-nā-tist), n. One of the

Illuminati.

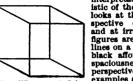
Illuminati.

illuminator, n.—Monochromatic illuminator, in optica, a device for isolating an approximately monochromatic region of the spectrum and concentrating the rays thus obtained.—Vertical illuminator, an apparatus accessory to a microscope which adapts it to the observation of opaque objects. A simple form consists of a coverglass mounted at an angle of 46 in a nose-piece placed between the objective and the body-tube. Light admitted through a side aperture is reflected from the cover-glass through the lenses of the objective upon the object under examination. The light is then reflected back in a vertical beam through the objective and the cover-glass to the eyepiece. This attachment is indispensable for the examination of metals in metallography.

illuminist (i-lū'mi-nist), n. [illumine + -ist.] 1. An illuminator of manuscripts, books, etc.

[The cuts] are generally no more than rude outlines, having been intended to pass through the hands of the *Illuminist*, without whose aid some portion of the subject or design would be totally unintelligible.

S. W. Singer, Hist. Playing Cards, p. 104.





equal, the filled spaces appear larger than the open. Typical of the latter are the illusions embodied in Fig. 5, where, in spite of objective equality, the vertical line seems longer than the horizontal, and the upper half of the vertical longer than the lower.

(3) Illusions of direction. These, like the illusions of extent, may be variable or constant. Instances of the former class have been given under *#igure (Hering's and Wundt's *figures; Münsterberg's *figure; Poggendorf's *#igure; Zöllner's *#igure. Typical of the latter class is



Fig. 6. Von Recklinghausen's Illusion.

Von Recklinghausen's illusion, shown in Fig. 6. If the figure is held a short distance from the eye, and its center steadily fixated, the hyperbolus become straight lines so that the figure resembles a chess-board. (4) Illusions



Fig. 9 there is a variable illusion of direc-

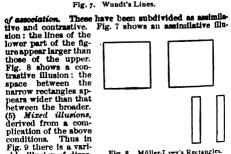


Fig. 8. Müller-Lyer's Rectangles.

tion: the smaller arc seems to be-long to a circle of greater radius than the larger arc. There is also an illusion of assimilation: the

tion: the smaller arc seems to belong to a circle of greater radius than the larger arc. There is also an illusion of assimilation: the larger and smaller arcs are referred to the same center. This class of illusions is, naturally, very wide. Finally (6), we may perhaps add, since by certain theorists they are connected with the geometrical optical illusions, the group of visual illusions of movement, one of which has been described under the term *antirrheoscope. Explanations of these illusions range, as explanations of such phenomena always have ranged, between the two poles of physiology and psychology. Some investigators make them entirely a matter of perception, conditioned upon the structure and function of the sense-organ; they work with such factors as the nature of the retinal image, the direction of fixation, the movements of the eye. They point out, for instance, that reversal of perspective in class I can always be brought about by a shift of fixation, and that the spontaneous reversals noticed in ordinary observation are invariably connected with such shift, unconsciously made. They point out, again, that the extension and contraction of the lines in the Müller-Lyer figure may very well depend upon furtherance and arrest of eye-movement, according to the direction of the oblique end-pleces. Others, on the contrary, appeal, if not outright to such mental faculties as 'will' and 'imagination,' at any rate to purely psychological conditions; they make the illusions a matter not of perception but of judgment and association. The Müller-Lyer lines lengthen and shorten with the nature of the end-pleces because we read our own mechanical activities into the figure, feel ourselves in it as free or as constrained: eye-movements, save possibly as the vehicle by which these activities, efforts, and tensions come to expression, have nothing to do with the illusion. Between these extremes lie various forms of mixed interpretation; and it may be said definitely that, in the present state of our knowledge, recour

You cannot go beyond illusion in that direction, and yet illusion will only give you the sort of pleasure you derive from looking at a rope-dancer.

W. Armstrong, in Portfolio, N. S., Feb., 1895, p. 78.

Arrow-head and feather illusion, the illusion of the Miller-Lyer figure. See *figure.— Von Recklinghausen's illusion. See *illusion, 2.

illusionary (i-lū'zhon-ā-ri), a. [illusion + -aryl.] Having the characteristics of an illusion; fallacious; illusory.

The altered and *illusionary* perception of these numerous sensations increases with the concentration of the attention upon the self. *Buck*, Med. Handbook, V. 131. illusorily (i-lū'sō-ri-li), adv. manner; by way of illusion. In an illusory

It is not that we see aright but judge wrongly: we actually see illusorily.

E. B. Titchener, Exper. Psychol., I. i. 152.

llusory form. See *form.—Illusory power or appointment. See *power!.

illustration, n. 5. In music, same as develop-

ment [Rare.]

Illyrian, n. 4. The language of Illyria, or the group of ancient dialects represented by the modern Albanian; also applied to the modern Slavic dialects of the same or adjacent districts.

Illyric (i-lir'ik), a. and n. Same as Illyrian. Hocan (i-lo'kan), a. and n. Same as *Ilo-

Ilocano (il-ō-kā'nō), a. and n. [Philippine Sp., \(\textit{Ilocos}, \text{ name of two provinces, prop. 'river men' (Tagalog ilog, river).] I. a. Of or pertaining to the Ilocanos or their language.

taining to the Ilocanos or their language.

II. n. 1. A member of one of the Malay tribes of the Philippine Islands, inhabiting the extreme northwestern part of Luzon.—2. An extreme northwestern part of Luzon.—3. An extreme northwestern part of Luzon.—3. An extreme northwestern part of Luzon.—3. An extreme northwestern part of Luzon.—4. An extreme northwestern part of Luzon.—5. An extreme northwestern par

-3. The language of the Ilocanos.

I. L. P. An abbreviation of Independent Labor

ilumba (i-löm'bä), n. [Aboriginal name in central Australia.] An Australian timbertree, Eucalyptus tesselaris, by the settlers commonly called Moreton Bay ash. See *ash.

Ilyanthidæ (il-i-an'thi-dē), n. pl. [NL., < Il-yanthus + -idæ.] A family of zoantharians, of the order Actiniidea, which have free forms imaginate (i-maj'i-nāt), v. t.; pret. and pp. immersion, n. 7. An antiquated term for the not adhering by a basal disk and the aboral imaginated, ppr. imaginating. [L. imago (-gin-), introduction of a solid substance into a liquid

end of the body rounded. It includes the genera Ilyanthus, Halcampa, and Peachia.

genera Ilyanthus, Halcampa, and Peachia.

Ilyanthus (il-i-an'thus), n. [NL. (Dana, 1846),

⟨ Gr. ἰλίς, mud, + ἀνθος, flower.] The typical
genus of the family Ilyanthidæ.

ilyogenic (il'i-ō-jen'ik), a. [Gr. ἰλίς, mud, +

-γενης, -producing, + -ic.] In petrog., of argillaceous origin: applied to rocks derived from
mud. Renevier, 1881.

Ilyonhidæ (il-i-of'i-dō), n. nl. [NL. ⟨ llyonhis]

on the western coast of the United States.

image, n.—Dermal image, in psychol., an image of
a dermal sensation; an image of pressure, cold, warmth,
or cutaneous pain.—Generic image, in psychol., a composite image derived from a number of like perceptions
and standing to these much as the composite photograph
stands to its originals: regarded by many psychologists
as the vehicle or representative of the abstract idea.

as the vehicle or representative of the abstract idea.

Abstraction and generalization with no possible aid from language. These are called generic images by Huxley, Galton and Ribot. They are the same as Romanes's recepts, and are intermediate between the pure image on the one hand and generalizations on the other.

Amer. Jour. Psychol., XIII. 201.

Gustatory image, in psychol., a reproduced sensation of taste; an image which stands to the peripherally excited sensation of taste as the image of a color stands to the peripherally excited color-sensation.—Haptical image, in psychol., a reproduced haptical sensation; an image that stands to the peripherally excited haptical sensation as the image of a color stands to the peripherally excited color-sensation.

Haptical images, beside being vague and ill-defined, fer peculiar difficulties. Amer. Jour. Psychol., XL 25. Heteronymous images, in physiol. optics, the two images seen in binocular vision when the eyes are focused upon a point beyond the object.—Homonymous images, in physiol. optics, the two images seen in binocular vision when the eyes are focused upon a point nearer than the object.—Kinesthetic image, in psychol., a mental representation in kind of a peripherally aroused kinesthetic sensation, or group of kinesthetic sensations; a centrally excited kinesthetic sensation or sensation-group.

excited kinesthetic sensation or sensation-group.

I have no doubt, in my own case, of the existence of visual and auditory images. . . I have no doubt, from the reports of others, of the existence of free kinaesthetic images, verbal or other.

Jour. Philos., Psychol. and Sci. Methods, Jan. 21, 1908, [p. 38.

Latent image, in photog., the invisible image resulting from the action of light upon a sensitive photographic surface, which quickly becomes perceptible when treated with a reducing agent or developer.—Olfactory image, in psychol., a mental representation in kind of a peripherally aroused olfactory sensation; a centrally excited olfactory sensation.

In the two following cases, the olfactory image only exists in a single instance, and appears to be produced by the combined operation of concomitant circumstances.

Ribot (trans.), Psychol. of Emotions, p. 145.

Ribot (trana.), Psychol. of Emotions, p. 145.

Pure image, in psychol., an individual mental representation in kind of a peripherally aroused sensation or sensation-group; a concrete idea, as opposed to the generic image or the concept. Amer. Jour. Psychol., XIII. 201.

—Purkinje's image. (a) Same as Purkinje's figures (which see, under figure). (b) Images (as of a candle flame) reflected from the anterior and posterior surfaces of the crystalline lens and from the front of the cornea. The middle image (that from the anterior surface of the lens) varies in size and position as the eye is alternately accommodated for a farther and a nearer point. E. C. Sanford, Exper. Psychol., p. 93.—Real image, any image formed at the actual intersection of rays brought to focus by an optical system: opposed to virtual image (which see, under virtual).

imagerial (im-ā-jē'ri-al), a. [Irreg. < imagery + -al¹.] Relating to imagery; symbolic; employing figurative illustrations.

Herat is called, after the *imagerial* way of the Easterns, the key of India. Household Words, IV. 230. N. E. D. imagerially (im-ā-jē'ri-al-i), adv. Figuratively.

Ladies are creation's glory, but they are anti-climax, recoil, cross-current; morally they are repentance, penance; imagerially, the frozen North on the young brown buds bursting to green. G. Meredith, Egoist, xx.

of a given space, called the object-space, are situated. P. Drude, Theory of Optics, p. 15. Imaginal buds. See *bud1.—Imaginal fold. Same as imaginal disk.

[Aboriginal name in imaginary. I. a.—Imaginary number, unit. See An Australian timber- *number, etc.

II. n.—Galois imaginary, a kind of imaginary number occupying the same position in the theory of congruences that is occupied by the ordinary complex numbers in the theory of equations.—Pure imaginary,

image, + -ate2.] In entom., to transform from a pupa into an imago.

imagination, n. 5. In entom., the act of transforming into an image or of reaching the imaginal stage: said of insects completing imaginal stage: said of insects completing their metamorphosis.— Imagination consciousness, in psychol., consciousness as it is constituted and disposed during the exercise of imagination; the contents and arrangement of contents characteristic of the imagining mind. E. B. Titchener, Exper. Psychol., I. 1. imbalance (im-bal'ans), n. [im-3 + balance.] Defective balance; specifically, a lack of equality in the tension and contractile strength of the ava-muscles, leading to heterophoria.

mud. Renevier, 1881.

Ilyophidæ (il-i-of'i-dē), n. pl. [NL., < Ilyophis + -idæ.] A family of deep-sea eels from the eastern Pacific, commonly called oose-cels.

Ilyophis (i-li'ō-fis), n. [NL., < Gr. ιλύς, mud, + δφις, snake.] A genus of deep-sea eels of the family Ilyophidæ. They are found in the eastern Pacific.

The parametric fills of the family Ilyophidæ.

They are found in the eastern Pacific.

They are found in the eastern Pacific Paci

eastern Pacific.

Hypnus (i-lip'nus), n. [NL., < Gr. i\lambda construction of the family Gobiidæ, which inhabit mud-flats on the western coast of the United States.

Image, n.—Dermal image, in psychol., an image of a dermal sensation; an image of pressure, cold, warmth, or cutaneous pain.—Generic image, in psychol., a composite image derived from a number of like perceptions and standing to these much as the composite photograph stands to its originals: regarded by many psychologists stands to its originals: regarded by many psychologists and standard constructions.

imbe (im-ba'), n. [Drazinan, lians.

Imbibition theory, in bot., the theory that the sap of plants ascends by a chemical process carried on by the vessels: proposed and defended by Sachs.—Water of imbibition. (a) The water held by the action of the molecular forces within the pores of a substance which its soaked or water which the soil is capable of retaining above the level of ground-water. (b) Same as quarry-water.

Imbrocado (im-brō-kā'dō), n. Same as *embrocado, 2.

imesatin (i-mes'a-tin), n. [im(ide) + isatin.]A dark-yellow compound, $C_8H_6ON_2$, prepared by the action of ammonia on isatin. It crystallizes in prisms.

Imhofia (im-hō'fi-ā), n. [NL. (Heister, 1753-1755), named after Imhof, a privy councilor of Braunschweig and a patron of botany.] A genus of plants of the family Amaryllidaceæ. See Nerine.

imidazol (ī-mid-az'ol), n. [imide +az(o)-+-ol.] Same as *glyoxaline.
imido-acid (ī'mi-dō-as'id), n. An incorrect form of *iminoacid.

imido-ether (ī'mi-dō-ē'thèr), n. An incorrect form of *iminoester.

imino. [A combining form of *imine, < im-(ide) + -ine².] A combining form used in chemistry to indicate the presence, in the compound, of the divalent group NH. Incorrectly imido-.—Imino-acid, an acid which contains the group: NH combined with the hydrocarbon radical of group: N

imino-ester (i'mi-nō-es'ter), n. A class of compounds, HN: ROR, prepared by the action of gaseous hydrogen chlorid on a mixture of a nitrile and an alcohol. The substances are basic and stable toward water. Also called, less correctly, imido-ether.

less correctly, imido-einer.
imitation, n.—Laws of imitation. See *law1.
immatriculate (im-\(\bar{e}\)-trik'\(\bar{u}\)-l\(\bar{e}\)-trik'\(\bar{u}\)-l\(\bar{e}\), v. t.; pret.
and pp. immatriculated, ppr. immatriculating.
[im-\(\bar{e}\) + matriculate, v. (after G. immatriculieren).] To matriculate.
immatriculation (im-\(\bar{e}\)-trik-\(\bar{u}\)-l\(\bar{e}\)'shon), n. [G. immatriculation.] Matriculation, "especially in a Gorman university.

immatriculation.] Matriculation and German university.

immedial (i-mē'di-al), a. [immedi(ate) + -all.] A trade-name applied to certain coal-tar colors of the sulphid type.— Immedial black, blue. See *black, *blue.

mmediatism, n. 2. In U. S. hist., the principles of the immediatists.

The speaker [H. G. Otis] was prepared to denounce the Society [for the immediate abolition of slavery] as a "dangerous association." . . Its immediatism makes it a revolutionary society.

Garrison, Life of William Lloyd Garrison, I. 499.

immediatist (i-mē'di-ā-tist), n. [immediate + -ist.] One who believes in immediate action; specifically, in U. S. hist., one who favored the immediate abolition of slavery.

He [H. G. Otis] denounced the "higher law"; denied that the Scriptures were anywhere opposed to Slavery; repeated that Christ "was not an immediatist."

Garrison, Life of William Lloyd Garrison, L 500.

immediatorial (i-mē'di-ā-tō-ri-al), a. [in-3 + mediatorial.] Not mediatorial.

When the object of the present Kingdom of Christ has been attained in the conquest of evil, there will be no louger need of a mediator. Then God will be known immediately. We shall know Him, when the mediatorial has merged in the immediatorial, in a way more high, more intimate, more sublime than even through Christ. F.W. Robertson, Lectures on Epistles to Cor., Lecture xxx.

Immemorial usage. See *usage.
immergence (i-mer'jens), n. [immerge +
-ence.] The act of immerging or plunging or
sinking into or under anything; immersion: as, immergence in water.
immersement (i-mers'ment), n. Same as *im-

mergence

reagent in order to produce chemical change, as the calcination of tin by immersion in nitric as the catenation of this planters of the placement.—Immersion system, in microscopy, an objective lens system designed for use with a layer of liquid between the objective and the cover-glass. See immersion, 5.—Oil-immersion lens, See *lens.—Wedge of immersion. See *wedge!
immethodic (im-ē-thod'ik), a. [im-3 + methodic.] Same as immethodical.

immigration, n.—Bureau of Immigration. See

immigrator (im'i-grā-tor), n. An immigrant. Lytton. N. E. D.

Lytton. N. E. D.
immigratory (im'i-grā-tō-ri), a. [immigrate
+-ory.] Pertaining to immigration.
Both immigratory and emigratory [movements of
birds].
The Naturalist, Jan. 13, 1897.
immissivity (i-mi-siv'i-ti), n. [in-2 + missive + -ity.] Absorbing power for radiation, expressed either in terms of that of a black body pressed either in terms of that of a black body or in absolute measure. Like emissivity, which is the corresponding physical constant for radiation, immissivity is defined in various ways: sometimes as the quantity of heat absorbed per second by a square centimeter of surface when the difference of temperature between the absorbing body and its surroundings is 1°C. A more usual measure of immissity is by means of the coefficient of absorption. See absorption of light.

immixture² (i-miks'tūr), n. [in-2 + mixture.] The action of mixing; commingling; the condition of being mixed up in (something).

dition of being mixed up in (something).

It [a principle] has enabled the court to avoid an immixture in political strife which must have destroyed its credit.

Bryce, Amer. Commonwealth, I. xxiv. immoderacy (i-mod'e-rā-si), n. Want of moderation. Sir T. Browne, Christian Morals, ii. § 1. immodulated (i-mod'ū-lā-ted), p. a. [in-3 + modulated.] Unmodulated.

His voice was harsh and immodulated.

J. A. Symonds. Shelley, p. 11. N. E. D. immolation, n. 3. The title of the eucharistic preface in the Gallican liturgy: so called because it is an introduction to the sacrifice

because it is an introduction to the sacrifice of the mass. See preface, 2. immoralist (i-mor'al-ist), n. [immoral + -ist.]

One who opposes or disregards the principles

of morality.

That arch im-moralist . . . Goethe. immoralize (i-mor'al-iz), v. t.; pret. and pp. immoralized, ppr. immoralizing. To demoralize; make immoral.

Immortal flower. Same as immortelle.

Immotive (i-mō'tiv), a. [in-3 + motive.] Incapable of moving or of being moved. Feltham, Resolves, I. 190. N. E. D.

Immundity (i-mun'di-ti), n. [L. *immunditas, besides immunditia and immundities, < immunditias and immundities, < immunditias and immundities, < immundities.

mundus, unclean: see immund.] Uncleanness; an unclean or impure thing.

The ascription to Sappho of the various extravagances and immundities of the common myth.

E. H. Pember, Tragedy of Lesbos, Pref., p. 11. N. E. D. immune. I. a.—Immune body. Same as *amboceptor.—Immune proteid, any protective albuminous substance, in the sense of an antitoxin or a bacteriolysin.—Immune serum, the serum of an immunized animal, containing the specific antibody to the substance used in immunization. See *immunity, 5.—Partial immune body, one of a number of bodies of which, according to Ehrlich, each immune body is composed. See *immunity. 5.

ity, 6.

II. n. One who is exempt; specifically, one who is protected from a particular disease by

inoculation or by a previous attack.

immunify (i-mū'ni-fi), v. t.; pret. and pp. immunifed, ppr. immunifying. [L. immunis, safe, + -ficare, < facere, make.] To make immune; immunize.

immunist (i-mū'nist), n. [immune + One who erjoys a certain exemption or immunity. See immunity, 1.

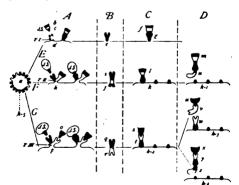
It is conceded that the 'immunist' (it is convenient to borrow a term that French writers have coined) is entitled to many of the fines and forfeitures that arise from offences committed within his territory.

F. W. Maitland, Domesday Book and Beyond, p. 277.

F. W. Mailland, Domesday Book and Beyond, p. 277.

immunity, n. 5. In pathol., a lack or absence of susceptibility to disease. This may be either natural or acquired. Natural immunity may be of the most varied character. Thus it is found that animals are altogether insusceptible to many diseases which are common in man, such as yellow fever, smallpox, scarlet fever, measles, etc.; the cold-blooded animals, as a class, are free from many diseases which are common in the warm-blooded animals; birds and reptiles are exempt from tetanus, mice and rats from diphtheria. Again, children are much more prone to certain diseases (as measles, scarlatins, diphtheria, etc.) than adults. Certain individuals appear immune against diseases to which others of the same species readily succumb. A familiar example of acquired immunity, on the other hand, is that which follows an attack of yellow fever, or smallpox, typhold fever, scarlet fever, etc. Immunity of this character, which depends upon actual infection, is called active immunity, since the body itself is active in its production. This is in contradistinction to passive immunity,

which is referable to the introduction of protective substances from without. Such immunity is seen, for example, following protective injections of diphtheris and toxin. Knowledge regarding the essential factors which are operative in the production of immunity to disease is still very defective, but many points have been worked out from which a general idea of the process can be formed. Through the researches of Ehrlich and his pupils in Germany more especially, and of Metchnikoff and Bordet in France, besides many others, the concept of immunity has been materially amplified; for it has been shown that the animal body has a mechanism of self-protection which is of the most extensive character and is directed not only against the harmful effects of bacteris but also against all alien cellular elements and cell-products of whatever kind, in so far, at least, as these latter are of an albuminous character. Thus it has been ascertained that the injection of certain soluble toxins leads to the production of corresponding crucilysins or cytotoxins, the production of corresponding crucilysins or cytotoxins, such as hemolysins, leucolysins, neurolysins, endotheliolysins, spermatolysins, and so na paparently without limit. Then, again, it was shown that the injection of certain cells calls forth the production of corresponding crucilysins or cytotoxins, such as hemolysins, leucolysins, neurolysins, endotheliolysins, spermatolysins, and so na paparently without limit. Then, again, it was shown that the injection of certain cells calls forth the production of corresponding crucilysins or cytotoxins, such as hemolysins, leucolysins, neurolysins, endotheliolysins, spermatolysins, and so na paparently without limit. Then, again, it was shown that the injection of certain cells calls forth the production of corresponding crucilysins of the crucil control of certain allowing the production of certain cells calls forth the production of corresponding on injection of certain allowing the cells in question. Yellowing cell cont



General Scheme Illustrating Ehrlich's Lateral-chain Theory.

General Scheme Illustrating Ehrlich's Lateral-chain Theory, A, action of immunizing substances (J. S.) upon receptors I, II, and III (II, III, III) of the body-cells: B, cast-off free receptors (haptins); C, action of antibodies upon the soluble products (toxins) of cells or the cells themselves; D, action of anti-agglutinins, anti-immune bodies, anticomplements, which result on injection of agglutinns, hemolysins, etc.; E, soluble products --toxins, ferments; E, insoluble substances, producing agglutinins and coagulis; E, insoluble substances, producing agglutinins and coagulis; E, insoluble substances, leading to production of cytotoxic (bactericidal) immune substances; E, toxophoric group; E, haptophoric group; E, P, body-cells; E (E-F to E-S), cells used in immunization; e, complement; e, antitoxin, antiferment; e, haptophoric group; E, romplement; e, antitoxin, antiferment; e, haptophoric group; E, complement; e, complement; e, immune body of the hemolysins, bacteriolysins, etc.; E, toxin; e antitoxin; e, antiagglutinin; e, complement; e, immune body; e, complemen

impair

groups, or haptophores, which will fit the receptors of the cell. Ehrlich recognizes three varieties of receptors, which he classifies as belonging to the first, the second, and the third order. Those of the first and second orders contain only one combining group, for the alien material, which is to act upon the cell; for this reason they are termed uniceptors: while the receptors of the third order have two combining groups and are called and third orders the alien material, antigen or immunizing body, as it is generally termed, is capable of producing its specific effect upon the cell only in the presence of a ferment-like substance which must be especially supplied, as the so-called complement in the case of receptors of the third order, while in those of the second such a complex represents an integral component of the receptor of the third order, while in those of the second of the receptors of a cell, those receptors are practically lost to the cell. In accordance with Weigert's overproduction theory, this loss, unless the cell has been injured beyond the possibility of recovery, is then not only made up by the production of other receptors of the same kind, but an overproduction occurs. The supernumerary side-chains are thrown off, and now circulate in the blood in the free state. In this condition they are known as haptines, and, like the original sessile receptors, they may be of the first, second, or third order, as already described. As their presence in the blood in the free state prevents the access of foreign cellular products to the cell, these haptines are antagonistic in their acting that they are formed as a result of an effort on the part of the body to adapt itself to the presence of the foreign substances. The sera in question are similarly known as antisera or immune sera. Upon this basis matural immunity, in entradistinction to antitoxic immunity, in the case of malignant tumors,—Opeonic immunity, immunity, on the other hand, is the result of infection and the consequent formatio

to foreign cells or cell products, brought about by the injection of such foreign material. See

*immunity, 5.
immunizator (i-mū-ni-zā'tor), n. One who or that which immunizes or renders immune.

that which immunizes or renders immune.

immunize (i-mū'nīz), v. t.; pret. and pp. immunized, ppr. immunizing. [immune + -ize.] To produce immunity in; render immune.

immunochemistry (i-mū-nō-kem'is-tri), n.

[immune + chemistry.] The chemical study of immunitv. Arrhenius (trans.).

immunotoxin (i-mū-nō-tok'sin), n. [immune + toxin.] Antitoxin employed in the prevention of disease.

immure, v. t. 3. To build into a wall; imbed iu masonry.

in mayor, v. t. 3. To build into a wall; imbed in masonry.

In them [the walls] are imbedded a large number of marble blocks, many of them square bases, stuck end outmost into the masonry. A curious decorative effect is given by a course of small marble columns similarly immured, the ends showing as a string of white circles. Geol. Jour. (R. G. S.), IX 160.

imo (ô'mō), n. [Japanese name.] In Japan, a generic name for edible roots, such as yams, not toog sweet not trees and term. Used alone.

potatoes, sweet-potatoes, and taro. Used alone without a qualifying prefix, it is especially applied in Japan and in Korea to the taro, Caladium Colocasia, which is also called in Japan sato-imo. See Colocasia, taro1, and *aabi.

Imouthes (i-mö'thēz), n. [Gr. Ἰμοίθης, also Ἰμούθ, repr. Egypt. I-em-hotep.] I-em-hotep, an Egyptian god of medicine.
 Imouthes (i-mö'thēz), n. [Gr. Ἰμοίθης, also Ἰμούθ, repr. Egyptian god of medicine.
 Imp., n. 7. The length of twisted hair in a property of the control of the contr

imp, n. 7. fishing-line.

Imp. An abbreviation (a) of the Latin Imperator,

emperor; (b) of Imperatrix, empress.

imp. An abbreviation (a) of imperative; (b) of imperfect (tense); (c) of imperial; (d) of imperial; personal; (e) of the Latin imprimatur, let it be printed.

printed.

impact-figure (im'pakt-fig'ūr). n. Same as percussion-figure (which see, under percussion).

impair², a. 2. Not one of a pair; odd; unmatched. Todd, Cyc. Anat., III. 829.

II. n. 1. An impaired or odd thing: an article without a mate.—2. In roulette, an odd

The (roulette) wheel is divided into thirty-seven compartments, . . numbered from one to thirty-six, the thirty-seventh being zero. Pair indicates even numbers, impair odd numbers. Encyc. Brit., XXXII. 304.

impala (im-pä'lä), n. [Also impalla, impallah. and pala; from an African name.] An African antelopeof thegenus Epyceros, which has rather antelope of the genus Epyceros, which has rather long, divergent, lyrate horns. The best-known species is Æ. melampus of South Africa, of a dark-red color, white below, standing about 3 feet high. A small race of this species inhabits Nyassaland. Another species, Æ. petersi, with black marking on the face, is found in West Africa, in Angola. Also known as pala.

impaludism (im-pal'ū-dizm), n. [L. in, in, + palus (palud-), marsh, + -ism.] Chronic malaria;

malarial cachexy.
impanel² (im-pan'el), v. t.; pret. and pp. impaneled, impanelled, ppr. impaneling, impancl-ling. [in-2 + panel.] 1. To decorate or fit with panels: as, a house impaneled with oak.— 2. To place as a panel in a wall.

Telford used to take much pleasure in pointing out to his visitors the painting of Westminster Bridge impanelled in the wall.

Smiles, Engineers, II. 474.

imparasite (im-par'a-sīt), n. [in-3 + parasite.] An insect which is predatory and carnivorous, but is not a parasite. Kirby and Spence.

imparlance, n.—General special imparlance, in law, an imparlance in which the defendant reserves all advantages and exceptions whatsoever, including the right to a plea that the court has no jurisdiction of the cause. impartance (im-par'tans), n. [impart + -ance.] The act of imparting; impartment.

The balance between two opposing impartances of

orality. Shelley, Letter to Elizabeth Hitchener, Oct. 18, 1811. [$N.\ E.\ D.$

imparticipable (im-pär-tis'i-pa-bl), a. and n. [in-3 + participable.] I. a. That can not be shared or divided.

In radiant thousands, each star reigns
In imparticipable royalty
Leaderless, uncontrasted with the light
Wherein their light is lost.

Bailey, Festus, x. 88.

II. n. A thing that can not be shared or divided.

Every imparticipable produces twofold orders of things participated. P. Taylor, Procus, IL 359. N. E. D.

impartivity (im-pär-tiv'i-ti), n. Imparting power; specifically, the power of an electric heater to impart heat to its surroundings.

Where high temperatures and rapid rates of impartivity re required lower variable voltages are used.

Elect. World and Engin., Jan. 9, 1904, p. 85.

impasto, n. 2. In ceram., enamel colors or slip laid so thickly on the ware, in decoration, as to stand out from its surface in relief.

Impatientaces (im -pā"shi - en -tā 'sē-ē), n. pl. [NL. (Bornhart, 1895), < Impatiens + -aces.] A family of dicotyledonous choripetalous plants of the order Sapindales, the jewel-weed family, typified by the genus Impatiens (which

family, typified by the genus Impatiens (Which see). There is only one other monotypic genus, Hydrocera, a native of the East Indies. The family has generally been called Balsaminaces, a term based on an untenable genus name and therefore invalid. impayable (im-pā'a-bl), a. [OF. empayable, unappeasable, not to be paid for, < in-priv. + payable, payable.] 1. That can not be paid: as, impayable debts or obligations. Monthly Rev., YYIII 80—2 Revond navment: priceless. XXIII. 60.-2. Beyond payment; priceless.

[Colloq., French use.]

The cheese, the fruits, the salad, the olives, . . . and the delicious white wine, each in their way were impayables; and the good marquis . . . observed that his guests did sincere homage to their merits.

Scott, Quentin Durward, Introd., p. xxix.

impecuniary (im-pē-kū'ni-ā-ri), a. [in-3 + pecuniary.] 1. Impecunious.

This day have I received information from my man of law of the non—and never likely to be—performance of purchase by Mr. Claughton of impecuniary memory.

Byron, Letter 188, Works, 11L 96.

2. Having no relation to money; not pecuniary.

It is in vain that in this hemisphere we endeavour after

imped (im'ped), n. [NL. *impes (imped-), tr. Gr. ἀπους (Aristotle), < in-3 priv. + pes (ped-), foot.] An animal without feet.

Aristotle had divided the group (warm-blooded vertebrates) into bipeds, quadrupeds, and impeds. The quadrupeds formed the great bulk. The impeds living in the sea, as fishes, were warm blooded and breathed aft; the bipeds were ourselves.

Owen, in Life, II. 119.

impeda were curseives.

Other, in Life, il. 118.

impedance, n. Impedance is the apparent resistance of an alternating-current circuit, or the ratio of the electromotive force consumed by an alternating current, divided by the current. On account of the electromotive force consumed by self-induction, the apparent resistance with alternating currents is greater than that with direct currents, though the power-consumption is the same. The impedance consists of two components—resistance, which

consumes power, and reactance, which is the wattless resistance due to self-induction. See resistance, 3, and *reactance.—Absolute impedance, impedance expressed in the absolute units of the c. g. a system.—Impedance factor. See *factor.—Internal impedance, in elect., the square root of the sum of the squares of the internal resistance and reactance.

A synchronous motor of internal impedance Z. Steinmetz, Elements of Electrical Engineering, p. 102.

impediment, n.— Prohibitive impediments, in law, impediments to marriage which subject the offending party to punishment in case of marriage in spite of them, but which are not sufficient to annul or avoid the marriage.— Relative impediments, is law, impediments to marriage caused by the parties being within the prohibited decrease of consanguinity.

mpeller, n. 2. Specifically, the revolving wheel or pumping element of a centrifugal fan

or pump.

or pump.

The conoidal pump is especially designed for pumping large volumes against low heads. In general appearance, it is somewhat different from the ordinary centrifugal pump, due partially to the widening of the pump chamber to admit a special form of impeller.

Elect. Rev., Aug. 27, 1904, p. 318.

impenetrate (im-pen'ē-trāt), v. t.; pret. and pp. impenetrated, ppr. impenetrating.

penetrate.] To penetrate; permeate.

. . surrounding and impenetrating the beloved with radianc Mrs. Craik, Romantic Tales, p. 318. N. E. D.

An abbreviation of imperative

Imperata (im-pe-rā'tā), n. [NL. (Cyrilli, 1792), named in bonor of Ferrante Imperato, an named in honor of Ferrante Imperato, an Italian apothecary who in 1599 published a natural history of Naples.] A genus of grasses related to Saccharum. They are erect, often tall perennials with long, cylindrical, spike-like terminal panicles, each spikelet surrounded by long, silvery, sliky hairs. There are five species, widely distributed in tropical and subtropical regions. I arundinaeea is the cogon of the Philippine Islands and the alang-alang of the Malay Archipelago. See *alang-alang.

of the Malay Archipelago. See *alang-alang.

imperation (im-pe-rā'shon), n. [NL. *imperatio(n-), < L. imperare, command: see imperative.] The power or action of governing; com-

manding.

What is dominion? It is either the power of contrecta-tion, or else that of imperation. . . Under the head of the power of imperation is comprised all the power which the sovereign is accustomed to exercise. Bentham, Prin. Internat. Law, Works, II. 540.

imperative, n.—Social imperative, social constraint and sanction within the domain of belief and action.

imperf., impf. Abbreviations of imperfect. Imperfect square, cube, etc., a number whose square root, cube root, etc., is irrational. imperfective (im-per-fek'tiv), a. [imperfect +

-ive.] 1. Imperfect.—2. Serving to express action not completed (either continuous or repeated at various times): applied to a form or 'aspect' of the Slavic verb.

imperforate, a. 2. As applied to the shells of the gastropod *Mollusca*, having the inner parts of the whorls coalesced into a columella leaving no opening or perforation. In the Echinoidea, or sea-urchins, the mamelons which support the spines are imperforate when not pierced by a central foramen.

mperial, n. 11. A member of the imperial

imperial, n. or emperor's party; a soldier of the imperial army.

The Emperor and Germans, or if you please the Im-R. Johnson, Kingdom and Commonwealth, p. 101. N. E. D.

12. An imperial personage; an emperor. I have received my proportion, like the prodigious son, and am going with Sir Proteus to the *Imperial's* Court. Shak., T. G. of V., if. 3.

At twelve the *Imperials* [the Emperor and Empress of Russia] retired and dismissed us.

*Motley, Correspondence, I. 89. N. E. D.

Mottey, Correspondence, I. 89. N. E. D.

imperialine (im-pē'ri-a-lin), n. [NL. imperialis impound, v. t. 3. To gather and retain (water) in a reservoir, basin, or pond.

levorotatory alkaloid, C₃₅H₆₀O₄N, contained in the bulbs of Fritillaria imperialis. It crystallizes in short needles, darkens at 248° C., and related 1540 C.

It is in vain that in this nemispacie we shall impecuniary fancies.

meits at 2027—0.

Bagehot, Literary Studies, I. 268. N. E. D.

imperialism, n. 3. Specifically—(a) "In recent British politics, the principle or policy Gr. άπους (Aristotle), (in-3 priv. + pes (ped-), (1) of seeking, or at least not refusing, an extension of the British Empire in directions are trading interests and investment's rewhere trading interests and investments require the protection of the flag; and (2) of so uniting the different parts of the Empire havunting the different parts of the Empire naving separate governments, as to secure that for certain purposes, such as warlike defence, internal commerce, copyright, and postal communication, they shall be practically a single state." N. E. D. (b) In United States politics, the extension of the rule of the American government over foreign countries acquired by conquest or purchase, without a

corresponding grant to them of the constitution or of a republican form of government; tion or of a republican form of government; the governing of other peoples on the monar-chical principle, as subjects rather than as citizens.—Liberal imperialism, in recent British politics, the views of the Liberal imperialists. imperialist, n. 3. Specifically, in recent and particularly in Britishand United States poli-tics, one who favors the principles and prac-

tices of imperialism.—Liberal imperialist, in recent British politics, a Liberal who is in sympathy with the imperialistic ideas usually associated with the Conservative party.

An abbreviation of impersonal. impers. An abbreviation of impersonal. imperscriptible, a. A mistaken form or mis-

print for imprescriptible, admitted into some dictionaries.

impersonalize (im-per'son-al-īz), v. t.; pret. and pp. impersonalized, ppr. impersonalizing.
[impersonal + -ize.] To make impersonal. [impersonal + -ize.] N. E. D.

impersonative (im-per'son-ā-tiv), a. [impersonate + -ive.] Relating to dramatic impersonation; capable of impersonating: as, impersonative talent.

impi (im'pi), n. [Zulu.] A band of African warriors; a native military expedition. implantation, n. 2. Union of the two ends of intestine, after exsection of a segment, by the insertion of one into the other and retention by sutures.

implementiferous (im'plē-men-tif'e-rus), a. [implement + L. ferre, bear, + ous.] Bearing implements or tools; containing stone implements made by early races of men, as certain geological deposits.

Collections from implementiferous gravels at Swans-combe, in Kent. Nature, Oct. 29, 1903, p. 636.

implexed (im'plekst), a. [L. implexus, entangled, +-ed²] In bot, entangled or interlaced; implex. F. V. Coville.

Implication texture. Same as graphic *texture. implode (im-plod'), v.; pret. and pp. imploded, ppr. imploding. [im-2+(ex)plode.] I. intrans. To burst inward: opposed to explode.

This ould implodes, then the pressure is applied to the interior of the protected bulb, which, in its turn, explodes.

Nature, Nov. 24, 1881, p. 92.

II. trans. To pronounce by implosion. N. E. D.

implosion, n. 2. In phonol., see the extract.

The implosion consists in closing the glottis simultaneously with the stop position, and then compressing the air between the glottis stoppage and the mouth one.

H. Sweet, Handbook of Phonetics, § 224.

implosive (im-plō'siv), a. and n. [implos(ion) + -ive.] I. a. In phonol., produced by implosion: as, implosive stops.

II. n. A sound formed by implosion.

Some sounds are produced without either out or in-breathing, but solely with the air in the throat or mouth. The 'implesives' . . . are formed in the former, the suction-stops or 'clicks' in the latter way.

H. Sweet, Primer of Phonetics, § 90.

impluvium, n. 2. Same as compluvium. An abbreviation of imperial meaimp. meas. An a sure. Dunglison.

impost-block (im'post-blok), n. An impost taking the form of a separate member with a definite character, as in Byzantine and early Italian architecture where it rises like a separate capital above the capital proper of a column. The term is also used for the two blocks from which an arch in a continuous wall seems to arise and upon which it bears. imposure (im-po'zūr), n. [impose+-ure.] The act of imposing or of laying on: as, the im-

predicted. [An erroneous use, doubtfully ascribed in the following case.]

There is, no doubt, one constant element in the reckoning, namely human nature, and perhaps another in human nature itself—the tendency to reaction from all extremes; but the way in which these shall operate, and the force they shall exert, are dependent on a multitude of new and impredicable circumstances.

Lowell, Prose Works, V. 126.

impregnation, n.—Constitutional impregnation, the impression upon the constitution of an organism as a whole which is supposed by Eimer to be made by a characteristic of long standing. See the extract.

If a form remain stationary at a low phyletic stage, then, from purely constitutional causes, the longer it remains at that stage the more does it become different, because its characters stamp themselves more and more deeply on the organism (constitutional impregnation).

Eimer (trans.), Organic Evolution, p. 51.

Hypodermic impregnation, in some leeches, as *Clepsins*, fecundation by the passage of spermatozoa which are deposited on the skin in spermatophores, through the skin into the colomic spaces and thence probably to the ovaries

imprescience (im-pre'shiens), n. [in-3 + pre-The condition of being without foreknowledge or prescience.

Improvidence, imprescience, and selfish ease. De Quincey, Posthumous Works, I. 235, note. N. E. D.

impress¹, v. t. 5. In elect., to apply electromotive force to (a circuit) from some outside source or to create difference of potential in

impressed, p. a. 2. In elect., supplied to a circuit by some outside source: for example,

generator.

impression, P.—Method of impression, in exper.
psychol. (a) Any method of psychological analysis which
involves the presentation of stimuli to the observer and
the recording of his introspective judgments. (b) More
particularly, a method for the study of the affective processes, consisting in the presentation to the observer of a
large number of stimuli, serially or in pairs, and in the
recording of the affective judgments, absolute or relative, passed upon these presented stimuli: opposed, in
this sense, to the method of *expression.—Sulphur impression, an impression or cast made on so-called plastic
sulphur, which is a ductile mass produced by pouring
melted sulphur into water.
impressionalistic (im-presh'on-al-is'tik), a.
Same as impressionistic.
impression-cylinder (im-presh'on-sil'in-dèr),

impression-cylinder (im-presh'on-sil'in-der), n. The cylindrical surface in a printing or other press which carries the type or the pat-

other press which carries the type or the pat-tern to be impressed upon the paper or cloth fed to it by the feeding-rolls. See cylinder, 2(c). impressionism, n. The name was first given to an advanced school of modern painting in France, based on the principle that effects of light in nature are momen-tary, and that the painter, if he wishes to be true to na-ture, should confine his attention and effort as closely as possible to the moment of their occurrence. In order to express the high key of natural light, a coterie of extreme impressionists, called pointilists, have used pure color laid on in points or dots. See the extract.

laid on in points or dots. See the extract.

The words Impressioniste, Impressionisme, are said to have arisen from a phrase in the preface to Manet's catalogue of his pictures exhibited in 1867 during the Exposition Universelle, from which he was excluded. "It is the effect," he wrote, "of sincerity to give to a painter's works a character that makes them resemble a protest, whereas the painter has only thought of rendering his impression." An alternative origin is a catalogue in which Claude Monet entitled a picture of sunrise at sea "Une Impression." The word was probably much used in the discussions of the group, and was caught up by the critics as characteristic.

Encyc. Brit., XXIX. 412.

impression-resist (im-presh'on-rē-zist"), n.
In printing, the material used as an elastic aid to give pressure to the paper which covers the inked type upon a printing-press. For strong elastic pressure that overlaps the face of the type, woolen blankets and india-rubber cloth are preferred; for a truly flat surface impression, as is needed in all engravings in relief, better results are obtained from the resist of hard cardboard.

impression-stitch (im-presh'on-stich), n. In shoe-manuf., an imitation or false stitch on the

shoe-manuf., an imitation or false stitch on the soles of shoes.—Impression-stitch machine, a machine for marking shoe-soles in any form of fair stitch or other fancy sewing.

impressive, a. S. In psychol., directed inward; producing an internal effect, or carrying a meaning for the subject of the experience: opposed to expressive. See method of *expressive. sion (a).

My fear or anger may chance to be expressive to another, but they must of necessity be impressive to me.

Encyc. Brit., XXXII. 65.

imprest², n.—Auditor of the imprest, an official of the department in charge of imprests. See imprest of-fice, under imprest.—Bill of imprest, an order for the drawing of money in advance. [Eng.]

Imprimitive (im-prim'i-tiv), a. [in-3 + primitive.] Not primitive: in math., in group theory, applied to a group such that its elements can be divided into sets of an equal number of elements, so that every substitution replaces the elements of each set only by all the elements of a set imprimitive (im-prim'i-tiv), a. the elements of a set.

Such that every operation of the group either interchanges the objects of a subset among themselves, or changes them all into the objects of some other subset. When this is the case the group is called imprimitive in respect of the set; otherwise the group is called primitive. A group which is doubly-transitive, in respect of a set of objects, obviously cannot be imprimitive.

Encyc. Brit., XXIX. 121.

imprimitivity (im-prim-i-tiv'i-ti), n. The state or character of being imprimitive, as a

improbative, a.— Articles improbative.

gentiferous lead by exposing the molten metal to the oxidizing influence of the air. The impurities, as they become oxidized, are removed from the surface of the bath by an iron rake, and the operation is continued until a nearly pure alloy of lead and silver is obtained. Also called softening.

Improvided improvided in the plane of polarization of a beam of light: opposed to optically active. See optically active substance, under active.

Inactive in phys. and chem, incapable of causing a rotation of the plane of polarization of a beam of light: opposed to optically active. See optically active substance, under active.

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Inactive incapable of causing a rotation of the plane of polarization of a beam of light: optically active substance, under active.

Inactive incapable of causing a rotation of the pla

fem. of improvvisatore: see improvisatore.] A woman who improvises.

We will not speak of the enthusiasm excited by actresses, improvisatrici, female singers.

Marg. Fuller, Woman in the Nineteenth Cent., p. 48.

(a conductor).

Impossed, p. a. 2. In elect., supplied to a circuit by some outside source: for example, the impressed electromotive force of a circuit is the electromotive force supplied to it by a generator.

Imposite (imposonit, n. [*Impson, a proper name (†), + -ite².] A kind of asphalt resembling albertite: it occurs in Indian Territory.

Impubescent (im-pū-bes'ent), a. [im-3 + pubescent.] Not possessing pubescence: said, for example, of the elytra of certain Coleoputation.

Elytra convex, not widened posteriorly, attaining their greatest convexity at the middle, very closely and rather strongly punctured, the apex of each rounded, their epipleurs concave, impubescent. [Coleoptera.]

Proc. Zool. Soc. London, 1902, L 186.

impulse, n.— Cardiac impulse, the heart-beat.

Impulsive action. See *action.

impulsivity (im-pul-siv'i-ti), n. [impulsiv(e) + -ity.] Impulsiveness; liability to hasty or violent action at the hest of a momentary impulse or transient emotion. C. Lombroso (trans.), Man of Genius, p. 348.

In the execution of many of those acts denominated crimes the offender exhibits the phenomenon of a brief period of violent activity, extreme impulsivity.

A. F. Chamberlain, in Pop. Sci. Mo., March, 1902, p. 419.

impunctate, a. 2. Having no puncte or perforations; imperforate: technically applied to the shells of Brachiopoda, which may be

either punctate or impunctate.

impuritanism (im-pū'ri-tan-izm), n. [in-3 + inaja (in-ā-jā'), n. [Tupi inajā.] See inajapuritanism.] Principles and practices opposed
to those of the Puritans; unscrupulousness in
inamovability (in-a-mö-va-bil'i-ti), n. The

Imputation, then, is the reference of a sense-impression, of which the mind is conscious as an effect, to a mistaken cause. Rep. Bur. Amer. Ethnol., 1898-99, p. clxxiii. Impx. A contraction of the Latin Imperatrix, press.

imsonic (im-son'ik), a. [im(itation) + L. sonus, sound, + -ic.] Characterized by words imitative of sounds: an artificial word, not in

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or gains. [Slang.]
II. adv.—Well in, profitably engaged (in speculation or business); hence, in general, well off. [Colloq., Australia.]
in4, n. and v. A simplified spelling of inn.

In², n. and v. A simplified spelling of inn.
inaccentuation (in-ak'sen-tū-ā'shon), n. [in-³ + accentuation.] Lack of accentuation or emphasis; equableness. C. J. Smith, Accent, Synonyms and Antonyms, p. 7.
inacceptable (in-ak-sep'ta-bl), a. [in-³ + acacceptable.] Unacceptable; not proper to be received.

received.

Propositions for peace . . . appeared utterly inaccepta-e. Lecky, England in the Eighteenth Cent., II. 445.

Inachidæ (ī-nak'i-dē), n. pl. [NL., < Inachus + -idæ.] A family of brachyurous podophthalmous crustaceans, having the eyes non-retractile or retractile against the sides of the cara-pace, the carapace varying from subtriangular to suborbicular, the rostrum simple or bifid, and the walking-legs often very long. It includes about 40 genera, among them Inachus, It in-Macropodia, Huenia, and Euprognatha.

Inachus (i'nā-kus), n. [NL. (Fabricius, 1798), (Gr. 'Ιναχος, a river-god, son of Oceanus.] The typical genus of the family Inachidæ.

inactivate (in-ak'ti-vāt), v. t.; pret. and pp. inactivated, ppr. inactivating. [inactive +-atc2.] To render inactive: applied to an immune serum the complement of which is being in-book (in'buk), n. Short for *in-clearing book. destroyed by heat or by age. Such a serum can be reactivated by the addition of fresh ing., as to a place or harbor: as, an inbound in bound. serum.

inadequative (in-ad'ē-kwā-tiv), a. [in-3 + adequate + -ive.] Not of the same equiva-lence; inadequate; insufficient.

inadequatively (in-ad'ē-kwā-tiv-li), adv. Insufficiently. F. Hall, Hindu Philos. System,

inadunata (in-ad-ū-nā'tā), n. pl. [NL., neut. pl. of inadunatus: see *inadunate.] In the current classification of the Crinoidea, an order characterized by having the arms free above the first radial plates and the topmost joint of the stem the youngest. The order contains only very primitive Paleozoic forms.

inadunate (in-ad'ū-nāt), a. [NL. inadunatus, (L. in-3 + adunatus, pp. of adunarc, unite: see adunation.] Not united; specifically, as applied to the calyxes of certain fossil crinoids, having the arms free above the first radial

ina. 2. A terminal combining-form in botanical classification, chiefly in Engler's system, denoting groups with the rank of subtribes. inæquipalp (in-ē'kwi-palp), n. One of the Inæquipalpia.

Equipalpia (in-ē-kwi-pal'pi-ä), n. pl. [NL., L. inæquis, unequal, + NL. palpus, pal-pus.] A group of trichopterous insects or caddis-flies in which the number of joints in the maxillary palpi differs in the two sexes. It includes the families Phryganeidæ, Limno-

inamovability (in-a-mö-va-bil'i-ti), n. The property or state of not being removable: as,

religious matters.

imputation, n. 3. The erroneous ascription of effect to cause: as, the imputation of a disease to witcheraft. [Rare.]

Imputation, then is the reference of a sense-impression.

property or state of not being removable. in amovability of judges.

inamovable (in-a-mö'va-bl), a. [in-3 + amovable.] Incapable of being removed; not subject to removal: applied to Roman Catholic rectors who are not removable at the will of the bishop, but only by due process of canon law, that is, by a formal and solemn canonical trial under grave charges.

I. M. S. An abbreviation of Indian Medical inanga (6"nang-2), n. A name in New Zealand Service.

Of two trout-like fishes, Galaxias attenuatus and Retropinna retropinna. They are also called whitebait and minnow, and in Tasmania the Galaxias is called jolly-tail. Also inaka.

actual use. Max Müller, Science of Language interest (in-angulate (in-angulate) (in-an

3. In gram., denoting inanimate things: applied to a phase of 'gender'

The distinction between animate and inanimate gender is still preserved in both Penobscot and Abenaki.

Amer. Anthropologist, Jan.-March, 1902, p. 27.

inao (ē-nā'ō), n. [Aino (Ainu).] A ceremonial object of the Ainos (Ainu), consisting of a wooden stick, often shaved, or with shavings attached, set up as an offering or considered as a messenger which conveys prayers to the deities. J. Batchelor, The Ainu and their Folk-Lore, p. 92.

inappertinent (in-a-per'ti-nent), a. [in-3 + appertinent.] Not appertinent. Coleridge.
inaugurative (in-â'gū-rā-tiv), a. [inaugurate + -ive.] Inaugural; inaugurating: as, an inaugurative ball; the inaugurative lecture of a

course.
inaxon (in-ak'son), n. [Gr. lς (iν-), nerve, +
άξων, axis.] In neurol., a nerve-cell with a
long axon, or axis-cylinder process.
inbark (in'bärk), n. In forestry, a condition of
wood in which portions of the external bark
are included within the wood. It often occurs
where branches separate from the trunk, and is caused by
their growing together in the hollow of the fork. Sci.
Amer. Sup., March 25, 1906, p. 24433.
inboard, a. 3. In mech., toward the inside; toward the main center or center-line: as, an
inboard stroke of the piston; an inboard bearing.—Inboard profile. See *profile.

fishing-fleet.

improving, n. 2. In metal., an operation for inactive, a. (e) In chem., causing no rotation in the inbreather (in-bre Ther), n. One who inremoving a portion of the impurities from arplane of polarized light.—Inactive molecules. See breathes.

Man was not so much made, as breathed into life, by the quickening Spirit of God. He was formed in the very image of the Maker, the *Inbreather*, having in measure the thoughts, faculties, emotions of God.

A. Raleigh, Way to the City, p. 280.

Abbreviations of incorporated. incorp. Incaic (ing-kā'ik), a. [Inca +-ic.] Same as In-

in-calver (in'kä'ver), n. A cow that is pregnant. [Rare.]

In no case should a cow be allowed to calve in a byre with other in-calvers.

Rep. Kan. State Board Agr., 1901-02, p. 347.

in-calving (in-kä'ving), a. Said of a cow when inch-ton (inch'tun), n. A compote bringing forth her calf.

Incandescent gas-lamp, lamp, mantle, oil-vapor burner. See *gas-lamp, incandescent light, under electric light, also *lamp1, *mantle, *burner.

incardinate2, v. t. 2. To institute formally as cardinal.

When he had accepted the office of Cardinal, but before he was incardinated Hook, Lives of Archbishops, IL 663, N. E. D.

incardination (in-kär-di-nā'shon), n. The formal act of institution or incorporation in a church or clan.

The form of tonsure affected by the un-Romanised clans [of Wales], about which we hear so much later, is shown to have been originally a tribal badge, symbol of incardination in the sept.

Dublin Rev., Oct., 1897, p. 488.

Incarian (ing-kā'ri-an), a. [Inca + -arian.]
Same as Incan. [Rare.]
incarnadine, a. II. n. A color ranging from
flesh-color to blood-red.

Incarnadine or flesh-colour.

Psacham, Compleat Gentleman, p. 155.

The field of Lützen, . . . not then for the last time to take the rich incarnadine of blood, was the spot which his death should make memorable for ever.

Trench, Gustavus Adolphus, i. 49.

incarnationist (in-kar-na'shon-ist), n. [incar-

nation + -ist.] One who holds the doctrine of incarnation, that is, that the Divine Being has assumed human nature.

incasement, n.—Theory of incasement. (b) Swammerdam's theory of the preexistence in an insects egg of the form of the larva, pupa, and imago, each stage being a distinct animal and one being contained inside the other

a distinct animal and one being contained inside the other like a nest of boxes.

incast, n. 2. A casting or throwing inward:
as, a fan-blower works by incast when it blows or forces the air into a space. Also used adjectively: as, an incast fan. Buck, Med. Handbook, I. 519.

Inca-stone (ing'kä-ston), n. A piece of iron pyrites polished for use as a mirror, as by the Incas. Such objects are frequently several

inches across.

inceal (in'sē-al), n. [F. incéal, referring to the incus, a bone of the internal ear, irreg. \(\) L. incinerant (in-sin'e-rant), a. [ML. incinerans, incus (incud-), anvil: see incus.] One of the bones forming the gill-cover in fishes; the suboperculum. Starks, Synonymy of the Fish suboperculum. Starks, Synonymy of the Fish incinerate, v. II. intrans. To be reduced to skeleton, p. 515. Skeleton, p. 515.

incense², n.—African incense, an eleoresin from Boswellia Frereana. Also known as Luban elemi or Oriental or African elemi.

incense-spoon (in'sens-spon), n. A spoon used for incense.

Specially dainty and richly worked spoons to serve spices and sweets were used in the fourteenth century. . . . An incense spoon with rock-crystal shaft, dating from about 1480, and several of agate are in the Ferdinand Rothschild bequest in the British Museum.

J. S. Gardner, Old Silver Work, p. 32.

incense-tree, n. 3. A tree of the genus Boswellia, especially B. Carterii and B. serrata. See olibanum.—4. In Australia, a name applied to some species of Pittosporum, on account of incense-tree. n. their fragrant flowers.

in-center (in sen'ter), n. $[in^2 + center^1]$ The center of an inscribed circle.

incept, v. t. 2. Specifically, in biol., to take in (nutriment): said of organisms or cells.
 incept. An abbreviation of inceptive.

incept. An abbreviation of inceptive.
inch¹, n.—Giroular inch, the area of a circle one inch in diameter, which equals 0.7854 square inch. One square inch equals 1.2782 circular inches. The circular inch is used in electrical calculations which involve the diameter and area of wires.—Inch of mercury, a unit of gaseous pressure; the pressure exerted by a vertical column of mercury one inch in height. It is .08342+ (or approximately ½) atmospheres.—Paris inch, a former measure of length, occasionally referred to in optics, the equivalent of 2.7 centimeters or 1.062 English inches.
inch. incho. Abbreviations of inchoative.
inch-bones (inch'bōnz), n. pl. [inch¹ + bones.]
Bone-fragments (as distinguished from bonedust) used as manure. J. B. Baxter, Lib. Pract. Agr., II. 353. N. E. D.
inch-gauss (inch'gous), n. A practical unit of incisura (in-si-sū'rā), n. [L.: see incisure.]

one line of force (or maxwell) per square inch of cross-section.

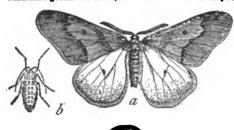
inchman (inch man), n. so called from its length. The bulldog ant: [Tasmania.] [inchoa(te) + inchoacy (in-kō'a-si), n. [inchoa(te) +
The state of being incipient or inchoate.

So ill satisfied was he [Clough] with his striking poem
["Amours de Voyage"], that he kept it nine years in MS.
... What he doubted about in it was ... its vigor and
execution. Yet no execution could have been more perfect of the picture—a picture of inchoacy, I admit—
which he intended to draw.

R. H. Hutton, Clough, in Literary Essays, p. 297.

A compound unit

inchworm, n.— Linden inchworm, the larva of an American geometrid moth, Erannis tiliaria. It is yel.



Linden Inchworm (Erannis tiliaria).

a, male moth; b, wingless female; c, larva: slightly enlarged.

low, striped with black, and feeds on the leaves of the linden.—Red-head inchworm. See pine *span-worm. incide2 (in-sid'), v. i. [L. incidere, fall upon: see incident.] 1. To fall upon, as a ray of light upon a surface; impinge; have incidence.—2. To have effect upon.

the books in which is clear.

inclerk (in'klerk), n. [in1 + clerk.] An inclearer or settling-clerk in a clearing-house. [Eng.] inclination of a straight to a plane, the angle between the straight and its projection on the plane.

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Inclination of a straight to a plane, the angle between the straight and its projection on the plane.

Inclination of a straight to a plane, the angle between the straight and its projection on the plane.

The cruel inequality with which the gabelle incided pon certain rural districts.

M. Bridges, Pop. Mod. History, p. 423. N. E. D.

incidence, n. 6. The actual fall of taxation upon a particular individual or piece of property, in distinction from its nominal or superty, in distinction from its nominal or supposed distribution.— Graxing incidence, in optics, incidence of a ray of light upon a reflecting surface in a direction such that the angle of incidence is nearly 90°.— Principal incidence, in optics, incidence at such an angle that the difference of phase of the two components of the reflected ray is $\frac{\pi}{2}$: said of the metallic reflection of light.

incident, a. 5. Same as afferent (c): noting the nerves which convey impressions from the

ashes by the burning off of organic matter. [Rare.]

incipial (in-sip'i-al), a. [Irreg. < L. incipere, begin, + -ial.] Of the beginning; initial. [Rare.]

The incipial words of the Preambulum

Way, Promptorium Parvulorum, 1843–65, Pref., p. xvi. incipient, a. 2. In Heb. gram., noting the verbal tense or form with prefixed servile letters, otherwise called future, present, and imperfect.
incipit (in si-pit), v. [L. incipit, 3d pers. sing.
pres.ind. act. of incipere, begin: see incipient.]
'(Here) beginneth': the first word in a preliminary formula common in medieval manuliminary formula common in medieval manuscripts and early printed books, introducing the title or name of the work or of the preface or other part of it: as, "Incipit preambulum"; "Incipit prologus in libellum qui dicitur Promptorius Parvulorum," etc. Compare explicit, v.
incipit (in'si-pit), n. [incipit, v.] The introductory words of a book or section of a book. Compare *explicit n.

ischiadica, the notch or emargination in the pelvis which marks the point of union of the ilium and ischium; or, as in the pelvis of an ostrich, the elongate space between these bones.—Incisura pallii transversa, the space between the cerebrum and cerebellum into which the tentorium dips.

incisural (in-sizh'ū-ral), a. [incisure + -all.]

Pertaining to an incisure.

incitability (in-si-ta-bil'i-ti), n. Capability of being stimulated or incited. Syd. Soc. Lex.

incitable (in-si'ta-bl), a. [incite + -able.] Capable of being stimulated to action. incivic (in-siv'ik), a. [in-3 + civic.] Lacking the qualities of good citizenship: the opposite of civic.

Ye rise above the base Incivic herd, like Cato and Brutus, superior to a senate of cowards and hirelings.

W. Taylor, in Monthly Rev., XVII. 505. N. E. D.

An abbreviation (a) of including; (b) of inclusive.

inclavation (in-klā-vā'shon), n. [inclav(ate) + -ation.] The condition of being held in a socket by curved roots, as a tooth. [Rare.]

in-clearer (in'kler'er), n. [in1 + clearer.] In London, the bank-clerk whose duty it is to represent his bank in the clearing-house and receive through it all the bills of exchange, checks, etc., payable by his bank; the inclerk. Called in New York settling-clerk. See olerk.

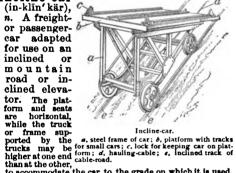
*in-clearing (in'klēr'ing), n. [in¹ + clearing.]
The bills of exchange, checks, etc., payable by a bank in any one day's clearing house transactions, and received by that bank's inclearer or settling-clerk for settlement. Compare *out-clearing. [Eng.]—In-clearing books, the books in which a bank's in-clearings are entered.

in-clear (in'klerk), n. [in¹ + clerk.] An inclearer or settling-clerk in a clearing-house.

mental or physical.

inclinatory (in-kli'nā-tō-ri), a. [inclinat(ion) + -ory.] Relating to the inclination or dip of the magnetic needle.—Inclinatory needle! (naut.),

the dipping needle.
ncline-car
(in-klīn' kār), or passengerfor use on an inclined mountain road or in-clined eleva-



higher at one end colle-road.
than at the other, to accommodate the car to the grade on which it is used.
The illustration represents an incline-car on a narrow-gage industrial cable-railroad.
incluse, a. II. n. A monk or nun who, with the permission of the superior, was (in the middle ages) voluntarily immured for life within the monastery.
inclusion, n. 3. The contents of vesicles, of

all sizes, in protoplasm as an emulsion, enveloped by pellicles of the continuous substance or plasma; the discontinuous portions of protoplasm.

Discontinuous elements or inclusions. these are most heterogeneous. They are fluids of various degrees of viscidity. Even very small areas are found to contain many chemically different inclusions.

G. F. Andrews, in Sup. Jour. of Morphol., XII. 14.

Inclusion cyst. See *cyst.
inclusory (in-klö'sō-ri), a. 1. Inclusive: as,
between the two inclusory extremes.—2. Including several elements: as, one inclusory statement.

incoercible, a. 2. In phys.: (b) Incapable of reduction to tangible condition by pressure: applied to forms of energy, such as heat and electricity, when they were thought of as extremely subtile fluids.

incognite (in-kog'nit), a. [L. incognitus, un-known.] Unknown.

known.] Unknown.
incognitive (in-kog'ni-tiv), a. [in-3 + cognitive.] Without the faculty of cognition.

God made the soul cognitive; and who shall make it incognitive!
Fitzedward Hall, Hindu Philos. System, p. 154. N. B. D. Agr., II. 353. N. E. D. sharply cut teeth.

inch-gauss (inch'gous), n. A practical unit of incisura (in-si-sū'rā), n. [L.: see incisure.]

magnetic induction; a magnetic flux-density of An incisure; a fissure; a notch.—Incisura incognoscent (in-kog'nō-sent). a. [L. in-priv.]

+ cognoscens(-ent-), ppr. of cognoscere, know.] incorporator, n. 2. Specifically, a member of incuneation (in-kū-nē-ā'shon), n. [L. in, in, Ignorant; unaware; without knowledge (of). one university who is incorporated in, that is, + cuneus, a wedge, + -ation.] The wedging ncoherent, a. 3. In geol., noting textures has received an incorporating degree from, together of the fragments in a certain form of Ignorant; unaware; without knowledge (of).
incoherent, a. 3. In geol., noting textures
consisting of loose sediments which have never been cemented. Geikie, Text-book of Geol.

(4th ed.), p. 138. incohesive (in-kō-hē'siv), a. [in3- + cohesive.] Not cohesive; not cohering.

Incommensurable number. Same as irrational *number.

"incommobility (in'kom-ō-bil'i-ti), n. [in-3 +
"commobile (see commove) + -ity.] The quality
of not being moved to anger or other emotions.

Incommobility, which is called in Greek ἀοργησία, or a disposition incapable of being excited to anger.

T. Taylor, tr. of Apuleius, Philos. Plato, II. 346. N. Ε. D.

incommunication (in-ko-mū-ni-kā'shon), n. incommunication (in-ko-mū-ni-kā'shon), n. [Sp. incomunicacion; as in-3+ communication.] In Sp. law, the state of a prisoner who, by order of a judge, is not permitted to see or hold communication with any one during his confinement or until further order.

incommutative (in-ko-mū'ta-tiv), a. [in-3+ commutative.] Non-commutative.

Incompatible equation. See *equation.
incompensated (in-kom'pen-sā-ted), a.
Marked by lack of compensation: said of heart lesions. See *compensation, 6.

Any of the organic heart lesions when incompensated may be followed by ascites.

Buck, Med. Handbook, I. 564.

incompetent, a. II. n. An incompetent person; one who is mentally or physically defi-

This wretched person—a dauber, an incompetent, not fit to be a sign-painter—receives this morning an . . . offer . . . of a clerkship with nearly one hundred and fifty pounds a year, and . . . he refuses it! . . For the sake of Art, he says.

R. L. Stevenson, New Arabian Nights, p. 826.

As also there are not three uncreated: nor three in-imprehensibles (infinites), but one uncreated: and one acomprehensible [infinite].

The Athanasian Creed, in The Creeds of Christendom,

incongruous, a. 3. In the theory of numbers, not the modulus 3, giving different remainders when divided by the modulus.

inconscience (in-kon'shens), n. [in-3 + conscience.] Unconsciousness; lack of self-conscience.

The genuineness and inconscience of these elemental motifs.

A. Lynch, Modern Authors, p. 96. N. E. D.

Inconsistent equations. See *equation.
inconsolate (in-kon'sō-lāt), a. [L. in-priv. +
consolatus, pp. of consolare, console.] Unconsoled; disconsolate.

inconstructible (in-kon-struk'ti-bl), a. [in-3 + constructible.] That cannot be constructed. incontinuity (in-kon-ti-nū'i-ti), n. [in-3 + continuity.] The quality of being incontinu-

incontinuous (in-kon-tin'ū-us), a. [in-3 + continuous.] Not continuous; discontinuous. R. L. Stevenson, Across the Plains, 230. N. E. D.

incor. An abbreviation of incorporated. incoronation (in-kor-ō-nā'shon), n. [in-2 + coronation.] Coronation.

The carvings around the choir wall are a series of presentations of the Divine Story, from the Nativity of the Virgin to her Assumption and Incoronation.

Mrs. Whitney, Sights and Insights, II. 426.

incorporable (in-kôr'pō-ra-bl), a. That may be incorporated.

Chelsea, Knightsbridge . . . and Mile-end were not really incorporable. Daily News, Sept. 19, 1899. N. E. D.

really incorporable. Daily News, Sept. 19, 1899. N. E. D.
incorporation, n. (f) In philot., the inclusion into one apparent whole of the verb or noun root with generic particles and affixes, or fragments thereof, forming what is, in effect, compared to Indo-European types of speech, a reduced sentence, but having the appearance of a long word: polysynthesis.

This bond is to be looked for in the inner structure of the dialects, a structure characterised especially by the development of pronominal forms, the abundance of generic particles, the more frequent use of ideas based on actions (verbs) than of ideas of existence (nouns), and as a consequence the subordination of the latter to the former in the proposition. The latter feature characterises the process called incorporation, all American Languages being polysynthetic.

Deniker, Races of Man, p. 518.

another university.

Having further been allowed by the Keeper of the Archives to extract all the names and particulars relative to Incorporators, as well as honorary and nominal members [of the University], I... proceeded to transcribe... list of degrees conferred.

J. Foster, Alumni Oxoniensis, Pref., p. vi.

incorporealizet (in-kôr-pô'rē-al-īz), v. i. [in-corporeal + -ize.] To hold the theory that souls are an incorporeal substance distinct indamine (in'da-min), n. [ind(igo) + amine.] from matter. Cudworth, Intell. System, I. 22. incorposible (in-ko-rō'si-bl), a. Same as in-body produced when nitroso-dimethyl-aniline hydrophlorid reacts with tolyiding the system. corrodible.

incorrosive (in-ko-rō'siv), a. [in-3 + corrosive.] Not susceptible of corrosion: rarely, and incorrectly, used instead of incorrodible or *incorrosible.

incr. An abbreviation (a) of increased; (b) of

incr. An abbreviation (a) of increased; (b) of increasing.
increment, n. 6. In forestry, the volume or value of wood produced during a given period by the growth of a tree or of a stand. See *accretion, 5.—7. A uniform variation; a regular increase. Elect. World and Engin., Feb. 21, 1903, p. 333.—Increment borer. See *borer.—Marginal increment, in polit. com, the least important increment or unit of a commodity in the possession of an individual, or the last unit he is induced to produce or acquire. See the extract.

The increment of the commodity which he is only just

incomplexity (in-kom-plek'si-ti), n. [in-3 + complex-ity.] Simplicity; lack of complexity.

Artlessness, and incomplexity of table.

V. Knoz, Essays, III. clxxvl. 278. N. E. D. incremental lines of Salter, concentric lines in the dentin in the region of the crown of the tooth, analogous to the rings in the trunk of a tree, marking the successive growths of this substance.

or that cannot be grasped by the intellect.

or that cannot be grasped by the intellect.

three uncreated: nor three interior of charging with a crime; the fact of being involved in a crime. The increment of the commodity which he is only just induced to acquire (whether by his direct labour or by purchase) may be called its Marginal Increment; because he is on the margin of doubt whether it is worth his while to incur the outlay required to obtain it.

Alfred Marshall, Prin. of Economics, iii. 3.

One other fact he noticed, which eventually became more important than many stronger circumstances of incrimination; this was that the shoes of the murderer, apparently new, creaked as he walked.

De Quincey, Three Memorable Murders.

incross (in'krôs), n. The process of breeding from parents which are close blood-relations; also, the offspring of such parents.

Recent results from increases and outcrosses lead to the belief that hybridizing is of paramount importance to supply the best stocks for the more laborious work of selection. U. S. Dept. Agr., Div. Veg. Physiol. and Pathol., Bulletin 29, 1901, p. 55.
incruciation (in-krö-shi-ā'shon), n. [NL. *incruciatio(n-), < *incruciation, place on a cross, < L. in, on, + crux (cruc-), cross.] Same as de-

cussation.

The despot of Cremona dying inconsolate because, having had the Pope and the Emperor on the tower of his cathedral, he had forgotten to hurl them down.

The Academy, Dec. 9, 1882, p. 407.

The despot of Cremona dying inconsolate because, having had the Pope and the Emperor on the tower of his cathedral, he had forgotten to hurl them down.

The Academy, Dec. 9, 1882, p. 407. ture) in a thermostat or a similar apparatus for the purpose of obtaining the maximum growth of bacteria by keeping them at a con-

stant optimum temperature.

incubational (in-kū-bā'shon-al), a.

tion + -al¹.] Relating to incubation.

tion + -all.] Keisting to incubation.

incubator, n. 2. Same as couveuse, 2.—Bacteriological incubator, an apparatus constructed to maintain a uniform temperature at which bacteria may develop. The triple-walled copper oven is provided with a space for water, which is heated to the proper degree, and fluctuations of temperature are prevented by an insulating air-space and by a cover of insulating material, such as asbestos-board.

inculpative (in-kul'pā-tiv), a. [inculpate +

-ive.] Incriminative; inculpatory. Sydney Smith, Letters, iii. N. E. D. incumbent, a. 4. In geol., resting upon: said of one series of strata which is supported by a subjacent one.

incunable (in kū'na-bl), n. [F. incunable: see incunabula.] A book printed in the infancy of the art, before the year 1500. See incunabula, 3.

One of the early incunables or "fifteeners."

The Month, May, 1894. N. E. D.

incunabulum (in-kū-nab'ū-lum), n.; pl. ingoods by indent.—2. One who orders
goods by indent.
goods by indent.
singular) from incunabula: see incunabula.] indentwise (in-den'tor), n. See *indenter, 2.

1. A book printed in the infancy of the art of
printing. See incunabula, 3.—2. In entom., a
cocoon.

or engages by indenture.—2. One who orders
goods by indent.
goods by indent.—2. One who orders
indenture: with entoring indenter, 2.

denture; with two interlocking edges, or
edges fitting into each other's indents: as,
tickets cut off indentwise. N. E. D.

in-curve (in kerv), n. In base-ball, lawn-bowls, bowling, etc., a ball so pitched or rolled by a right-handed man as to curve to the right.

bers [of the University], I... proceeded to transcribe
... list of degrees conferred.

incorporeal, a. II. n. An incorporeal thing;
an immaterial being.

The divine nature of the celestial bodies cannot be seen through the telescope, and incorporeals are not to be viewed with a microscopic eye.

T. Taylor, tr. of Plato, Introd., Timeus, p. 395.

incorporeal ic. [a.]. The hold in

hydrochlorid reacts with toluidine.— Indamine hydrochlorid reacts with totalume.— Innamed blue. See *blue. indanthrene (in-dan'thren), n. [ind(igo) + anthr(ac)ene.] A coal-tar color related to anthracene made by fusing beta amino-anthraquinone with caustic potash. It dyes cotton and other vegetable fibers in a hyposulphite reduction-vat and gives very fast blues. When combined with flavanthrene it gives one of the fastest greens known.

fastest greens known. indazin (in-daz'in), n. [ind(igo) + az(ote) + CH

 $-in^2$.] A colorless compound, $C_6H_4 < \bigcap_N > NH$,

prepared by heating orthohydrazin-cinnamic acid. It crystallizes in slender needles, melts at 146.5° C., and boils at 269-270° C. Also called, incorrectly, indazole.—Indazin blue. See

*title.
indazole (in-daz'ol), n. [ind(igo) + az(ote) +
-ole.] Incorrect for *indazin.
indazurine (in-dazh'ū-rin), n. [ind(igo) + azurine.] 1. The name given to several direct
coal-tar colors which dye unmordanted cotton
varying shades of blue. They are all of the
digra-sulphonic soid type of colors — 2. A diazo-sulphonic-acid type of colors.—2. A blue basic dyestuff of unknown constitution which dyes tannin-mordanted cotton navyblue shades.

indazylic (in-da-zil'ik), a. [indaz(in) + -yl + -ic.] Pertaining to indazin or indazole compounds. Nature, Dec. 17, 1903, p. 167. indecomponible (in'dē-kom-pō'ni-bl), a. [in-3 + de- + L. componere, compose, + -ible.] Indecompose hle

decomposable.

The assumed indecomposible substances of the Laboratory.

**Coloridge*, in The Friend, III. 173. N. E. D. indefinite, a. 5. In gram., not such as to make definite or determinate the person, thing, place, time, or manner in question: applied to certain adjectives, pronouns, and adverbs, as the indefinite article (see article, 11), any, some, such, anywhere, anyhow, otherwise, and to certain tenses of verbs, as the Greek aorist (which means 'indefinite') and the simple past in English.

indefinitive (in-dē-fin'i-tiv), a. [in-3 + definitive.] Not definitive; indefinite.

In a very few years a school of opinion [founded by the Anglo-Catholic party] was formed, fixed in its principles, indefinitive and progressive in their range; and it extended into every part of the country.

J. H. Neuman, Difficulties of the Anglicans, Lecture iv.

indeflectible (in-dē-flek'ti-bl), a. [in-3 + de-flectible.] Not to be deflected from the straight or right way: as, indeflectible justice; indeflectible loyalty.

indemnificator (in-dem'ni-fl-kā'tor), n. One

who indemnifies. Bentham. indemnificatory (in-dem'ni-fi-kā-tō-ri), a. Re-

indemnificatory (1n-dem n1-n-ra-10-r1), a. nelating to indemnification; tending toward indemnifying: as, indemnificatory actions.

Indemnity lands. See *land1.
indene (in'dén), n. [ind(igo) + -ene.] A color-CH]
less viscid liquid, C₆H₄ < CH > CH, found in

less viscid liquid, $C_6H_4 \leftarrow CH_2$ CH, found in CH₂ coal-tar oil. It boils at 179.5–180.5° C. indent², n. 4. A requisition for military stores. [Anglo-Indian.]

incunabular (in-kū-nab'ū-lär), a. Of or per-indenter (in-den'ter), n. 1. One who binds taining to incunabula.

One who orders or engages by indenture.—2. One who orders

independable (in-dē-pen'dā-bl), a. [in-3 + dependable.] Not to be depended upon; not trust worthy.

Capricious, independable, and exacting.

Geog. Jour. (R.G.S.), IX. 122.

independence, n. 3. In bot., the abnormal separation of organs or parts which are usually united.

ally united.

indesignate (in-des'ig-nāt), a. [in-3 + designate.] Not designate; indefinite.

indeterminacy (in-dē-ter'mi-nā-si), n. [in-determina(te) + -cy.] The quality of indeterminateness; vagueness; indefiniteness.

Ambiguity is a confusion between ideas quite distinct. . . Vagueness is an indeterminacy in the limits of the application of an idea.

The Nation, Oct. 27, 1892, p. 324.

index, n. 3. (b) In instruments having graduated circles for angular measurement, the pointer or mark on the movable arm which is so placed as to move in close proximity to the graduated circle and thus to indicate the angle passed over between any two given positions of the arm; also, the arm or revolving member pivoted at the center of the graduated circle, which carries the index-mark or pointer.—11. The numerical value of a measured object or process, or of a counted phenomenon, expressed in percentage of another measured object, or process, or counted phenomenon: applied particularly in measurements of organisms for expressing the ratio between the sizes of two organs. See craniometry.—12. In forestry, the highest average actually found upon a given locality.—Attitudinal index, the height of the skull expressed in percentage of its length: same as vertical index and so enhanced index which see, under vertical.—Antebrachial index. Same as rotation.—Antebrachial index. Same as rotation.—Bureau of Indexes and Archives. See *bureau.—Gephalic index. (a) See cephalic.—Bureau of Indexes and Archives. See *bureau.—Gephalic index. See see *contail *index.—Ocephalofacial index. See *contail *index.—Ocephalofacial index. See *contail *index.—Ocephalofacial index. See *contail *index.—Ocephalofacial index. See *color.—Ocronoid index.—Vicular index. Same as *caviculohumeral *index.—In anthrop., the length of the clustele expressed in percentage of the length of the chumerus Turner.—Color index. See *color.—Ocronoid index, the condylocymphysial length. A. Thompson, in Jour. Anthrop. Inst., XXXIII. 144.—Cranial index, in craniom., the breadth of the skull expressed in percentage of its length. This index is often called *cshalic index, although, strictly speaking, the cephalic index gives the corresponding proportion on the head including the soft tissues.—Cubic index, in *craniom., the proportion between one half of the product of the length, breadth, and height of the skull, and its capacity. Broca.—Dental index in *craniom., the distance between the anterior surface of the first moiar and the posterior surface of the third moiar expressed in percentage of the length of the humerus expressed in percentage of the length of the skull, and its capacity. Broca.—Dental index in *craniom.*, the length of the first moiar and the posterior surface —Femorohumeral index, in *anthrop., the length of the first moiar index. T particularly in measurements of organisms for expressing the ratio between the sizes of two organs. See craniometry.—12. In forestry, the highest average actually found upon a given

accordance with the value of the index, Turner distinguishes kurtorachic, orthorachic, and kollorachic spinal columns, the dividing points between these three groups being 98 per cent. and 102 per cent. —Mandibular index, the condylosymphysial length of the lower jaw expressed in percentage of the intercondylic width. A. Thompson. —Maxillary index, in craniom.: (a) The width of the palate, measured at the outer border of the alveolar arch immediately above the width of the second molar expressed in percentage of the length of the palate, measured from the alveolar point to the posterior border of the maxillary bones. Flower. (b) Same as palatomaxillary or palatoalveolar *index.* Turner.—Nasomalar index, in anthrop., the length of the jugonasal arc expressed in percentage of the jugonasal chord.—Obturator index, in anthrop, the length of the transverse diameter of the obturator foramen expressed in percentage of its vertical diameter. Sir W. Turner, in Challenger Rep., XVI. xivii. 7.—Occipital index, in anthrop, the length of the brain from the parieto-occipital fissure to the most prominent point of the occipital pole expressed in percentage of the mesial arc. Cunningham.—Palatomaxillary index, the palatomaxillary width expressed in percentage of the mesial arc. Cunningham.—Phagocytic of the palatomaxillary length.—Parietal index, in anthrop, the length of the arc between the central and parieto-occipital fissures of the brain expressed in percentage of the mesial arc. Cunningham.—Phagocytic index. Blood-serum is mixed with a bacterial culture and with blood-cells washed in a 0.5 per cent. Solution of sodium citrate in physiological saline solution, in definite quantities, and after ingestion in an incubator for twenty minutes a drop of the mixture is examined under the microscope. The average number of bacilli ingested by each leucocyte is estimated, and the result is called the microscope. The average number of bacilli ingested by each leucocyte is estimated, and the result is called the phagocytic index. It

the mirror on one end and the vernier on the other.

index-eyepiece (in'deks-ī'pēs), n. See *eye-

index-hand (in'deks-hand), n. A movable pointer or hand of a clock, watch, or other indicating- or measuring-machine; particularly,

How prologues into prefaces decay,
And these to notes are fritter'd quite away:
How index-learning turns no student pale,
Yet holds the eel of science by the tail.

Pope, Dunciad, i. 277.

index-machine, n. 2. A machine provided with an indexing mechanism by which the teeth of gear-or ratchet-wheels can be spaced. index-plate (in'deks-plāt), n. A disk in a gear-cutter, milling-machine, or dividing-engine, having holes in its face to aid in dividing a gear-wheel or other piece into aliquot part of a circumference and securing the desired number of teeth on the periphery; a division-

index-wheel (in'deks-hwel), n. 1. An indexplate.—2. A wheel having graduations and notches on its periphery, used to regulate the advance or feed of a machine.—3. A wheel with 80 teeth, divided into 20 sections of four teeth each, attached to the combing-cylinder of a cotton-combing machine to facilitate the adjustment of the time for the action of the various parts that act on the cotton. Thornley, Cotton Combing Machines, p. 37.

India china, India cotton (b). See *china,

*cotton1.

Indian. I. a.—Indian beard-grass. Same as *brook-grass.—Indian bread. (a) See Indian, 3. (b) See tuckahoe, 2. (c) Large, flat cakes made of cassava meal and then roasted. See cassava, 2.—Indian butterfly-plant. Same as moth-plant.—Indian butter-tree, Cetonia, cherry, cholera, cut, gift. See *butter-tree, ctc.—Indian chear, the hop-hornbeam or ironwood, Ostrya Virginiana.—Indian cigar. Same as Indian bean (which see, under bean).—Indian doob. Same as doob.—Indian dye. Same as Indian paint (b) (which see, under paint).—Indian fig. See *fg2.—Indian filbert. See soap-

berry. — Indian fog, the dwarf houseleek, Sedum referum. — Indian head, loaf. See tuckahoe, 2. — Indian mallow, meal-moth, melon, money, mozemize, oats, orchard, paint-brush. See mallow, *mothleto.— Indian paper-birch, pine, pink, potato, puccoon, purge. See *birch, *pine1, *pine2, potato, *puccoon, *purge. Indian redroot. Same as redroot, 2.— Indian sage, sanicle, shamrock. See *age2, etc.— Indian strawberry, tobacco, wheat, whort. See *strawberry, etc.— Indian turmeric. Same as turmeric-root, 2.— Indian turnip. (b) Same as pratric-lurnip. TI. n. 4†. A native of Australia or New

Zealand, or of Polynesis.—5. Any native language of America. See *Amerindian.—6. A constellation (Indus) lying between Sagittarius and the south pole.—Copper Indian, a member of the native race of America; a red Indian.—Speckled Indian, an Indian affected with partial ablnism.

ablniam.

Indian-chief (in'di-an-chēf), n. The shooting-star, Dodecatheon Meadia.

Indian-cup, n. 2. Same as cup-plant.

Indian-leaf (in'di-an-lēf), n. Same as *malabathrum.1.

Indian-moccasin (in'di-an-mok"a-sin), n.

Same as Indian-shoe.

Indian-pitcher (in'di-an-pich'er), n. The pitcher-plant or sidesaddle-flower, Sarracenia urpurea.

Indian-posy (in'di-an-pō'zi), n. 1. The common life-everlasting, Gnaphalium obtusifolium.

— 2. The large-flowered everlasting, Anaphalis margaritacea.—3. The butterfly-weed or pleurisy-root, Asclepias tuberosa.

Indian-slipper (in'di-an-slip'er), n. Same as

Indian-shoe

Indian-soap (in'di-an-sōp), n. The American soapberry, Sapindus marginatus.

Indian-warrior (in'di-an-wor'i-èr), n. A Californian species of lousewort, Pedicularis densifora, with fern-like leaves and a thick spike of red flowers.

Indian-weed (in'di-an-wed), n. Tobacco: a

Indian-weed (in'di-an-wed), n. Tobacco: a name common in colonial times.

indic² (in'dik), a. [ind(igo) + -ic.] Noting a hypothetical acid which, in the form of its potassium salt, C₁₆H₁₁N₂O₃K, is obtained by boiling indin, an isomer of indigo, with alcoholic potassium hydroxid. The salt is deposited in small black crystals.

pointer or hand of a clock, watch, or other indicating- or measuring-machine; particularly, a two-armed pointer on an indexing-device for spacing or dividing.

index-head (in'deks-hed), n. An attachment for a milling-machine, gear-cutter, or similar machine for rotating at regular intervals, through definite angles or aliquot parts of a circumference, the piece of material worked. index-learning (in'deks-ler'ning), n. Learning which depends upon the use of indexes (and goes no further); that is, knowledge acquired for the occasion, from books of reference. Compare the quotation from Fuller, under indical.

How prologues into prefaces decay, And cheese to notes are fritter'd quite away:

ited in small black crystals.

indica. An abbreviation of indicative.

indical, a. 2. Relating to the index finger or the second digit of the forefoot.

indican, n. 2. The alkali salt of indoxyl-sulphuric acid, CgHgNSO₂H. It occurs in urine. See the following phrase.—Urinary indican, nutrefaction is in part oxidized to indoxyl and absorbed. In the body which is formed during the process of intestinal putrefaction is in part oxidized to indoxyl and absorbed in the following phrase.—Urinary indican, nutrefaction is in part oxidized to indoxyl and absorbed in the following phrase.—Urinary indican, nutrefaction is in part oxidized to indoxyl and absorbed in the following phrase.—Urinary indican, nutrefaction is in part oxidized to indoxyl and absorbed in the following phrase.—Urinary indican, nutrefaction is in part oxidized to indoxyl and absorbed in the following phrase.—Urinary indican, nutrefaction is in part oxidized to indoxyl and absorbed in the following phrase.—Urinary indican, nutrefaction is in part oxidized to indoxyl and absorbed in the following phrase.—Urinary indican, nutrefaction is in part oxidized to indoxyl and absorbed in the following phrase.—Urinary indican, nutrefaction is in part oxidized to indoxyl and absorbed in the following phrase.—Urinary indican, nutrefaction is in part oxidized to indoxyl and absor

indicanine (in'di-ka-nin), n. [indican + -ine².] A syrupy compound, C₂₀H₂₃O₁₂N, prepared by the action of barium-hydroxid solution on indican.

indicanuria (in'di-ka-nū'ri-a), n. [indican + in the urine. Normally only of slight degree, larger quantities are excreted especially in conditions associated with an excessive degree of intestinal putrefaction.

indication, n.—Letter of indication, a letter of advice given by a banker to the holder of a letter of credit or circular note when issued. It contains the signature of the holder for identification, a list of the bank's correspondents where the holder may draw money, and other information.

indicator, n. 1. (g) In chem., a substance used in volumetric chemical analysis, or some other chemical process, to indicate the condition of a solution, or to indicate exactly the point at which a certain reaction ends and another begins. The point at which this change takes place is called the end-point. Indicators are most frequently used to detect the presence of acids or alkalis. The most important indicators are litmus, lacmoid, phenol-phthalein, methyl orange, and cochineal.

An indicator, to be of service in acidimetric processes, must be a substance of basic or acid character, which, like litmus, will show by a change of color, the presence of the slightest excess of free acid or alkali.

H. P. Taibot, Quantitative Chem. Analysis, p. 65.

(h) In railroad signaling, a device for informing the lever-

H. P. Talbot, Quantitative Chem. Analysis, p. 66.

(h) In railroad signaling, a device for informing the leverman in a signal-cabin that a train is about to start from the station and indicating which track it will take; in its broadest sense, any appliance for displaying, in the signal-cabin, the condition of a track or of all the tracks in a yard, the position of the signals, semaphores, switches, and signal-lamps, the trains at rest, or moving, or about to enter or leave any block, etc. The indicator may be a number on a drop-plate, a disk or banneret, or a miniature signal-arm, and it may give information by its ap-

pearance or disappearance or by its position. It may also give a signal by means of a bell. An indicator may be operated from a distant station or cabin by a push-button, or it may be soutrolled by a train through a track-circuit. (i) In mining, an appearance of the surface of the ground which shows the presence of a mineral underneath.

The 'indicators' of the Ballarat Goldfield, Victoria, are nin beds of dark-coloured shales and states.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 652.

The 'indicators' of the Ballarat Goldfield, Victoria, are thin beds of dark-coloured shales and slates.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 652.

(j) Naval: (1) An apparatus used in conjunction with a transmitter, operated by mechanical or electrical means for signaling orders from a central position to the various places on a war-ship at which the orders are to be executed. The transmitter is manipulated by the operator in the central station or in the conning-tower to show any desired order, and the same order is shown on one or more indicators connected to the transmitter by wires or shafting. A range-indicator shows the range of the object at which the guns are to be fired; a battle-order indicator shows various orders such as 'commence firing,' 'load with shell,' etc. (2) An apparatus to show at a convenient point the position of any mechanism: as, a revolution-indicator to show the direction of revolution of the main engines; a rudder-indicator, to show the position of the helm or rudder; a turret-indicator, to show the position of the turret guns with reference to the fore-and-at line of the ship; etc.—Battle-order indicator, an apparatus placed near the guns of a war-ship to indicate mechanically the orders of the captain, such as 'commence firing,' load with common shell,' etc. It is worked by electrical or mechanical means from a battle-order transmitter in the conning-tower or station of the captain on the bridge. See *indicator (j) (1).—Integrating indicator, an engine-indicator combined with a recording apparatus for measuring, and usually for recording, the power developed by the engine in a number of revolutions. It consists of an indicator on the drum of which rests a wheel carried at the end of the arm. A revolution-counter is attached which records the number of revolutions of the engine. There are many other forms. This indicator is used when power is rented to tenants and users, as a meter to determine the consumption to be paid for.—Leeway indicator. See *leeway.—Printers' indi-

indicator-card (in'di-kā-tor-kārd"), n. gram which shows the pressure in the cylinder gram which shows the pressure in the cylinder of an engine at any point of the stroke. It is made by an engine-indicator. This card is made to a definite quantitative scale for both height and length, and its area is therefore proportional to the work performed by the engine in one stroke. The horse-power calculated from the area of such a card is called the indicated horse-power. Its area divided by its length gives the mean height, and such mean height is the mean pressure during that stroke when multiplied by the scale of ordinates as related to the pressures. See indicator, 1 (a). indicator-cock (in di-kā-tor-kok'), n. A three-way cock so arranged that any steam left in

way cock so arranged that any steam left in the pipe after making a diagram (indicatorcard) will be exhausted into the atmosphere when the valve is turned to cut off steam from the end of the cylinder. It also establishes atmospheric pressure-ordinates upon the indicator-diagram, and by comparison with a barometer-reading absolute pressures can be established.

indicator-drum (in'di-kā-tor-drum'), n. The cylinder or drum of an engine-indicator for

eylinder or drum of an engine-indicator for holding the paper on which the diagram is to be traced as the piston makes its traverse. indicator-piston (in'di-kā-tor-pis'ton), n. The piston of an engine-indicator on which the pressure in the cylinder acts when making an indicator discount.

dynamics, p. 20.
indicator-post (in'di-kā-tor-pōst'), n. In afireservice (particularly in a mill or factory which
employs sprinklers for drenching the walls or partitions), an upright casting containing the key-stem and valve of the service-pipe and fitted with an indicator or movable sign to show instantly the position of the valve.

indicator-valve (in'di-kā-tor-valv'), n. A ser-

indicator-valve (in di-ka-tor-valv'), n. A service-gate or valve in a fire-service system which indicates the exact position of the gate (whether it is shut or open).

indicatrix, n. 3. In crystal, a surface, in general (for a biaxial crystal) an ellipsoid having axes proportional to the principal refractive indexes, whose geometrical characters serve to exhibit the optical relations of the crystal: for a uniaxial crystal the surface becomes a spheroid and for an isotropic crystals comes a spheroid and for an isotropic crystal a sphere. The indicatrix bears a simple relation to Fresnel's ellipsoid the axes of which are proportional to the reciprocals of the refractive indexes, that is, directly

proportional to the light-velocities in the given axial direction. L. Fletcher, The Optical Indicatrix, London, 1892. Indicial¹ (in-dish'i-al), a. [L. indicium, a mark, sign: see indicia.] Indicative. indicial² (in-dish'i-al), a. [Irreg. < L. index (indica), index, + ial.] Of or pertaining to an index. Compare indical. indictional (in-dik'shon-al), a. [indiction + -al.] Of or pertaining to an indiction or cycle of years. See indiction, 2 and 3. Indictment. n.—Joint indictment. in law, an indictment. n.—Joint indictment. in law, an indictionant.

acids.

indifuscin (in-di-fus'in), n. [indi(can) + L. fuscus, fuscous, $+ \cdot in^2$] A, brown amorphous compound, $C_{24}H_{20}O_9N_2$, obtained by heating indican with dilute mineral acids.

indifuscone (in-di-fus'kōn), n. [indifuscin + -one.] A dark reddish-brown pulverulent compound, $C_{22}H_{20}O_5N_2$, contained in crude natural indigo.

natural indigo.

indigon (in'di-gen), n. [indi(go) + -gen.] Same as spirit-soluble induline. See induline. indigenity (in-di-jen'i-ti), n. [indigen-ous + -ity.] Indigenousness.

Many'new species, but mostly of doubtful indigenity, have their line for the first time.

The Naturalist, No. 241, 1895. N. E. D.

The second class may be called the *indigenous* streams, as they are probably consequential and lie wholly within the bounding watershed of the basin-like area.

W. G. Tight, Drainage Modification, p. 13.

indigenousness (in-dij'e-nus-nes), n. The state of being indigenous or native to a place; not exotic.

indicator-planimeter (in'di-kā-tor-plā-nim'e-ter), n. A special form of polar planimeter for finding the mean height of the curved line of an indicator-card. See *indicator-card and diagram.

indicator-planimeter (in'di-kā-tor-plā-nim'e-ter), n. A special form of polar planimeter for finding the mean height of the curved line diagram.

indicator-point (in'di-kā-tor-point'), n. In thermodynamics, a point upon a diagram which represents the instantaneous state of a sysrepresents the instantaneous state of a sysrepresent system.

indignatory (in-dig'nā-tō-ri), a. [indignat(ion) + -ory.] Expressing indignation: as, indignatory answers; indignatory muscles.

tory answers; indignatory muscles.

indigo, n.—American indigo, the wild indigo, Baptisia tinctoria.—Animal indigo, indigo resulting from the oxidation of urine indican or indoxyl.—Artificial indigo, indigotin or indigo blue, manufactured from coal-tar products. In 1889 Baeyer obtained indigo blue in various ways from cinnamic acid. Since that time the methods of manufacture have been greatly improved and cheapened and the artificial is now a serious competitor of the natural indigo.—Blue, blue false, or blue wild indigo. Same as false indigo (b)—Chinese green indigo, a green dye obtained from the bark of any one of several species of Rhamnus, especially R. saxtilis. See Rhamnus.—Chinese indigo. (a) Isatis indigotica. See Isatis! (b) Same as Japanese *indigo.—Dwarf false indigo. Same as fragrant false *indigo.—Tragrant false indigo, Amorpha nana, a leguminous plant of the prairie region of western North America.—Gallanii indigo, a mordant coal-tar color of the oxazin type, prepared by the action of aniline upon gallanii violet. It gives an indigo-blue shade upon chromium-mordanted wool.—Green indigo. See Rhamnus.—Indigo extract. See indigo extract (under indigo). The chief constituents of indigo extract under indigo).

disulphonic acids, the former being produced by the action of ordinary sulphuric acid and the latter by the action of fuming sulphuric acid upon indigo blue.—Indigo salt, a yellow crystalline mass consisting of the sodium-bisulphite compound of orthonitrophenyllactoketone: so called because it is readily converted into indigotin when treated with a dilute alkali. The free ketone is sold, under the name of indigo salt T, in the form of a buff powder which is insoluble in water but dissolves in sodium bisulphite solution. It is used in calico-printing for the production of indigo bluea.—Indigo substitute. Same as *kaiserschwarz.—Japanese indigo, Polygonum tinctorium. See Polygonum.—Native indigo.

(a) In Tasmania, Indigofera australia, a congener of the common indigo. (b) In Australia, any plant of the genus Swainsona.—Paragnay indigo, a blue dye obtained from the leaves of a composite shrub, Eupatorium lære.—Pegu indigo, Marsdenia tinctoria, a tall, climbing shrub of the milkweed family, distributed from Burma to China. Its leaves yield indigo.—Prairie-indigo, Baptisia alba, a white-flowered species of the southern United States and Mississippi valley.—Reduced indigo. Same as indigo white.—Vat indigo, a name given to an indigo blue dyed in a reduction-vat to distinguish it from a blue dyed with indigo extract.—White wild indigo, any of the white-flowered species of Baptisia, especially B. alba. See prairie-*indigo, B. leucantha is the large white wild indigo.—Yellow indigo, yellow wild indigo, the blue dye obtained from a twining leguminous shrub of tropical West Africa, Lonchocarpus cyanescens.

indigoferous (in-di-gof'e-rus), a. [indigo + L.-fer, -bearing, +-ous.] Producing indigo; oyle of years. See indiction, 2 and 3.

indictment, n.—Joint indictment, in law, an indictment in which two or more parties are together charged with the commission of the same crime.

indifference-point (in-dif e-rens-point), n. In psychol., a term used in several more or less technical meanings: (a) The point at which, with gradual increase of temperature of a stimulus, the sensation of cold gives place to the sensation of warmth. It is psychological (that is, appears in sensation) or whether it is simply mathematical. (b) In Wundt's curve of pleasantness-unpleasantness, the point at which decreasing pleasure passes over into unpleasantness. It is, again, a matter of dispute whether the point is psychological or merely geometrical. (c) In work upon the reproduction of time-intervals, the point at which decreasing pleasure passes over into unpleasantness. It is, again, a matter of dispute whether the point is psychological or merely geometrical. (c) In work upon the reproduction of time-intervals, the point at which reproduction is accurate, involving neither underestimation nor overestimation of the standard time.

Indifferent point. See *point!.

indifferent point. See *point! See *point! See *point

indigo-purpurin (in' di - gō - per pū - rin), s.

Same as indigo red.
indigo-sapphire (in'di-gō-saf'īr), n. The dark
or indigo-colored sapphire from Ceylon or Australia.

indigo-vat (in'di-gō-vat), n. 1. A vat or cistern specially constructed for dyeing raw material or cloth with indigo.—2. An indigo liquor prepared for dyeing raw material or

indigrubin (in - di - grū'bin), n.

indigenity (in-di-jen'i-ti), n. [indigen-ous + -ity.] Indigenousness.

Many'new species, but mostly of doubtful indigenity, have their line for the first time.

The Naturalist, No. 241, 1895. N. E. D. indigenous, a. 3. In geol., noting a rock or a mineral which has originated as such in the place where it is found, such as granite or basalt in situ. A glacial boulder brought from a distance is exotic or erratic.—4. In physiog., noting a stream which developed originally in its present surroundings: it is a consequent one in most cases.

The second class may be called the indigenous streams as they are probably consequential and lie wholly within the bounding watershed of the basin-like area.

The original problem of the proble

*indic².

Indio (in'di-ō), n.; pl. Indios (-ōs). [Sp. Pg., < India, India.] 1. In Spanish use, an' Indian,' that is, one of the various native peoples of Asia or America; specifically—(a) in the Philippine Islands, a native and especially a Christian native; (b) a Malay of the Philippine Islands, as distinguished from members of other races living there.—2. A Portuguese silver coin, ordered to be struck in 1499, on the model of the Venetian marcella.

indispensable, a. II. n. 1. An indispensable person or thing.

Necessary Linnen and those Indispensables that belong to young Women.

Mrs. Manley, Power of Love, vi. N. E. D.

2. Specifically, trousers. [Humorous.]

He slapped his hand against his yellow leather indispensables.

Comic Almanack, June (1842), (Farmer). N. E. D. 3. A bag or pocket, frequently of silk and much decorated, worn by women in the first years of the nineteenth century, on the out-side of the gown, instead of inside, as an ordinary pocket would be.

Rows of pretty pecresses who sat eating sandwiches from silk indispensables [at Lord Melville's trial, 1806].

C. K. Sharpe, Correspondence, L. 265.

ndividual. I. a.—Individual telesis, telics, variation. See *telesis, etc.

riation. See **telesis*, etc.

II. n. (d) In biol.: (2) A living being considered as unique or different from its kind and from the rest of nature, without reference to its morphological or physiological independence or dependence. It is in this sense that an organism is termed an *individual* with reference to reproduction and inheritance.

[When amongst] individuals, apparently exposed to the same conditions, any very rare deviation, due to some extraordinary combination of circumstances, appears in the parent—say, once amongst several million individuals

—and it re-appears in the child, the mere doctrine of chances almost compels us to attribute its re-appearance to inheritance.

Darwin, Origin of Species, p. 10.

Genealogical individual, the series of stages between the fertilized egg and sexual maturity. Huzley.

individuality, n. 5. In biol.: (a) Physiological completeness or independence; the

ability of an organism to perform its normal functions or live out its life without the cooperation of others. The independence of a unicellular protozoon is an example of physiological individuality, as contrasted with the dependence of one of the cells of a metazoon upon the others and the whole. A physiological individual is sometimes termed a bion, as contrasted with a morphological individual or morphon. See *bion and *morphon, 2. vidual or morphon. See *bion and *morphon, 2.

(b) Structural independence, or homology with or morphological equivalence to a physiological individual. The homology of each of the dependent members of a siphonophore with an independent hydra is an illustration of morphological individuality. So far as each of the constituent cells in the body of a metazoon is homologous with an independent protozoon it is a morphon, or morphological individual. Morphologists recognize and give names to several grades or categories of morphological individuality. See plastid, idorgan, person, 8, and *cormus, 3.

(c) The uniqueness of a living being, or its difference from others of its kind and from the rest of nature. It is in this sense that the offrest of nature. It is in this sense that the off-spring is said to inherit the individuality or constitution of a parent.—Multiple individuality, a term used by L. F. Ward to designate the structural or physiological independence of the units which make up the structure of a compound organism, such as the cells which compose the body of a metazoön.

Multiple Individuality. Each cell still acts and feels for itself, and maintains its individuality within the higher individuality.

L. F. Ward, Dynamic Sociol., I. 373.

individuation, n. 3. In biol.: (a) A general term summarizing the conditions for the maintenance and perpetuation of an individual organism, when these conditions are considered collectively and in contrast with those which conduce to the generation of new beings beings.

Mr. Herbert Spencer has shown... that with all organisms a ratio exists between what he calls individuation and genesis.

Darwin, Descent of Man, I. 318. (b) A unifying principle or a cause of individ-

Such an animal is really the theatre of some unifying power which synthesizes its varied activities, dominates its forces, and is a principle of individuation.

Mivart, The Cat, p. 376.

4. The unification of two distinct types of

organisms into an individual whole, such as the lichen-thallus. Tubeuf.

individuative (in-di-vid'ū-ā-tiv), a. [individuate + -ive.] That individualizes: as, indiuate + -ive.] That in viduative development.

The eighteenth century having been an age of individuative, the nineteenth necessarily became an age of associative or coinonomic development.

J. H. Burton, Book Hunter, iii. 224.

individuum (in-di-vid'ū-um), n.; pl. individua (-ä). [L., an undivided thing, an atom, neut. of individuas, undivided: see individual.] 1. An undividable entity; one thing, inseparable into parts; the indivisible; formerly, an atom.—2. One individual person or thing out of many of the same kind.

Ind. Meth. An abbreviation of Independent Methodists.

Indo-Abyssinian (in'dō-ab-i-sin'i-an), a. and n. I. a. In ethnol., including both the curly- or wavy-haired black peoples of India (Dravidians) and those of northeast Africa (Hamites).

and those of northeast Africa (Hamites).

Again, what is to be made of the expression "Indo-Abyssinian," or even "Abyssinian" at all as an ethnical term? The very word (Habeshi) means "mixed," and in African ethnology "Abyssinian" conveys no more meaning than does "Hungarian" in European ethnology; both are national not racial designations, and as a Hungarian may be a Magyar, a Slay, a Rumanian or a Teuton, so an Abyssinian may be a Hamite (Agao and others), or a Semite (Tigré and others).

Keane, Ethnology, p. 170.

II. n. One who belongs to either of the

above peoples.

Indo-African (in-dō-af'ri-kan), a. Related to or connected with India and Africa: applied to a continent supposed to have existed between India, Africa, and Australia, and now covered by the Indian Ocean.

It is admitted by all ethnologists that Asia is the original home of the Mongolic division, a fact which harmonises well with the view that the vanished Indo-African Continent was the cradle of mankind. Keane, Ethnology, p. 295.

Indo-African continent. See *continent.

Indo-Aryan (in'dō-ār'yan), a. Of or pertaining to the Indic division of the Aryan family.

Indo-Austral (in'dō-âs'tral), a. Related to

India and to Australia or the Austral regions.

The possible fusion of Melanochroid Caucasic (South Indian) and Austral Negro blood at a remote epoch in some now perhaps submerged Indo-Austral region.

Keane, Ethnology, p. 226.

Indo-Celtic (in'dō-sel'tik), a. Same as Indo-Germanic and Indo-European: a term distinguishing Celtic as the most western member of the Indo-European family. Indo-Dutch (in "dō-duch'), a. and n. I. a. Re-lating to India and to Holland, or to the Dutch

in India.

Indo-Egyptian (in'dō-ē-jip'shan), a. Having the combined characteristics of Indian and Egyptian culture.

Indo-Eur. An abbreviation of Indo-European. Indo-French (in'dō-french'), a. and n. I. a. Relating to India and to France, or to the French in India.

II. n. pl. French who are born or who reside in India.

Indo-Gangetic (in'dō-gan-jet'ik), a. Of the Indus and the Ganges: as, the Indo-Gangetic plain of northern India.

In general "the extra-peninsular ranges, the great Indo-langetic plain, the northern margin of the peninsula, and he western coast owe their origin to another great series of earth-movements which took place during the tertiary tra."

indogenid (in-doj'e-nid), n. [indogen + -id1.] The class-name of a series of compounds formed from indogen and certain aldehydes.

They contain the group C₆H₄< C:, which

is called the indoxylic or indogenic radical.

Indo-German (in'dō-jer'man), a. and n.

a. Same as Indo-Germanic.

II. n. A German who was born in or who resides in India. *Keane*, Ethnology, p. 395.

Indo-Greek (in'dō-grēk'), a. and n. I. a.
Exhibiting the combined influence of India and Greece; also, pertaining to Greeks residing in India: specifically, noting a large number of monuments in northwestern India, and many sculptured decorations in the same region which show traces of Greek influence, due to the invasion of Alexander and the commercial supremacy of the Greeks in the East. II. n. A member of the ancient Greek race

residing in India. A very interesting invention of the Indo-Greeks.
P. Gardner, Types of Greek Coins, p. 210.

Indoin blue. See *blue.
Indo-Iranic (in'dō-ī-ran'ik), a. Pertaining to the Indic and Iranic divisions of the Aryan

Indol blue. Same as indoin \star blue. indolin (in'dō-lin), n. [indol + -in².] A pale yellow compound, $C_6H_4\langle \overset{\text{CH:CH.NH}}{\text{NH.CH:CH}} \rangle C_6H_4$, prepared by the reduction of indigo white. It

sublimes in long needles which melt at 245° C. indolinone (in'dō-li-nōn), n. [indolin + -one.] Same as *oxindol.

ndoloid (in'dō-loid), a. [indol + -oid.] Pertaining to indol; specifically, noting the odor indoloid (in'dō-loid), a. of this compound.

Another group of flowers have nauseous or indoloid odors due to the decomposition of some nitrogenous compound. They are often fiesh-colored, blood red, dull dark purple or red, and sometimes they are marked with livid stripes or spots. By some authors they are regarded as resembling putrifying flesh or decaying carcasses.

Amer. Nat., July, 1903, p. 476.

Land Mark. Mat., July, 1903, p. 476.

Amer. Nat., July, 1903, p. 476.

Indo-Malayan (in'dō-mā-lā'yan), a. Relating to both India and the Malayan islands.—Indo-Malayan subregion, in zoōgeog., the region comprised in the Malay Peninsula, the Philippines, Ceylon, Formosa, Sumatra, Java, and Borneo, together with many islands of minor area.

Indo-Malaysian (in'dō-mā-lā'si-an), a. Same as *Indo-Malayan.

indone (in'dōn), n. [ind(igo) + -one.] The class-name of a series of dyes of the type O: $C_6H_3\langle_{NR}^N\rangle$ C_6H_4 , or $HOC_6H_3\langle_{N}^N\rangle$ C_6H_4 , HO^R

formed by the action of concentrated mineral

acids on indulines.

Indonesian, a. 2. Of or pertaining to a supposed aboriginal race of southeastern Asia and the Malay Archipelago, resembling Europeans in general appearance and believed by some authors to be related to them. They are

believed to constitute one element of the mixed popula-tion of the Malay Archipelago, and to be found in a nearly pure state on some of the islands.

II. n. An individual belonging to the Indonesian race.

Indo-Oceanic (in'dō-ō-shē-an'ik), a. Relating or pertaining to the Indonesian Archipelago and to the islands of the Pacific Ocean.

Indoor base-ball. See *base-ball.

Indo-Pacific, a. 2. Of or pertaining to the

n India.

Indo-Putch (in' do-duich'), a. and n. 1. a. Relating to India and to Holland, or to the Dutch on India.

Indo-Putch (in' do-duich'), a. and n. 1. a. Relating to the group of languages, sometimes called Malayo-Polynesian, spoken from Madagascar to Easter Island (excluding Australia).

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Indo-putch (in' do-duich'), a. and in in' do-duich'), a. and in in' do-duich' (in' do-duich'), a. and in' do-d

graphical division which consists of the Capricorn. Sclater.

The Indian Sea-region, or *Indopelagia*, containing the Indian ocean down to about the same degree of south latitude, and extending from the coast of Africa on the west to Australia and the Malay archipelago on the east.

*Geog. Jour. (R. C. S.), X. 218.

indophan (in'dō-fan), n. [ind(igo) + Gr. **Indopnan** (in do-fan), n. [ind(igo) + Gr. $\phi a \nu \eta_0$, $\langle \phi a i \nu e \sigma \theta a i$, shine, appear.] A violet compound, $C_{22}H_{10}O_4N_4$, prepared from 2, 4, dinitro-a-naphthol and potassium cyanide. It has a green metallic luster and forms a purplered solution with certain acids.

indophenin (in -dō -fō 'nin), n. [ind(igo) + phen(yl) + -in².] A blue pulverulent compound, $C_{12}H_7ONS$, prepared by the condensation of isatin and thiophene. It crystallizes in small needles which have a coppery luster when rubbed.—Indophenin reaction, a reaction causing the formation of indophenin and used as a test for thiophene. formation of indephenin and used as a test for thiophene. Indophile (in'dō-fil), n. [Gr. 'Ivơơc, Indian (India), $+ \phi i \lambda c_c$, loving.] One who supports and advances the interests of India and her

and advances the interests of India and her people. Pall Mall Gazette, Sept. 19, 1865.

Indophilism (in-dof'i-lizm), n. [Indophile + -ism.] Strong feeling for and championship of the interests of India.

Indophilist (in-dof'i-list), n. Same as *Indo-

indophor (in'dō-fōr), n. [ind(igo) + Gr. -φορος, -bearing.] A mixture of indoxyl and indoxylic acid which, when padded upon cotton and steamed, yields indigo blue. It was introduced in 1895 for calico-printing and was a step toward the introduction of artificial indigo. indigo.

Indo-Saracenic (in'dō-sar-a-sen'ik), a. Pertaining to the mixture of Indian and Saracenic elements.

Indo-Scythian (in'dō-sith'i-an), a. Of or pertaining to India and Scythia.

Indo-Spanish (in dō-span'ish), a. Having both Spanish and American Indian traits; particularly, of mixed Spanish and American Indian blood.

Indo-Teutonic (in'dō-tū-ton'ik), a. Same as Indo-European.

indotype (in'dō-tīp), n. In photog., a print by the gelatin process: a name not now in use. indoxyl (in-dok'sil), n. [ind(igo) + ox(ygen) + -yl.] A colorless oil, $C_6H_4 < {\rm COH} > {\rm CH}$,

occurring, in combination with sulphuric acid.

in human urine. It is prepared by fusing indigo with potassium hydroxid and the reverse change readily occurs by the action of air or oxidizing agents. It is also called

duction of ethylorthonitro-phenylpropionate. It sublimes, melts at 122-123° C., and is readily converted into indigo. Also called indoxylic acid.

indoxylic (in-dok-sil'ik), a. Same as *indoxyl-

Indra's sheep. See *sheep1.

Indra's sheep. See *sheep1.

inductance, n. It is the property of an electric current in a circuit (called the inducing circuit) of producing a magnetic field surrounding the circuit, which when changing induces an electromotive force in a circuit surrounded by this field or a part thereof (called the induced circuit). If the induced and the inducing circuit are the same, the property is called self-inductance, otherwise mutual inductance. Unit inductance is the number of lines of magnetic force produced by unit current in the inducing circuit and interlinked with the conductor of the induced circuit: 10° times this unit is the practical unit of inductance, called a henry.—Ferric inductances. See *ferric.—Inductance factor. See *factor.—Mutual inductance, the numerical value of mutual inductance and *unit of inductance.

A coil inductance-coil (in-duk'tans-koil), n. which resists the passage of alternating or os-cillatory currents on account of its inductance;

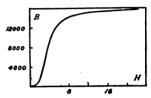
inductance-reactance (in-duk'tans-rē-ak'-tans), n. The reactance of an inductancetans), n. The reactance of an inductance-coil as distinguished from that of a condenser. inductance-shunt (in-duk'tans-shunt), See *shunt.

See *shunt.

induction, n. 6. Magnetic induction is the flux density in a m dium such as iron when subjected to a magnetizing force. It is expressed in terms of a unit called the gauss, namely, the number of lines of force per square centimeter of cross-section of the substance. Induction, thus numerically defined, is usually designated by the letter B; the magnetizing force to which it is due, by the letter H. Induction is frequently determined by winding a ring-shaped piece of the iron to be tested with two colls of wire, the primary and the secondary coil. The secondary coil is connected to a ballistic galvanometer and a known current is suddenly sent through the primary coil. The magnetic field thus established within the iron induces a flow of electricity through the secondary coil and through the galvanometer, which affords a measure of the induction. The relation is expressed by the equation

$$B = \frac{QR}{n_2 S},$$

 $B = \frac{QR}{n_2S},$ where Q is the quantity of electricity as measured by the deflection of the galvanometer, R is the resistance of the secondary circuit, S is the cross-section of the iron, and ng is the number of turns of wire in the secondary coll. The relation between induction and the magnetizing force may be expressed graphically by means of a curve, called the curve of induction, in which ordinates represent the values of the induction B and abscisse the corresponding values of the induction B and abscisse the curve rises slowly for small magnetizing forces and then sharply, for a time, until the iron approaches saturation, after which the slope of the curve diminishes. These changes in the direction of the curve are due to variations in the permeability of the iron, which increases with the magnetizing force, reaches a maximum, and then diminishes again indefinitely. The induction B is not identical with the magnetization I which is defined by the equation $I = \frac{B-H}{I}$



$$I = \frac{B - H}{4\pi}$$

7. The leading or admission of steam into a 7. The leading or admission or seeam into a cylinder.—Bipolar induction. See unipolar kinduction.—Ohemical induction, in phys. and photog. chem., the phenomenon in which light, falling on a sensitive substance, does not at once act with its full intensity, but at a much less rate, and attains its maximum action only after a certain time—measured in thousandths of a second in the case of a photographic plate, but in minutes in the case of a sensitive mixture of chlorin and hydrogen.

A second very remarkable phenomenon, first pointed out by the authors, is that of chemical induction. This refers to the fact that the action of light on the sensitive mixture of chlorine and hydrogen does not begin in its full intensity, but that it slowly increases, until after the lapse of a certain time it attains its regular and maximum rate.

Smithsonian Rep., 1899, p. 620.

inherities, but that it stowy increases, that after the lapse of a certain time it attains its regular and maximum rate.

Smithsonian Rep., 1899, p. 620.

Coefficient of induction, the numerical value of self-induction or mutual induction, inductance.—Coefficient of mutual induction, the numerical value of the induction produced by a changing current in a neighboring circuit; mutual inductance.—Consilience of inductions. See *konsilience.—Curve of induction. See *konsilience.—Curve of induction. See *konsilience.—Curve of induction in which the conductor moves or revolves in the constant magnetic field or inversely. All dynamo-electric machinery is based on this principle.—Forward induction, in elect., induction, due to the action of the current in the armature of a generator or motor upon the field, such as to strengthen instead of to oppose the field.—Mathematical induction. (a) See induction, 5. (b) In general, the principle that, given any class of terms s, to which belongs the first term of any progression, and to which belongs the term of the progression next after any term of the progression belonging to s, then every term of the progression belonging to s, then every term of the progression belonging to s, then every term of the progression belonging to s, then every term of the progression belonging to s.—Photochemical induction. See chemical *induction.—Simultaneous light induction.

See chemical *induction.—Simultaneous light induction in physiol. and psychol. optics, a phenomenon of local adaptation. If the boundary line of two contrasting surfaces is steadily fixated, contrast gradually changes into its opposite; the sensory effect of the local stimulation appreads more and more widely over the background. This is *inultaneous light induction.—Bunduction, in physiol. and psychol. optics, the persistence of the phenomenon of simultaneous light induction after removal of the induction simultaneous light induction after removal of the induction, and psychol. optics, the persistence of the phenomenon o

Let us imagine two very narrow tubes of induction whose normal sectional areas are very small. Du Bois, The Magnetic Circuit, p. 89.

Unipolar induction, induction due to any movement of a conductor in a magnetic field such that the cutting of lines of force occurs continuously in the same sense and the induced current flows always in the same direction in the conductor: opposed to so-called bipolar induction, in

induction-balance, n.—Hughes's induction-bal-ance, an apparatus for detecting the presence of con-ducting or magnetic substances by their disturbing effect on a system of balanced induction-coils.

induction-booster (in-duk'shon-bös'ter) An induction-generator connected in series in an alternating-current circuit to regulate the voltage. Such a machine when driven above synchronism raises the electromotive force of the circuit; when below synchronism, it diminishes the voltage.

induction-current (in-duk'shon-kur'ent), n.
A current in a body of water induced by the flow of another current. The induction-current flows in a direction opposite to that of the main current.

When the area over which a wind acts is small relatively to the size of the sheet of water, or when a part of the water is sheltered, e.g. by a headland, the return current may principally flow by the side of the drift instead of underneath. There is, besides, the polarization current due to gravity, a second sort of reverse current, viz. the induction currents (induced by viscosity), which, with eddies interposed as friction wheels, flow parallel with and in the opposite sense to the primary ocean currents.

Geog. Jour. (R. G. S.), XI. 529.

induction-furnace (in-duk'shon-fer'nās), n. Same as electric *furnace.

Same as electric *furnace.
induction-generator (in-duk'shon-jen'e-rātor), n. In elect., an alternating-current generator, consisting of an alternating, single-phase, or polyphase stationary and a short-circuited revolving winding, that is, of the same construction as an induction-motor (see electric *motor). An induction-motor, when speeded up above its motor speed, becomes generator and produces electric nower. generator and produces electric power.

induction-meter (in-duk'shon-me'ter), n. A meter based on the principle of the induction-motor. See electric machine, under electric.

induction-motor (in-duk'shon-mō'tor), n. In containing, however, no conspicuous stars, its elect., an alternating-current motor in which the armature is short-circuited upon itself and indusiform (in-dū'zi-fôrm), a. Same as *in-to-direction of the containing of the containing however, no conspicuous stars, its brightest being only of magnitude 3½.

the armature is short-circuited upon itself and the armature current is an induced current produced by the field or exciting current. induction-regulator (in-duk'shon-reg"ū-lātor,), n. A voltage or electric-pressure regulator consisting of two coils or sets of coils which can be moved against each other so as to change their inductive relation and thereby their voltage. their voltage

induction-top (in-duk'shon-top), n. A metal disk which, while spinning about a vertical axis in a magnetic field, inclines under the influence of currents induced in the disk itself.

induction-wattmeter (in-duk'shon-wot'mē-ter), n. See *wattmeter. inductiv, a. and n. A simplified spelling of in-

inductive, a. II. n. An electric circuit containing considerable self-induction. See induction

inductometer, n.— Differential inductometer, an instrument devised by Latimer Clark for the discharging

inductometer, n.—Differential inductometer, an instrument devised by Latimer Clark for the discharging current from a cable.
inductophone (in-duk'tō-fōn), n. [Irreg. < L. inducere (pp. inductus), induce, + (tele)-phone.] A telegraphic device invented by Willoughby Smith for signaling between moving trains and stations along the line by means of induced anyways. of induced currents.

inductor, n. 2. Specifically: (a) The revolving element of an inductor-alternator. (b) An induction-coil.

The 40-inch inductor is connected up, and demonstra-tions and lectures on all the apparatus are given every day at three o'clock. Elect. World and Engin., Sept. 24, 1904, p. 514.

inductor-alternater (in-duk'tor-al'ter-nā-

ter), n. See *alternater.
inductor-dynamo (in-duk'tor-dī'na-mō), n. A
type of electric generator in which field-coils and armature are fixed, and in which fluctua-tions are periodically caused in the magnetic thus inducing currents in the armaturewindings, by the movement of masses of lam-inated iron (inductors).

inductorium, n.—Double inductorium, in physiol., an instrument devised by M. von Vintschgau, consisting



Double Inductorium.

of two sets of primary and secondary colls mounted on the same base, and so disposed that the same electric current can be sent through both, at once or in immediate succession, or can be confined to the one or the other according to the requirements of experiment. The Wagner hammer is either mounted on a wooden block between the coils, or is set up upon a separate base.

which there is reversal of current in the conductor every inductory (in-duk'tō-ri), a. [NL. *inductorius, ⟨ L. inducere, lead in: see induct.] Serving to induct or bring in; introductory: as, laws

inductory to a new régime.

Induline scarlet. See *scarlet.
indulto, n. 2. In Sp. law, pardon for a criminal, or a remission of the sentence or penalty imposed upon him.

induna (in-dö'nš), n. [Zulu.] An officer under the chief, among the Zulus and other South African tribes. There are usually several indunas in each tribe: they act both as councilors and ministers of the chief, being responsible to him only.

The chiefs are possessed of arbitrary power, but in practice the advice of a numerous body of councillors is invariably sought in all matters of importance. These councillors, or indunas, are in turn responsible to the chief for the conduct of affairs in the various districts in which they exercise authority.

Geog. Jour. (R. G. S.), XL 514.

indurable² (in-dūr'a-bl), a. [in-3 + durable.] Not durable.

Soft wood blocks are insanitary and indurable.

The Hub, Oct. 28, 1899. N. E. D.

indurated, p. a. 2. In geol., hardened; consolidated: applied specifically to fragmental sediments such as sandstone, clay, or shale.

induration, n.—Primary or primitive induration, the syphilitic chances.

indurite (in'dū-rīt), n. [indur(ate) + -ite².]
An explosive; a variety of smokeless powder consisting of one part guncotton blended with from one to two parts nitrobenzene. The paste is passed through rollers and granulated or pressed into the form of cords, and finally hardened or 'indurated' by the action of hot water or steam.

Indus (in'dus), n. [L. Indus, < Gr. 'Iwió; see Indian.] The 'Indian,' a moderately large southern constellation between Grus and Pavo, containing, however, no conspicuous stars, its brightest being only of magnitude $3\frac{1}{2}$.

dusiiform.

indusiiform (in-dū'gi-i-fôrm), a. Having the

form or shape of an indusium.
indusioid (in-dū'zi-oid), a. [in-oid.] Resembling an indusium. [indusi(um) +

indusium, n. 5. A layer of gray matter covering the corpus callosum in the brain: also indusium griseum.—6. One of the embryonic envelops developed in addition to the amnion and serosa in certain insects, such as the Locustidæ. Wheeler, 1893.— Indusium verum, the thin, vestigial cerebral cortex present on the dorsal surface of the callosum.

industrial, n. 2. A share of stock in an industrial (manufacturing or commercial) enterprise.

Great bales and bundles of "industrials" have had to be thrown over also for protective purposes.

N. Y. Times, July 22, 1903.

-iness (i'nē-ē). [NL., fem. pl. of -in-eu-s: see -ine¹ and -ex.] A terminal combining-form much used in botanical classification: usually denoting large groups. In Engler's system it denotes groups with the rank of suborders, called by him subseries (Unterreihen).

inée (ē-nā'e), n. [W. African.] An arrowpoison used by the natives of the Gaboon country. It is prepared from the seed of Strophanthus hispidus. Also called Kombe arrow-poison.

arrow-poison.

ineffable, a. II. n. 1. pl. Trousers. [Humorous.]

Shoes off, inefables tucked up.

W. Cory, Letters and Journals, p. 196. 2. One who is not to be named; one who is too high in his profession or in the fashionable world to be named with others.

Two white-hatted and pigtopped inefables had taken refuge under the colonnade from a transient shower of rain. It was a by-race, and there was little doing, so the inefables put up their betting-books and relaxed into general conversation.

Illus. London News, June 15, 1861, p. 548.

ineffulgent (in-e-ful'jent), a. [in-3 + effulgent.] That is not effulgent; lacking power

inemotivity (in-ē-mō-tiv'i-ti), n. [in-3 + emotive + -ity.] Incapacity of showing emotion; lack of emotional sensibility.

The latter [Prof. James] himself candidly observes. "We must remember that the patient's inemotivity may have been a co-ordinate result with the anæsthesia of his neural lesions, and not the anæsthesia's mere effect."

Encyc. Brit., XXXII. 66.

inemulous (in-em'ū-lus), a. [in-3 + emulous.] Without emulation; not emulous; not envious (for).

He treads, inemulous of fame or wealth, Profuse of toil, and prodigal of health; With soft assuasive eloquence expands Power's rigid heart, and opes his clenching hands.

Dr. E. Darwin, Botanic Garden, il. 2.

inequality, n.—Inequalities in altitude, the slight errors due to the expansion and contraction of the sextant

errors due to the expansion and contraction of the sextant frame from changes of temperature. inequiactinate (in-6-kwi-ak'ti-nāt), a. [L. in-neg. + æquus, equal, + E. actine + -ate¹.] In sponge-spicules, having actines or rays of unequal length or size.

Oxeas in great variety of size and form . . . often inequiactinate, the large oxeas very broad in the middle and tapering gradually to fine points.

Proc. Zool. Soc. London, 1902, II. 214.

inequianchorate (in-ē-kwi-ang'kor-āt), a. [L. in-neg. + L. æquus, equal, + E. anchorate.]

inequianchorate (in-ē-kwi-ang'kor-āt), a. [L. in-neg. + L. æquus, equal, + E. anchorate.] Unequally anchorate. See *equianchorate. inequiaxed (in-ē'kwi-akst), a. [L. in-neg. + æquus, equal, + axis, axis, + -ed².] Characterized by unequal axes. Also inequiaxial inequiaxial (in-ē-kwi-ak'si-al), a. Same as *inequiaxed. inequilatere is the control of th

inequilaterality (in-ē-kwi-lat-e-ral'i-ti), n.
[inequilateral +-ity.] The condition of being inequilateral, as the shells of the pelecypod Mollusca

mountaily (in-ē-kwi-lat'e-ral-i), adv. With the sides unequal; specifically, in zoöl.:

(a) unequally on two sides: as, inequilaterally rounded; (b) so as to have two sides unequal: inequilaterally as, inequilaterally produced or developed.

Buck, Med. Handbook, I. 191.

inergetic (in-er-jet'ik), a. [For *inenergetic, < in-3 + energetic.] Without energy. Tupper. inerroneous (in-e-rō'nē-us), a. [in-3 + erroneous.] Not erroneous; without errors.

There are many thoughtful, although possibly not in-rroneous students of the subject.

R. G. White, Every-day English, p. 127. N. E. D.

inertia, n.—Electric inertia. (b) Inertia over and above that ascribable to the ordinary mass of a body and due to existence of an electric charge. Also called electromagnetic inertia.—Electromagnetic inertia.—See electric *inertia.

The smaller the sphere to which the electric charge is given, the greater will be the electromagnetic inertia.

*Elect. World and Engin., Jan. 17, 1903, p. 103.

Elect. World and Engin., Jan. 17, 1803, p. 103.

Inertia curve. See *curve.—Inertia of attention, in psychol., the tendency of the attention to hold fast to a given object or topic, or to recur to this object or topic, in spite of distractions: the counterpart and corrective of the versatility of attention, that is, of its tendency to range over the whole field of consciousness. Inertia of attention is a characteristic of the habituated, versatility of attention a characteristic of the habituated, versatility of attention a characteristic of the non-habituated consciousness.—Inertia turning-moment, in an engine, the turning-moment due to the inertia of the moving parta, particularly those parts which have a reciprocating motion.—Initial inertia, in psychophys., that quality of enwise habituated as ensation does not rise at once to its full strength on the presentation of atimulus, but requires an appreciable time to attain its maximal intensity.—Mechanical inertia, inertia due strictly to the mass of a body, as distinguished from the extra electrical or electromagnetic inertia which it acquires when the body is electrically charged.—Rotational inertia. Same as moment of inertia (which see, under inertia).

The rotational inertia of the body = miri² + mgra²

The rotational inertia of the body = $m_1r_1^2 + m_2r_2^2 + m_3r_2^2 + \dots = \Sigma$ (mr²). This quantity Σ (mr²) is generally called the Moment of Inertia of the body.

A. M. Worthington, Dynamics of Rotation, p. 20.

A. M. Worthington, Dynamics of Rotation, p. 20.

Terminal inertia, in psychophys., that quality of nervesubstance or of the tissue of the end-organ in virtue of
which a sensation does not cease at once with the removal
of atimulus, but requires an appreciable time to disappear.

Baldwin, Dict. Philos and Psychol. I. 651.—Unit moment of inertia, a moment of inertia such that a unit
couple will give unit angular acceleration.

inescatory (in-es'kā-tō-ri), a. [inescate + -ory.] Pertaining or adapted to inescation; baiting; alluring.

Mouse traps, inescalory traps.

Encyc. Antiq., I. 390. N. E. D.

inesculent (in-es'kū-lent), a. [in-8] + esculent.] Not esculent; not eatable. Peacock, Crotchet Castle, ii.

inessive (in-es'iv), a. [L. inesse, be in (< in, in, + esse, be), +-ive.] In gram., expressing 'position in'; locative. Amer. Anthropologist, Jan.-March, 1903, p. 26. inexcommunicable (in-eks-ko-mū'ni-ka-bl), a.

[in-8 + excommunicable.] That cannot be excommunicated.

A multitude is inexcommunicable.

Collins, Def. of Bp. Ely, II. x. 531. N. E. D.

inexigible (in-ek'si-ji-bl), a. [NL. *inexigibilis, < in- neg. + *exigibilis, < L. exigere, exact: see exact, v.] That cannot be exacted.

Act: See Exact, v. J. I have cannot be exacted.

From admiration of the degree of perfection in which these inexigible services have been rendered by a Parish Priest, a Patron bestows upon him . . . the rich living, the dignified Sinecure, the Bishoprick.

Bentham, Church-of-Englandism and its Catechism [Examined, App., p. 281.

inexplicate, a. 2. Not explained.
inexpugnability (in-eks-pug-na-bil'i-ti), n.
The state of being inexpugnable, or unconquerable.

He himself, behaving to stand firm if the worst was not to realize itself, had to draw largely on what silent courage, or private inexpragnability of mind, was in him.

Carlyle, Frederick the Great, III. xv. 5.

In inexpungible (in-eks-pun' ji-bl), a. [in-3 + un-expunge + -able.] Incapable of being rubbed out or obliterated.

The law is on the statute book of human thought, inexpungible.

Chicago Advance, Feb. 20, 1896. N. B. D. in. f. An abbreviation of the Latin in fine, at

the end. inface (in'fās), n. $[in^1 + face^1]$ The inward face; specifically, in *phys. geog.*, the steeper slope or escarpment of a cuesta, facing inland. infacing (in'fā'sing), a. $[in^1 + facing.]$ Facing inward; facing toward the inside, as of a facing toward the inside, as of a facing toward. fortification.

The steep infacing escarpment. Geog. Jour. (R. G. 8.), IX. 548.

infall, n. 2. A junction; a falling or running together, as of streams; the joining of one road with another.

It was near to the *infall* of the road from Loch Dee that we first got sight of those we sought.

Crockett, Men of the Moss-Hags, xlvii.

3. The inlet or place where water enters a reservoir or basin: generally confined to cases where the water in entering pours or falls in. infamatory (in-fam's-tō-ri), a. 1. Defamatory: as, an infamatory statement.—2. Rendering infamous.

infancy, n.—Topographic infancy, the stage of a land form which, in its present relation to base-level, has very recently been subjected to the processes of crosion. infant, n. 4. A royal prince or princess of Spain or Portugal: as, the Infant Don Philip: not necessarily the heir to the throne.

infante, infanta.
infantile, a. 3. In geol., of a land form, having been subjected to the processes of crosion, in its present relation to base-level, for a very short time.

infantilism (in'fan-til-izm), n. [infantile + -ism.] Arrested or retrogressive development; the persistence or recurrence in the adult of those characteristics which are normal, but transient, in the child.

The term infantilism is equally applicable to the congenital and the acquired forms. The former have never left their childhood behind, the latter return to it.

Ribot (trans.), Psychol. of Emotions, p. 422.

A case of Infantitism in a child, aged ten years, who had not grown since four years old. Her weight was 26 pounds and her height was three feet.

Lancet, May 30, 1903, p. 1526.

Psychological infantilism, in psychol., a term introduced by Ribot to characterize the type of mind which is unstable, unquiet, nervous, and self-contradictory, on that the distinctive mark of the childish character is mobility. Ribot (trans.), Psychol. of Emotions, p. 422.

infantry, n.—Light infantry, infantry trained and equipped for rapid marching, as the bersaglieri of Italy.—Mounted infantry, infantry which does not march on foot, but is transported from point to point, usually on horses. Abbreviated M. I.

horses. Abbreviated M. I.

Mounted infantry are not cavalry but simply mobile infantry; they may be on horses, bleycles, or carried in carts; but are usually mounted on horses for convenience in conveying them from point to point.

United Service Mag., April, 1901, p. 108.

infant's-breath (in'fants-breth), n. Same as

*baby's-breath.
infect, v. t. 4. In philol., to affect the quality infect, v. t. 4. In philol., to affect the quanty of a sound in a following or preceding syllable: used especially in reference to the influence of prominent vowels, and phonetic influence of prominent vowels, and phonetic influence in the Celtic language.

| Compared to the quanty of the production of the nature of the celtic language. | Compared to the quanty of the production of the nature of the celtic language. | Compared to the quanty of the nature of the celtic language. | Compared to the quanty of the production of the nature of the celtic language. | Compared to the quanty of the production of the production of the nature of the celtic language. | Compared to the quanty of the production of the productin of the production of the production of the production of the pr

infectant (in-fek'tant), a. [infect + -ant.]
Infecting; having the power of communicating infectious disease.

infection, n. 4. In biol., the hypothetical influence upon the tissues of the mother animal by the sperm of a male, such that subsequent offspring of the mother by other sires are in-fected with the characteristics of the first sire: a hypothesis invented to account for telegony

See *telegony. Encyc. Brit., XXXII. 215. infectionist (in-fek'shon-ist), n. [infection + -ist.] One who believe ease through infection. One who believes in the origin of dis-

inferably (in'fer-a-bli or in-fer'a-bli), adv. By way of inference; in an inferable way. Harvard Psychol. Studies, I. 340.

inferent (in fe-rent), a. [L. inferens (-ent-), ppr. of inferre, carry in: see infer.] Same as afferent: noting a nerve, a lymphatic vessel, or a blood-vessel.

infernalize (in-fer'nal-iz), v. t.; pret. and pp. infernalized, ppr. infernalizing. [infernal + -ize.] To imbue with infernal character or traits: make hellish.

To infernalize human nature by poisoning the very sources of morality and peace.

Coleridge, Own Times, III. 961.

infero-external (in'fe-ro-eks-ter'nal), a. Be-

low and on the outer side.
inferofrontal (in'fe-rō-fron'tal), a. Situated on the lower part of the frontal region of the

cranium.—Inferofrontal fissure. See *fissure. infero-internal (in'fe-rō-in-ter'nal), a. Below and on the inner side.

inferolaterally (in'fe-rō-lat'e-ral-i), adv. To-ward or on the lower portion of the side of

any organ or object.

inferomarginal (in'fe-rō-mār'ji-nal), a. and
n. [L. inferus, lower, + margo, margin.]

Same as *inframarginal.

Same as *sn/ramarginal.
inferradial (in-fe-ra'di-al), a. [For *inferoradial or *infraradial; < L. inferus, lower (or
infra, below), + NL. radialis, radial.] Noting
the lower radial or part of the radial plate in
some of the crinoids. These are present when
the adial plate is transparsely divided, the the radial plate is transversely divided, the lower division being termed inferradial, the upper superradial.

infidelic (in-fi-del'ik), a. [infidel + -ic.] Of or relating to infidelity: as, immoral and infidelic tendencies. Homiletic Monthly, July, 1882, p. 596.

infidelical (in-fi-del'i-kal), a. [infidelic + -all.] Same as *infidelic. Coleridge, Unpub. Letters, p. 95.

infidelize (in'fi-del-īz), v.; pret. and pp. infidelized, ppr. infidelizing. [infidel + -ize.] I. trans. To make infidel: as, "to infidelize the world." Medwin, Shelley, II. 219. N. E. D.

A mark of disrespect publicly affixed upon it by individ-uals or bodies of men of high lead and authority, lets the anti-religionists loose at once, and the work of infidelizing a country is then more than half done.

Blackwood's Mag., XL 591.

II. intrans. To become an infidel; adopt disbelief in the divine origin of Christianity. in-fielder (in'fēl'der), n. In base-ball, a baseman, short-stop, or pitcher when he is fielding

in-fighting (in'fi"ting), n. In boxing, fighting at close quarters, where only short-arm blows can be delivered.

infiltration, n. 3. In geol., the introduction of water into porous or open-textured rock. The term is specially employed in the discussion of ore-deposits to describe the introduction of of ore-deposits to describe the introduction of new minerals in solution.—Infitration by ascension. See *miglitration theory.—Infitration theory, that theory among mining geologists which explains the introduction of ore and gangue into fissures by uprising water. The process is often called infitration by ascension.—Waxy infitration. Same as lardaceous disease (which see, under lardaceous).

infiltration-vein (in-fil-tra'shon-van'), n. vein produced by the introduction of the min-

infin. An abbreviation of infinitive.

infinit, a. and n. A simplified spelling of ininfinitarily (in-fin-i-tā'ri-ly), adv. In an in-

finitary way.

We may also say f(x) is infinitarily smaller than g(x). In symbols f(x) < g(x).

J. Pierpont, Theory of Functions, I. 314.

infinite. I. a.—Doubly infinite, in math., containing two parameters, to each of which independently an unlimited number of values may be assigned.—Infinite set. See **set1.

II. n. 2. In geom., the plane on which lie all points at infinity and all straights at infinity. infinitesimal, a. and n. I. a.—Infinitesimal number, operation. See *number, *coperation.

II. n.—Method of infinitesimals. See *method.

infinitesimalism (infinites'i-mal-izm), w.
The doctrine that the potency of a drug is increased in proportion as the amount con-

tained in a given quantity of the triturate or solution approaches the infinitesimal.

infinitinomial (in-fin'i-ti-nō'mi-al), a. and n. (IL. infinitus, infinite, + nom(en), term, + -ial.

Cf. binomial.] I. a. Having an infinite number of terms. [Rare.]

II. n. A function which has an infinite number of terms.

infinitivally (in-fin-i-ti'val-i), adv. In manner or with the force of an infinitive.

On the English Perfect Participle used Infinitivally.

Amer. Jour. Philol., 1882, p. 297.

On the English Perfect Participle used Infinitivally. Amer. Jour. Philol., 1882, p. 297.

infinitive, n.—Gerundial infinitive. See *gerundial.—Split (or cleft) infinitive, a name conveniently used to designate briefly the infinitive phrase consisting of the infinitive proper (for example, 'designate,' below) and the so-called 'sign,' the preposition 'to,' when separated by a qualifying adverb or phrase, as in 'to briefly designate,' to readily understand,' to suddenly and completely change one's attitude.' This use is in high disfavor with literary critics and purists who write upon the subject, but it occurs abundantly in English literature from the seventeenth century down. Nearly every 'standard author' is 'guilty' of it, as Fitzedward Hall and others have shown, and it is thoroughly established in popular speech. It is often dictated by a sense of rhythm, the placing of the sadverb after the verb and before the week adjunct or object which follows the verb resulting often in disharmony of rhythm and stress. The idiom is a perfectly natural development of the conditions given—a verb to be qualified, a stress qualifier, and an unstressed syllable (to) of no definite meaning. This syllable to is instinctively treated as a or the is treated in a similarly stressed sequence of adjective and noun ('a brief designation,' 'the proper order,' etc.)

infinito-absolute (in -fin 'i -tō-ab' sō-lūt), a.

inflammation, n.—Obliterative inflammation, in-flammation of the lining membrane of a cavity, such for example as the pericardium or pleura, causing adhesions between the opposing surfaces and consequent oblitera-tion of the cavity.

inflatant (in-flatant), a. [inflate + -ant.]
Inflating; serving to inflate: also used sub-[inflate + -ant.] stantively.

inflected, p. a. 4. Serrated, or bent inward, as contour-lines representing deep ravines or narrow valleys cutting into an escarpment.

Inflection, n. 6. In eccles. chanting, same as

inflector (in-flek'tor), n. and a. [inflect + -or.] I. n. That which inflects or bends; specifically, a muscle that flexes or bends the joints of the limbs. The more commonly used word is flexor.

II. a. Inflecting or bending: as, the in-

flector muscles.
inflood (in-flud'), v. i. [in-1 + flood.] To flow

in; pour in, as a wave.
inflorescence, n. 2. In bot.: (b) The portion
of a plant devoted to reproduction, including the flowers, peduncles, rachides, general axes, flower-stalks, scapes, etc.

The inforescences, as well as the leaves, contribute largely to the formation of mould, and vegetable mould is said to be capable of absorbing almost twice its own weight of water.

Geog. Jour. (R. C. S.), X. 497.

Inflorescent (in-flores'ent), a. [LL. inflorescens(ent-), ppr. of inflorescere, begin to blossom: see inflorescence.] 1. Flowering; beginning to flower: said of plants or trees: -2. Of or peras, early inflorescent grasses .taining to blooming or flowering: as, inflorescent forces.

The flowering of man's spiritual nature is as natural and as strict a process of evolution as the opening of a rose or morning-glory. The vital inflorescent forces are from within, and are continuous from the root up.

J. Burroughs, in Pop. Sci. Mo., May, 1887, p. 10.

influent, a. 3. Noting that through which air or other fluid enters, either to cleanse or aërate: used of a pipe or duct, or channel

the point of view of the receiving stream.

influenza, n. 1. Influenza is an acute infectious disease of which the most prominent symptoms are fever, general prostration, pains in various parts of the body, and inflammatory processes attacking the serous or mucous membranes, the lungs, or the nerves. The onset is usually abrupt with headache, backache, fever, and loss of strength. According to the organs most affected in its further progress, the disease is said to be of the respiratory, nervous, or gastro-intestinal form. Influenza is noteworthy for the rapidity with which an epidemic sweeps over entire countries and even from one continent to another, and for the large proportion of the population attacked when it is prevalent. The disease is caused by a small, non-motile bacillus which occurs in great numbers in the nasal and bronchial secretions of the patients. Influenza has a low death rate, but its effect on the general health is often severe and lasting, and many grave sequeles are possible. One attack does not protect against a second. The ordinary influenza or 'grippe,' though in some ways simulating true epidemic influenza, is a different and much milder disease.

3. An infectious specific fever of horses, asses,

3. An infectious specific fever of horses, asses, and mules, characterized by alterations of the blood, great depression of the vital forces, and inflammatory complications, especially of the lungs, intestines, and brain. It usually assumes an epizoctic form.—Influenza bacillus. See *bacillus.—Laryngeal influenza, a form of influenza among horses in which sore throat is the pre-

influenza! (in-fio-en'zal), a. [influenza + -all.]
Of or relating to influenza. Jour. Exper. Med.,

infinitesimal of the second order.

Infinity, n. 4. An infinite number: as, an infinity of straight lines. Its symbol is ∞.

On each of the ∞² points on a plane are the ∞² straights of a straight-sheat; so there are just of straights.

Merriman and Woodward, Higher Mathematics, p. 97.

Infinity of a function, in function-theory, a value x which makes the function infinite,—Point at infinity. See *point1.

infinsile (in-fis'il), a. [in-3 + fissile.] Not infinite.—Point at infinity. See *point2.

infinsme, v. i. 2. To become inflamed.

inflame, v. i. 2. To become inflamed.

inflame, v. i. 2. To become inflamed.

inflame, v. i. 2. To become inflamed.

inflame of reckonings. Jonnson introduces a man of this kind in "The New Inn."

inflammation, n.—Obliterative inflamma**

fammation of the lining membrane of example as the percandlum or "between the opposine "it on of the eavier."

p. p. influenza. Jour. Exper. Med., oct. 1, 1901, p. 621.—Influenzal pneumonia, a form of preumonia associated with the presence of the bacillus of influenza instead of that of the pneumococcus—the usual form. The usual form. Influenzal instead of that of the pneumococcus—the usual form. Influenzal instead of that of the pneumococcus—the usual form. Influenzal instead of that of the pneumococcus—the usual form. Influenzal instead of that of the pneumococcus—the usual form. Influenzal instead of that of the pneumococcus—the usual form. Influenzal instead of that of the pneumococcus—the usual form. Influenzal instead of that of the pneumocaccus—the usual form. Influenzal instead of that of the pneumocaccus—the usual form. Influenzal instead of that of the pneumocaccus—the usual form. Influenzal instead of that of the pneumocaccus—the usual form. Influenzal instead of that of the pneumocaccus—the usual form. Influenzal instead of that of the pneumocaccus—the usual form.

Influxible (in-fluenzal Influenzal Influe the test or calyx adjoining the column or stem or, where that is absent, the single centrodorsal plate. The infrabasals and the basals together constitute the base of the crinoid in dicyclic forms. Sometimes termed underbasal.

Subspections cometricus abnormal specimen baying substitute that is absent, the single centrodorsal plate. The infrabasals and the basals together constitute the base of the crinoid in dicyclic forms. Sometimes termed underbasal.

Subspections cometricus abnormal specimen baying substitute that is abnormal specimen baying substitute that is absent, the single centrodorsal forms and the basal together constitute the base of the crinoid in dicyclic forms. Sometimes termed underbasals.

Also inferomarginal.

Sphærocrinus geometricus: abnormal specimen having the basal plate irregularly six-sided by reason of the flattening of the external angle of an infra-basal piece.

W. Baleson, Study of Variation, p. 437.

infrabass (in'fra-bas"), n. In organ-building, same as subbass.

infracalicular (in'frä-kā-lik'ū-lär), a. [L. infra, below, + NL. calicula + -ar3.] Below the calyx: as, the infracalicular buds in madreporarian corals.

Infracalicular buds of the polyps.

Philos. Trans. Roy. Soc. (London), 1896, ser. B, p. 165. infracentral (in-frä-sen'tral), a. Situated on the inferior, or ventral side, of the centrum.

The infracentral keel or spine of such vertebres as those of the turtles, rabbits, etc. Proc. Zool. Soc. London, 1891. infraclavicle (in-frä-klav'i-kl), n. [infra-+ clavicle.] A backward projecting part of the hypocoracoid in the hemibranchiate fishes, long supposed to be a separate bone and homologized with the interclavicle of certain reptiles; an interclavicle.

But it has also been shown by Starks, that such a thing as an infraclavicle does not exist even in the cickle back, the bone so-called being only a part of the coracoid; and as, in most of the sticklebacks, the pelvic bones join the latter, the resemblance between them and Lampris remains.

Annals and Mag. Nat. Hist., March, 1904, p. 173.

Annals and Mag. Nat. Hist., March, 1904, p. 173.

Below infranuclear (in-frä-no'dal), a. [L. infra, below, + nodus, node, + -all.] Situated below the node or joints of a stem.

infraconscious (in-fra-kon'shus), a. Below the level of consciousness; subconscious; subliminal.

Those impulses or irritations which are infra-dominant, . . . in the psychical sphere, . . . bring about infraconscious or extra-marginal psychical activities.

Buck, Med. Handbook, III. 260.

infraction, n. 3. An incomplete (greenstick)

II. n. A tributary stream, looked at from infradiaphragmatic (in'fra-di'a-frag-mat'ik), the point of view of the receiving stream.

a. [L. infra, below, + diaphragma(t-), dianfluenza, n. 1. Influenza is an acute infectious disphragm, + -ic.] Situated below the dia-

phragm, T-10.] Situated Science phragm.
infradominant (in-frä-dom'i-nant), a. In neurol., weaker than subdominant. Dominant excitations are said to correspond to focal mental processes; subdominant to marginal; infradominant to extramarginal or infraconscious processes.

Those impulses or irritations which are infra-dominant act, in the psychical sphere, below the threshold of consciousness.

Buck, Med. Handbook, III. 260.

infraglacial (in-frä-glā'shial), a. [L. infra, below, + glacies, ice, + -al¹.] Subglacial. J. Geikie, The Great Ice Age, p. 91. infragranitic (in'fra-gra-nit'ik), a. [L. infra, below, + granite + -ic.] In geol., situated below granite, or coming from lower depths than those occupied by granite: as, an infragranitic source of volcanic lavas.

infralabial (in-fra-la'bi-al), a. and n. I. a.

Lying below the lips.

II. n. One of the series of horny plates which cover the edge of the lower lip in reptiles such as snakes and lizards; a lower labial or inferior labial: correlated with *swpralabial.

The gastrosteges in one instance are 154, a common number in Sirtalis sirtalis, and the supralabials are sometimes seven, the normal number for Sirtalis sirtalis which also occasionally has nine infralabials, as occurs in two specimens of butleri. Biol. Bulletin, Nov., 1904, p. 295.

Infralias (in-frä-li'as), n. [L. infra, below, + E. Lias.] In geol., an extensive series of strata in the Tyrolese and Swiss Alps and in England lying between the Trias formation and the typical Lias above: more generally known as Rhætic beds, and in England as the Penarth beds. English geologists generally include this formation with the Trias, but on the Continent it is usually placed with the the Continent it is usually placed with the Lias

infralittoral (in-frä-lit'ō-ral), a. [L. infra, below, + littus (littor-), shore, + -all.] Noting that zone of marine deposits which extends from below low-water mark over bottoms which are the wasted remains of former conti-nents and are for the most part of relatively shallow depth, though they may lie at some hundreds of fathoms. These deposits are of terrigenous origin and are intermixed with remains of marine animals.

II. n. 1. One of the plates in the lower row of marginal plates in certain starfishes.—2. One of the horny plates which cover the under side of turtles, lying between the marginals and abdominal scutes.

inframolecular (in'frä-mō-lek'ū-lär), a. [L. infra, below,+ NL. molecula, molecule,+ -ar³.]

Lying within the molecule or within the sphere of molecular influence. Modern speculation concerning the constitution of matter regards the molecules as a more or loss complexes. the molecule as a more or less complex system the relations between the parts of which are said to be inframolecular.

All her [nature's] operations upon an ultra-stellar scale, all her activities at infra-molecular degrees of proximity, are kept from our view by that heavy veil of Isis which man's limited senses and his restricted intellectual powers cannot lift.

Smithsonian Rep., 1899, p. 218.

infranuclear (in-fra-nu'kle-ar), a. [L. infra, below, + nucleus, nucleus, + -ar³.] In histol., below the nucleus: said of the part of an epithelial cell beneath the nucleus.

infra-occipital (in'frä-ok-sip'i-tal), a. [L. infra, below, + E. occipital.] Situated below the occipital.—Infra-occipital sulcus. See *sulcus. infra-oral (in-frä-ö'ral), a. [L. infra, below,

+ os (or-), mouth, +-al1.] Situated below the mouth: used in ichthyology in describing any barbel or other appendage below the mouth. Jordan and Evermann, Amer. Food and Game

Jordan and Evermann, Amer. rood and trame Fishes, p. 536.

Infra-orbital neuralgia. Same as facial *neuralgia.
—Infra-orbital vacuity. See *vacuity.

infra-ordinary (in-fra-or'di-na-ri), a. [L. in-fra, below, + E. ordinary.] Below the ordinary; lower than ordinary; inferior.

infraperipheral (in'frë-pe-rif'e-ral), a. [L. infra, below, + E. periphery + -all.] Lying below the periphery: used in describing various organs of small invertebrates.

infrapharyngeal (in'fra-fa-rin'jē-al), n. [L. infra, below, + pharynx, pharynx, + -all.]

The lower pharyngeal, a bone situated behind the fourth gill-arch in fishes, usually bearing teeth. Starks, Synonymy of the Fish Skeleton, p. 519.

infrapsychical (in-fra-si'ki-kal), a. [L. infra, below, + E. psychical.] In neurol., below the level of the psychical or psychophysical; auto-

matic: as, infrapsychical cerebral centers.

Lancet, June 25, 1904, p. 1810.

infrapubian (in-frä-pu'bi-an), a. [L. infra, below, + pubes, pubes, + -an.] Same as subnuhic.

infrapubic (in-fra-pū'bik), a. Same as subpubic.

infraquantivalent (in'fra kwon-tiv'a lent), a. [infra- + quantivalent.] Below the normal quantivalence.

We must ascribe to the affect the attribute of so changing the normal quantivalence of ideas that certain ones become supraquantivalent, others infraquantivalent in comparison.

Alien. and Neurol., Feb., 1903, p. 51.

Infraspinous index. See *index.

infraterrene (in fra-te-ren'), a. [L. infra, below, + terra, earth, + -ene (cf. terrene).]
Subterraneous.

Subterraneous.

Infratongrian (in-fra-tong gri-an), a. [L. infra, below, + E. Tongrian.] Situated below the Tongrian: applied, in geol., to the earliest stage of the Oligocene Tertiary series in southern Europe.

infratrochanteric (in-frä-trö-kan-ter'ik),

[infra-+trochanter (in-ra-tro-kan-ter ik), a. [infra-+trochanter +-ic.] Situated below either of the trochanters. Syd. Soc. Lex. infratubal (in-frä-tū'bal), a. [L. infra, below, + tubus, tube, + -all.] Situated beneath a tube, especially the Fallopian or Eustachian tube. Buck, Med. Handbook, VII. 157.

infraturbinal (in-fra-ter'bi-nal), n. [infra-+turbin(ate) + -all.] The inferior turbinate bone.

infrequent, a. 3. In bot., distant; sparsely placed: said of punctures, glands, hairs, etc. infructescence (in-fruk-tes'ens), n. [L. in-2 + fructus, fruit, + -escence.] 1. The mature stage succeeding inflorescence: used concretely for the fruit with its immediate sup-

Spinifex squarrosus, a rigid bluish grass, with large globular inflorescences and infructescences.

A. F. W. Schimper (trans.), Plant-Geog., p. 181.

2. A collective fruit. Jackson, Glossary. infumba (in-föm'ba), n. [Swahili.] Same as *fumba.

Infundibular canal. See *canal1.

infus. An abbreviation of the Latin infusus, poured in. See infusion.

infuser, n. 2. A funnel-shaped vessel, usually of glass, employed to contain a fluid used in intravenous infusion.

infusile (in-fū'sil), a. [in-3 + fusile.] Incapable of fusing; not fusile. Coleridge.
infusion, n. 6. The introduction into a vein of a quantity of saline solution or other fluid for

therapeutic purposes.
infusionism (in-fu'zhon-izm), n. [infusion +
-ism.] The doctrine that the soul has existed
in a previous state and was infused or poured

into the body at conception or birth. Plato, Philo, Origen, and, in modern times, many philosophers and theologians, have held this view.

infusionist (in-fü'zhon-ist), n. [infusion + -ist.]

One who holds the doctrine of infusionism.

infusion-jar (in-fū'zhon-jār), n. A vessel, commonly a cylindrical jar of porcelain or earthenware, in which an infusion is prepared by pouring water or some other solvent over herbs, roots, etc., in order to extract their active principles. Frequently a false bottom or perforated partition serves to retain the insoluble residue, while the infusion may be poured off in a clear state.

infusion-pot (in-fū'zhon-pot), n. Same as *infusion-jar, except that an infusion-pot is usually of such material and so shaped as to ingravescence (in-gravescens), n. [L. ingra-

admit of being placed over a fire in order to keep the contents heated.

infusor (in-fū'sor), n. [G. infusor.] Same as infusorium. Parker and Haswell, Textbook of

infusorigen (in-fū-sō'ri-jen), n. [infusorium + -gen.] A gastrula-like phase in the development of rhombogenous Dicyemida.

infuze, v. t. and n. An amended spelling of in-

ingatherer (in'gawh'er-er), n. One who collects or gathers in; a harvester. F. D. Hun-F. D. Huntinaton.

inga-tree (ing'gg-trē), n. See Inga.
ingenital (in-jen'i-tal), a. [L. ingenitus, inborn, + -all.] Ingenerate; innate.
In all cases where, population not being homogeneous,
the different portions of a country... are variously col-In all cases where, population not being homogeneous, the different portions of a country . . . are variously coloured as by race, or religion, or history, or employments, the argument against centralisation acquires new force, in proportion as the central agent loses the power of sympathy and close adaptation to peculiar wants and wishes, and may lose also, where relations have not been altogether kindly, even the consciousness of this ingenital defect.

Gladstone, Irish Question, ii. 49.

inglaze (in'glāz), a. [in1 + glaze.] In ceram., marked by the incorporation of the decorative colors with the glaze. By printing or painting on the glaze with underglaze colors and then firing the ware a second time in the glost-kiln, an effect is produced which it is difficult to distinguish from real underglaze

which it is diment to distinguish from real undergiaze printing or painting.

R. A. Barber, Pottery and Porcelain of the U. S., p. 14.

inglutition (in-glö-tish'on), n. [L. in, in, + glutire, swallow, + -tion.] Same as degluti-

ingoting (ing'got-ing), n. [ingot +-ing¹.] The process of melting brass or bronze scrap and casting it into ingots to purify the metal by removing the dross from the surface while it is molten.

ingot-iron (ing'got-i'ern), n. Mild steel; a steel, low in carbon, which cannot be tempered, made either by the Bessemer or the openhearth process, and poured in a fluid state into molds after leaving the producing-vessel. See ingot-metal.

Owing to the method of its production it might in truth be called a soft steel with a very small percentage of combined carbon. The best description of this material is conveyed by the German term 'Flusselsen," but its nearest British equivalent is "ingot-iron." Encyc. Brit., XXVIII. 118.

ingot-metal (ing'got-met'al), n. A general name for iron or steel which is poured into molds in a fluid state after the completion of the manufacturing process. If too low in carbon to harden or temper it is ingot-iron; if it has carbon enough to temper and harden it is ingot-steel.

Slagless or "Ingot-metal" Series.

Encyc. Brit., XXIX. 571.

ingot-pitch (ing'got-pich), n. The pitch at which ingots are east; noting a variety of tough-pitch copper in which the poling for the removal of dissolved oxygen has not been carried on as long as it has in the wire-bar carried on as long as it has in the wire-bar pitch variety. The longer the poling is continued the freer will the copper be from oxygen. See *moer-pole. For ingots or cakes the amount of oxygen may be greater than for copper which is to be cast into wire-bars, which are rolled into rods and then drawn into wire for electrical conductors. As impurities reduce the conductivity of copper for electricity very greatly, the oxygen in such cases must be low. Electrochem. Industry, March, 1904, p. 90.

ingot-saw (ing'got-sa), n. A saw especially constructed for sawing hot ingots. These saws are made several feet in diameter and are run at a very high speed. They have a fusing action at the cutting edge.

cast in an ingot when it comes from the furnace. It may be Bessemer, open-hearth, or crucible-steel, and must have carbon or other hardness in sufficient percentage to exhibit the properties of hardening and tempering. See *ingot-metal.

Half-hard and High-Carbon Steels, sometimes called "ingot-steel." They may be either Bessemer, open-hearth, or crucible steel. Malleable cast iron also often Eneye. Brit., XXIX. 571. ingot-steel (ing'got-stel), n. Steel which is

beings here. Encyc. Brit., AA1A. 571.

Ingrain colors, in modern dyeing, colors which are produced by definite chemical change of dyes already attached to the yarn or cloth: thus, cotton dyed yellow with primulin, by exposure to the diazotizing action of nitrous acid and afterward to an alkaline solution of β -naphthol, acquires a deep-red color.

Ingrassial (in-gras'i-al), a. and n. I. a. Same as Ingrassian.

II. n. In ichth., a bone in front of the prootic in the cranium; the alisphenoid of Parker. Starks, Synonymy of the Fish Skeleton, p.

ingratiatory (in-grā'shi-ā-tō-ri), a. [ingratiate +-ory.] Insinuating; serving to render acceptable or to ingratiate one with another.

vescere, grow heavy (<in-, in, +gravis, heavy), +-ence.] The process of becoming more severe; specifically, the period of increase of a fever.

ingress, v. i. 2. In astrol., to transit the place which any of the four moderators has reached by direction. Zadkiel, Gram. of Astrol., ii. 17. ingrown (in'gron), a. [in 1 + grown.] 1. Grown from within; innate: as, "Art with Language lived ingrown," L. Morris.—2. Grown inward: as, an ingrown nail.

inguino-abdominal (ing gwi-nō-ab-dom' i-nal), a. [L. inguen, groin, + abdomen (-min-), abdomen, +-all.] Relating to the groin and the abdomen.

inguinocrural (ing'gwi-nō-krö'ral), a. [L. in-guen, groin, + crus (crur-), leg, + -all.] Relating to the groin and the thigh.

inguinocutaneous (ing'gwi-nō-kū-tā'nē-us), a.
[L. inguen, groin, + cutaneus, of the skin, +
-ous.] Relating to the groin and the skin of the adjacent portion of the thigh: noting a branch of the first lumbar nerve.

inguinoscrotal (ing'gwi-nō-skrō'tal), a. [L. inguen, groin, + scrotum, scrotum, + all.] Relating to the groin and the scrotum. inhalant, a. II. n. That which is inhaled.

inhang (in'hang), n. [in1 + hang.] The tum-bling home of the ship's bulwarks; the leaning inboard of the bulwarks from the perpendicular: opposed to wall-side.

I... settled myself for the night, being very weary, under the inhang of [the ship's] heavy bulging side.

T. A. Janvier, Sargasso Sea, xxiii.

inhaul (in'hâl), n. $[in^1 + haul$.] A line for bringing a spar inboard: applied to the brails of a spanker, in distinction from the *outhaul*, which spreads the sail by hauling the head out to the gaff-end.

inherit, v. t.— Inherited drainage. See *drainage. inheritance, n.—Alternative inheritance, the transmission to descendants of the characteristics of one parent by certain individuals, and of those of the other parent by others.

It must, however, be remembered that what is accepted as evidence of alternative inheritance, is not a proof that the dominance of either allelomorph is imperfect. Bateson and Saunders, Rep. Evol. Com. Roy. Soc., 1902,

Ancestral inheritance, the contribution of each ancestor to the characteristics of descendant, (a) According to Galton's law of ancestral inheritance, the two parents contribute between them, on the average, one half of each inherited faculty, each of them contributing one quarter of it; the four grandparents contribute between them one quarter, or each of them one sixteenth; and so on. (b) According to Parson's law, the contribution of the grandparents and great-grandparents is greater than Galton's law calls for, and the difference increases rapidly for more remote generations. Parental characteristics (b) According to Pearson's law, the contribution of the grandparents and great-grandparents is greater than Galton's law calls for, and the difference increases rapidly for more remote generationa. Parental characteristics are sometimes strongly hereditary, sometimes slightly or not at all so; and while Galton and Pearson assume that these differences will, on the average, balance each other, the facts of inheritance show that this is not the case, and that the statistical laws, while no doubt useful for statistical purposes, are compiled from data some of which are data of inheritance and some not, and that they are of little value to the breeder who deals with individuals, or to the student of inheritance who seeks to distinguish hereditary from non-hereditary characters. So far as a parent resembles collateral relatives, such as brothers, sisters, and cousins, the resemblances are often transmitted to descendants with nearly or quite four times the frequency which these laws require. (c) Mendel's law of ancestral inheritance. In 1865 Gregor Johann Mendel (1822-84), an Austrian priest, published an account of experiments which he had undertaken for the purpose of determining the numerical value of parental characters in inheritance. Having obtained seed from the cross-breeding of two races or varieties of the garden pea which differed from each other in some one characteristic (for example, those with round and those with wrinkled seeds), he found that the cross-breed plants raised from these seeds manifested only one of the characteristics (roundness of seed, for example), which he called the dominant (D), to the total or almost total exclusion of the other (irregularity of seed, for example), which he called recessive (R). The second generation, produced from the cross-bred plants which were allowed to fertilize themselves, pure and, if allowed to fertilize themselves, produced the dominants to one recessive. The recessives in the ratio, for each 100, of 25 dominants of pure blood, 25 recessive generation o four sorts of germ-cells in the reproductive organs of the cross-bred individuals — dominant ova, recessive onactions of the cross-bred individuals — dominant ova, recessive onactions of the descendants are born from dominant one quarter of the descendants are born from dominant ova fertilized by dominant male cells and are pure dominants; one quarter are born from recessive ova fertilized by recessive male cells, and are pure recessives; and one half are born from the union of an ovum of one sort with a male cell of the other sort, and are able to produce pure dominants, pure recessives, and cross-bred descendants in the original ratio. — Biparental inheritance, inheritance considered in its relation to amphigonic or bisexual reproduction.—Blended inheritance, inheritance series of combinations of parental characters. See quotation under **blend!, v. i, s. — Crossed inheritance, the manifestation by descendants of the offspring of features of resemblance to one parent to the partial or complete exclusion of those of the other.

On another occasion, or in other offspring of one and

On another occasion, or in other offspring of one and the same mating, it may not be prepotent, or even the other parent may be prepotent. Such prepotency might exhibit itself in "atternative" or "exclusive" inheritance. Biometrika, 1903, p. 390

Material basis of inheritance, that which is handed down from parent to offspring and in the transmission of which reproduction consists. Most authorities are now agreed that the material basis of inheritance is to be identified with the chromatin of the germ-cells. See substance of *heredity.— Mossaic inheritance. Same as particulate *hinberitance.— Particulate inheritance, the theory that the descendant inherits material particles from the parts of the bodies of a number of ancestors. See ancestral *hinberitance.— Use-inheritance, the hypothetical transmission to descendants of a parental change which is the result of its own activity; the inheritance of an acquired character.

Darwin seems always to have regarded the direct

Darwin seems always to have regarded the direct action, of the environment and use and disuse as, at the most, subsidiary causes of variation; but Mr. Herbert Spencer and his followers regard 'use-inheritance' as an all-important factor in evolution; while Cope and his followers in America, by a mixture of 'use-inheritance' (Kinetogenesis) and Lamarck's neck-stretching theory (Archesthetism), apparently see their way to account for the evolution of animals with but little help from natural selection.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 667.

inhibition, n. 4. In psychol., the supposed restraint or cancelation of a mental process by other concurrent mental processes.

by other concurrent mental processes.

The second law deals with inhibition or arrest: "Every psychical phenomenon tends to prevent the production or development, or to cause the disappearance of psychical phenomena which cannot be united to itself according to the law of systematic association, that is to say, which cannot be united with it for a common end" (Paulhan).

John Adams, Herbartian Psychol. Applied to [Education, p. 76.

Coefficient of inhibition. See *coefficient.

inhomogeneous (in'hō-mō-jē'nē-us), a. Not homogeneous.

+homogeneous.] Not homogeneous. Jour. Phys. Chem., June, 1904, p. 425.
inhumanize (in-hū'man-īz), v. t.; pret. and pp. inhumanized, ppr. inhumanizing. [inhuman + -ize.] To make inhuman.

-ize.] To make inhuman.
iniac (in'i-ak), a. [ini-on + -ac.] Same as inial.
iniad (in'i-ad), a. [ini-on + -ad³.] Toward

inidoneity (in-ī-dō-nē'i-ti), n. [inidone-ous + -ity.] The quality of unfitness. Church Times, Jan. 19, 1894. N. E. D. inidoneous (in-ī-dō'nē-us), a. [in-3 + idoneous.]

Unit. Blount, Glossographia.

inioglabellar (in"i-ō-glā-bel'ār), a. [inion glabellum + -ar³.] Same as *glabello-inial. [inion 4

produce irritation.
init. An abbreviation of the Latin initio, in

the beginning.
initial, n. 4. In steam-engines, an abbreviation of initial *pressure (which see).

initialist (i-nish' al-ist), n. [initial + -ist.]
One who is known by his initials and not by his full name. Blackwood's Mag., XIV. 438. N. E. D.

initialize (i-nish'al-iz), v.; pret. and pp. initial-ized, ppr. initializing. [initial+-ize.] I. trans.

To designate by initials instead of by the full name.

II. intrans. To use an initial or initials (instead of one's full name).

Nobody had successfully initialized till L. E. L. arose. New Monthly Mag., L. 78. N. E. D.

initiary (i-nish'i-ā-ri), a. [L. initium, beginning, +-aryl.] Same as initial.
initiative, n. 3. Specifically, the right to propose legislation, supplementary to the

referendum. In Switzerland the initiative is in the form of a petition which is signed by a certain number of on the voters and which demands a popular vote upon a measure. in loc.

voters and which demands a popular vote upon a measure.

Besides the former "facultative Referendum" in certain cases, and the "Initiative" at the demand of 1000 citizens in case of amendments to the cantonal constitution, there is now also an "Initiative" in case of Bills, to be exercised at the demand of 800 citizens. Encyc. Brit., XXXIII 948.

initionary (i-nish'on-ā-ri), a. [inition +-ary1.]

Relating to inition, especially to the beginning of or entrance into college life.

initis (i-ni'tis), n. [NL., \(\text{Gr. } \(\text{lc} \(\text{iv-} \)), fiber, +

-ilis.] Inflammation of the muscular or fibrous tissues.

An abbreviation of the Latin injectio, an injection

injectable (in-jek'ta-bl), a. [inject + -able.] Capable of receiving an injection .- 2.

1. Capable of receiving an injection.—2. Capable of being injected.
injection, n. 7. In geol., the penetration of a rock by a molten magma. Van Hise, U. S. Geol. Surv., Monographs, XLVII. 646.—Lit-par-lit [F. 'bed-by-bed] injection or saturation, in geol., the injection of molten rock between the layers of a stratified one in such a manner that the two are intimately commingled. Geirie, Text-book of Geology, p. 728. injection, n.

injector-condenser (in-jek'tor-kon-den'sèr),

n. Same as injection-condenser.

injector-furnace (in-jek'tor-fer'nās), n. See *furnace.

injunct (in-jungkt'), v. t. [A back-formation from injunction.] Same as enjoin, 3. [Colloq. or humorous.]

injunction, n.—Perpetual injunction. Same as permanent injunction (which see, under injunction).
injunctive (in-jungk'tiv), a. [injunction) +
-ive.] Having the force of an injunction;

-ive.] Having the force of an injunction; enjoining.—Injunctive relief, in law, the application of the equitable remedy of injunction.

injury, n.—Gurrent of injury. See *current!.

ink!, n.—Solid ink, pigment of any color in its dry or solid state, as in a cake of India ink. It is often preferred by lithographers for its adaptability to rubbed tints and imitated pastel work.—Vanadium ink, a writing-fluid prepared by adding gallic acid to an aqueous solution of ammonium metavanadate alightly thickened with gum. Thorpe, Dict. Applied Chem., III. 886.

nk¹, v. t.—**To ink in**, in *tech. drawing*, to trace over and shade (a pencil drawing) with ink. The pen for this purpose is called an *inking-in* pen.

II. intrans.—To ink up, to carefully apply ink to pe preliminary to its first impression. This is begun with ate, or low color, and is gradually increased after successive trials.

ink-cap (ingk'kap), n. A mushroom of the genus Coprinus. See ink-mushroom and Cop-

ink-duct, n. 2. In cephalopods, the duct through which the ink is discharged.

through which the link is discharged. inkeer (in-kar'), v. t. [D. inkeeren, turn in, $\langle in$, in, + keeren (= $\langle x$. kehren), turn: see $char^{-1}$, v.]

1. To turn (the water of a stream) into a field for purposes of irrigation. —2. To corral for purposes of irrigation. - (cattle).

inkle-weaver (ing'kl-we'ver), n. [inkle2 + weaver.] A weaver of the strong, coarse tape known as inkle. See inkle?.—As (or so) thick as inkle-weavers, very intimate, or friendly.

When tapes had to be hand-woven, a single tape to a loom, the weavers had naturally to work very close together, and hence the common saying to express crowding together, so thick as sinkle-weavers. Eng. Dial. Soc. in-knee (in'ne), n. Same as knock-knee. ink-slice (ingk'slis), n. Same as slice, 3 (c) (1).

cerebrum.

Science, Oct. 30, 1903, p. 554.

inirritant (in-ir'i-tant), a. and n. [in-3 + ir]

in That does not cause irritation:

I. a. That which does not irritate; specifically, a therapeutic agent which does not produce irritation.

In That which does not irritate; specifically, a therapeutic agent which does not irritate.

Ink-slice (ingk'slis), n. Same as slice, 3 (c) (1).

ink-trough (ingk'trôf), n. Same as inking-trough.

ink-value (ingk'val'ū), n. The properly expressed light and shade of a picture as produced.

inlawry (in'là-ri), n. [inlaw + -ry.] The state of restoration to the protection of the law: the opposite of outlawry.

inlay, v. t.- Inlaid tile. Same as mosaic *tile (which

Inlay casting. See *casting.

inlaying, n. 2. In bookbinding, the neat insertion (with proper cutting, shaving, and pasting) of a leaf or print in a larger leaf, with pasting) of a leaf or print in a larger leaf, when intent to give the inlaid matter greater security and a wider margin.—3. In printing, the insertion of the overlay made for an illustration between the sheets of the printing surface or between the plate and its support.

inleak, n. 2. The leaking of a gas or liquid into an inclosed space or pipe.

inlet-valve (in'let-valv), n. Any valve, opening from without inward, through which a fluid may pass into a vessel; specifically, in motors, a valve through which motor fluid enters a

An abbreviation of the Latin in limine, on the threshold.

innascible (i-nas'i-bl), a. [LL. innascibilis, \(\) in- neg. + nascibilis, that may be born, \(\) nasci, be born.] Not subject to birth; selfexistént.

innate, a. 3. In biol., characteristic of a species or common to the individuals of a species, or or common to the individuals of a species, or alike in parent and in offspring; hereditary; constitutional; congenital. So far as the development of an individual organism from the egg is considered as characteristic of its kind, it is termed innate or inherent; so far as it is considered as taking place in an individual external environment with which it is in continual reciprocal interaction, it is termed adventitious or induced: the contrast or distinction being in the mind of the observer rather than in the facts of embryology.

The development of any normal, so-called "innate"

the observer rather than in the facts of embryology.

The development of any normal, so-called "innate" character, such as, say, the assumption of the normal human shape and relations of the frontal bone, requires the co-operation of many factors external to the developing embryo, and the absence of abnormal distorting factors.

Breye. Brit., XXIX. 259.

innaturate (i-nā'tūr-āt), v. t.; pret. and pp. innaturated, ppr. innaturating. [in-2 + nature + -ate².] To imbue the nature of (a being) with something. [Rare.]

If those . . . who . . . crush the young shootings of the heart, and blight its growth . . . would but innaturate it with their poison and make it barren for ever!

Froude, Nemesis, p. 167. N. E. D.

inneity (i-nē'i-ti), n. [Irreg. (inn(ate) + c-ity.] Innateness; the quality of being innate, inborn, or congenital. Ribot (trans.), Psychol. of Emotions, p. 237.

of Emotions, p. 251.

inner¹, a.—Inner anhydrid, a compound formed by
the elimination of water and the formation of a ring of
atoms from one molecule of the compound. It is contrasted with ordinary anhydrids, which are formed from
two molecules of the compound.

inner² (in'er), n. [in¹, v. t., + -er¹.] One
who takes in or reclaims land from water or
massl. See *tinning 4*

marsh. See *inning, 4.
inning, n. 4. The process of taking in; specifically, the reclaiming of marshy land by draining and banking and fitting it for bearing crops; also the land so reclaimed.—5. The act or process of getting in, as crops; harvesting. innocence, n. 6. (b) A pretty American scro-phulariaceous plant, Collinsia verna, the flowers of which have the lower lip blue and the upper purple or nearly white.
innocent, a. 8. In pathol., benign; not malig-

nant.—Innocent ball. See *ball1.
Innominate index. See *index.

innovational (in-o-vā'shon-al), a. [innovation + -al¹.] Bringing in new forms or methods; introducing new things; pertaining to innovation.

innovatory (in'ō-vā-tō-ri), a. [innovate + -ory.] That innovates or has a tendency to innovate: as, innovatory ideas in politics.

innutrient (i-nū'tri-ent), a. [in-3 + nutrient.] Not nutritious. Biol. Bulletin, Nov., 1904, p. 305.

Not nutritious. Biol. Bulletin, Nov., 1502, p. 200. inoculation, m.—Curative inoculation, the injection of an antiserum for curative purposes; for example, in the treatment of diphtheria, tetanus, and snake-poisoning, inoculation with the corresponding antisera.—Jennerian inoculation, vaccination.—Protective inoculation. (a) The injection of an antiserum for protective purposes, that is, to prevent disease, as diphtheria. (b) Vaccination against disease, as against smallpox, anthrax, rinderpest, and to some extent against typhoid fever, plague. dysentery, etc. plague, dysentery, etc.

inogenesis (in-ō-jen'e-sis), n. [Gr. ic (iν-), fiber, + γένεσμ, production.] Production of fibrous tissue.

inolith (in' $\bar{0}$ -lith), n. [Gr. i_{ζ} (iv-), fiber, + $\lambda(\theta)$ or, stone.] A circumscribed calcareous deposit in fibrous tissue.

inoma (i-nō'mä), n. [Gr. lc (lv-), fiber, +-oma.]
A fibrous tumor; scirrhus.

inominous (in-om'i-nus), a. [in-3 + ominous.] Ill-omened; unfortunate.

As a kind of moral provision for such an inominous young person, Mr. Sheddon set apart a small property.

W. Mackintosh, Life of J. Sheddon, p. 32. N. E. D.

inone (in-wun'), v. t.; pret. and pp. inoned, ppr. inoneing. [in1 + one. Compare the earlier atone, v.] To unite; make one (with).

The Prophet uses the two imperatives, Seek Me and live, inoneing both man's duty and his reward.

Pusey, Minor Prophets, p. 191.

inopectic (in-ō-pek'tik), a. [Gr. ls (iv-), fiber,

+ πηκτός, fastened, + -ic.] Of or relating to inopexia; affected with inopexia. inopexia (in-ō-pek'si-ā), n. [NL., (Gr. iς (iν-), fiber. + πηξάς, fastening.] A tendency to spontaneous coagulation of blood. inopportunism (in-op-or-tū'nizm), n. [inopportune + -ism.] The quality of being inopportune; inopportune action; specifically, the policy of the inopportunists. policy of the inopportunists.

poncy of the inopportunists.

inopportunist (in-op-or-tū'nist), n. and a. [in-opportunist (in-op-or-tū'nist), n. and a. [in-opportunist or opposition party; one who disapproves of a certain policy on the ground of its inopportuneness; specifically, one who was opposed to the declaration of the dogma of papal infallibility at the Vatican Council in 1870, on the ground that its publication was inopportune.

Sci. Amer. Sup., July 4, 1903, p. 22992.

Sci. Amer. Sup., July 4, 1903, p. 22992.

inotropism (i-not'rō-pizm), n. [inotrop(ic) + inscript (in'skript), n. [L. inscriptus, pp.: see inscribe.] 1. An inscription.—2. In geom., a muscle.

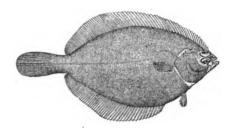
inscribt.] 1. An inscription.—2. In geom., a muscle.

inscribt.] 1. An inscription.—8. In geom., the inscribtion, n. 8. In geom., the inscribtion, n. 8. In geom., the inscribed.—9. A tendinous line interrupting inscribed.—9. A tendinous line interrupting in the abdominal muscles. was inopportune.

II. a. Belonging to the inopportunists.

His [Leo XIII.'s] similar recognition of two of the most distinguished "inopportunist" members of the Vatican Council, Haynald, archbishop of Kalocsa, and Prince Fürstenberg, archbishop of Olmütz, was even more note-worthy Encyc. Brit., XXX. 197.

Inopsetta (in-op-set's), n. [NL., $\langle Gr. i_C(i\nu) \rangle$, strength, $+\psi \bar{\eta} \tau \tau a$, flounder.] A genus of flounders found off the Pacific coast of the United States United States.



Inopsetta ischyra (From Bulletin 47, U. S. Nat. Museum.)

imorderly (in-ôr'der-li), a. Not orderly; dis-

inorganography (in-ôr-ga-nog'ra-fi), n. [L. in- neg. + Gr. δργανον, organ, + -γραφία, ζ γράφειν, write.] The scientific discussion of inorganic things: a term not in general use.
inoriginate (in-ō-rij'i-nāt), a. [L. in- priv.
+ NL. originatus, pp. of originare, originate:
see originate, v.] Not originated; self-exis-

see originate, v.] Not originated; self-existent; having no beginning.
inoscleroma ($\bar{i}n$ - \bar{o} -skl \bar{e} - $r\bar{o}$ 'ma), n. [NL., \langle Gr. l_{ς} ($i\nu$ -), fiber, $+ \sigma \kappa \lambda \dot{\eta} \rho \omega \mu a$, a hardened part: see scleroma.] Hardening of the fibrous tis-

inosclerosis (in'ō-sklē-rō'sis), n. [NL., ⟨Gr. iς (iν-), fiber, + σκλήρωσις, a hardening, induration.] Fibrous induration or sclerosis.

inosin (in'ō-sin), n. [inos(ite) + -in².] An incorrect name for inosite.

inosinate (in'ō-si-nāt), n. [inosin + -atel.]
A salt of inosinic acid.

the contractile power of muscular tissue. See

The movement of a muscle depends on the simultaneous operation of three functional properties of its constituent elements, i. e., excitability, conductibility and contractibility. The author [T. W. Engelmann] describes as bathmotropic (from $\beta k \theta \mu o s$ = threshold) such influences as affect excitability, as dromotropic, such as interfere with conductibility, and as inotropic such as lessen or destroy contractibility.

Sci. Amer. Sup., July 4, 1903, p. 22902.

inoxidize (in-ok'si-dīz), v. t.; pret. and pp. in-oxidized, ppr. inoxidizing. To protect from oxidation: an ill-formed word and one not in general use.

in petto.—Cardinal in petto. See *cardinal. in-player (in'pla'er), n. In rackets, the server; the man in.

The epithelium lining the mouth becomes inpushed into the deeper layers, where teeth are to be formed.

J. S. Kingsley, Vert. Zool., p. 19. 2. Specifically, the power which is

nput, n. 2. Specifically, the power which is received by any machine. It includes the power actually required to do the work performed by the machine and the power necessary to run the machine itself.

The useful return or "output" at the terminals of a large machine may amount to as much as 96 per cent. of the mechanical energy which forms the "input."

Energy. Brit., XXVII. 574.

3. The amount of food material introduced into the body. Philos. Trans. Roy. Soc. (London), 1892, ser. B, p. 228.

Inquartate (in-kwar'tat), v. t.; pret. and pp. inquartated, ppr. inquartating. In metal., to add silver to (an alloy of silver and gold) in order to give (it) the proportion required for the process of parting, that is, one part of gold to about three parts of silver. See quartation. Phillips and Bauerman, Elements of Metallurgy, p. 815.

Inquest, n.—Sheriff's inquest. See sherif's inquest, insectiferous amber; an insectiferous log.

inorderly (in-ôr'dêr-li), aav. In a unsolution manner.
inorganism (in-ôr'gan-izm), n. [in-3 + organ-ism.] An object which is not an organism.
[Rare.] The state or habit of being inquiline; specifically, in zoöl., the habit of living in the nest or home of another, but not as a parasite.

[See commensal, 2.

[Rare.]

It is difficult . . . to avoid the theoretical conclusion that . . . the earliest primitive organisms [were] necessarily more like inorganisms.

Hyatt, Biol. Lectures, 1899, p. 128

Hyatt, Biol. Lectures, 1899, p. 128

[T]

Inquisitionist (in-kwi-zish'on-ist), n. [inquisition tion + -ist.] 1. One who makes inquisition tion + -ist.] or inquiry; an inquisitive questioner.—2. An inquisitor; one who upholds the practices of

the Inquisition.
inquisitiv, a. A simplified spelling of inquis-

inquisitrix (in-kwiz'i-triks), n. [NL. *inquisitrix, fem. of L. inquisitor: see inquisitor.] A female inquisitor.

in-radius (in'rā'di-us), n.; pl. in-radii (-ī). [in' + radius.] The radius of an inscribed circle. inrun (in'run), n. $[in^1 + run^1]$ 1. A running in; an inrush; an influx: as, an inrun of the sea.—2. A place of inrunning.

inrunning (in'run'ing), n. 1. Same as *inrun.

—2. Inflowing.
ins. An abbreviation (a) of inspector; (b) of

insurance

A salt of inosinic acid.

A salt of inosinic acid.

inosinic (in-ō-sin'ik), a. [inosin + -ic.] Noting an acid, an amorphous compound, C₁₀H₁₃O₈ N₄P, obtained from the flesh of certain animals. Some of its salts are crystalline.

inosituria (in'ō-si-tū'ri-ā), n. [inosite + Gr. oὐρον, urine.] Same as *inosuria.

inosuria (in-ō-sū'ri-ā), n. [NL., ⟨inos(ite) + Gr. oὐρον, urine.] The excretion of inosite or muscle-sugar in the urine.

inotagma (in-ō tag'mā), n.; pl. inotagmata (-ma-tā). [NL., ⟨Gr. ic (iν-), muscle, + τάγμα, order, constitution.] One of the hypothetic ultimate elements of living protoplasm: similar to *plasome, *biophore, physiological *unit, etc. Engelmann.

In other cases the assumption of invisible protoplasmic units has been inspired by a desire either to explain the general vital and assimilative powers of protoplasm or the mechanism of some one function as the inotagmas of Englemann, assumed to be the agents of contractility.

Encyc. Brit., XXXII. 41.

inotropic (īn-ō-trop'ik), a. [Gr. ic (iν-), muscle, + -τροπος, ⟨ τρέπειν, turn, + -ic.] Impairing S.—41

inotropic (īn-ō-trop'ik), a. [Gr. ic (iν-), muscle, + -τροπος, ⟨ τρέπειν, turn, + -ic.] Impairing S.—41

disease caused by the prolonged action of some poison, such as lead or alcohol.

insanoid (in-sa'noid), a. [insane + -oid.] Resembling insanity; also nearly insane: neuropathic. Anen. and Neurol., Aug., 1907, p. 397. patnic. Anen. and Neurot., Aug., 1801, p. 801.
insapiency (in-8ā'pi-en-si), n. [insapien(t) +
-cy.] Lack of sepiency, wisdom, or sagacity.
insapient (in-sā'pi-ent), a. [in-3 + sapient.
Compare insipient.] Lacking sepiency or wis-

inscription, n. 8. In geom., the inscribing of one figure in another; also, the state of being so inscribed.—9. A tendinous line interrupting the fleshy fibers of a muscle: seen especially in the abdominal muscles.

inscriptionist (in-skrip'shon-ist), n. [inscription+-ist.] An inscriber. F. Hall.
inscriptured (in-skrip'tūrd), a. [in-2 + scripture+-ed¹.] Having scriptures or inscriptions upon it, as a stone; inscribed.

insect, n.—Lace-winged insects, insects of the order Neuroptera.

insect (in'sekt), v. i. [insect, n.] To seek or catch insects, as a bird does.

We discovered the bird . . . insecting in the top of a newly-fallen hemlock.

J. Burroughs, Locusts and Wild Honey, p. 203.

insectan (in-sek'tan), a. [Insecta + -an.] Of or pertaining to insects or the Insecta. insect-beds (in'sekt-bedz), n. pl. See *bed1. insect-box (in'sekt-boks), n. A box used in collecting insects.

insect-flowers (in'sekt-flou'erz), n. pl. The heads of half-expanded flowers of the plants from which insect-powder is made; the pyrethri flores of pharmacy. Buck, Med. Handbook, V. 151.

as, insectiferous amber; an insectiferous log. insectine (in'sek-tin), a. [insect + -ine¹.] Pertaining to or characteristic of insects.

insection (in-sek'shon), n. [L. *insectio(n-), \(\) insecare, cut into: see insect. A cutting up; division into segments; also, a segment or section.

insectologist (in-sek-tol'ō-jist), n. [*insectolog-y + -ist.] One who studies insects; an entomologist.

insenescence (in-sē-nes'ens), n. [L. insenescere, grow old (< in- + senescere, grow old, < senex, old), + -ence.] The process of growing old: aging

insenescible (in-sē-nes'i-bl), a. [LL. insenescibilis, < in- neg. + *senescibilis, < senescere, grow old.] Not capable of growing old.

insentience (in-sen'shi-ens), n. [insentien(t) + -ce.] Unconsciousness; lack of sensation.

+ -ce.] F. Hall.

insequent² (in-se'kwent), a. [L. in-, not, + sequens (-ent-), following.] In phys. geog., not following any manifest control: said of irregular streams, in contrast to consequent, obsequent, and other systematic classes of streams. insertable (in-ser ta-bl), a. [insert + -able.]
That may be inserted.

insertion-joint (in-ser'shon-joint), n. A packed joint; a joint rendered steam- or water-tight by the insertion of a disk or ring of packing. insertion-plate (in-ser'shon-plāt), n. In the polyplacophorous Mollusca, or chitons, a projection of the inner or porcellanous sheil-layer (articulamentum) hered the properties of the inner or porcellanous sheil-layer (articulamentum) beyond the margin of the plates into the girdle or flexible band which holds the plates together. Insertion-plates serve the function of binding the valves firmly

to the girdle.

inset, v. t. 2. To add (a leaf or leaves) within the folded sections of a book, or between the sections, as a map, a printed illustration, or an advertisement.

inset, n. 1. (b) A small picture or diagram inserted within the border of a larger one.

insetting (in'set'ing), n. In binding, the placing of a leaf or leaves (as maps, illustrations, or advertisements) between or within the sections of a printed book, magazine, etc.

Ins. Gen. An abbreviation of inspector-general. inshining (in'shi'ning), n. The act or fact of shining in; permeating with light.

When the soul feels the Divine *inshining*, all that is no-le in it rises efflorescent and victorious. H. W. Bescher, Yale Lectures, 2d ser., iii. 58. N. E. D.

inship (in'ship), adv. On board; on the ship;

embarked.

'Can't be too hard on a Home draf', 'sez he; 'the great thing is to get thim inship.'

R. Kipling, The Big Drunk Draf', p. 59.

Inshoot (in'shöt), n. The act of shooting or moving rapidly inward, as a base-ball that is pitched with a curve. Sci. Amer., July 16, 1904, p. 42.

Inside, n. 4. In field hockey, the position being the property of the property inshoot (in'shöt), n. The act of shooting or moving rapidly inward, as a base-ball that is pitched with a curve. Sci. Amer., July 16, 1904,

inside, n. 4. In field hockey, the position between the center and the wings.
inside-fired (in'sīd-fīrd), a. Internally fired; having the fire-box surrounded, or nearly so, with that which it is desired to heat, as is the fire-box of a locomotive-boiler.

insidiosity (in-sid-i-os'i-ti), n. [L. insidiosus, insidious, +.-ity.] Insidiousness.
insink (in'singk), v. i. In embryol., to become invaginated or folded in, like the saucer-shaped depression which forms the otocyst in embryo vertebrates. Buck, Med. Handbook, III. 823.

insistency (in-sis'ten-si), n. Same as insis-

institious (in-si-tish'us), a. [L. institicius, < insitus, grafted, pp. of inserere, insert, ingraft.]
Ingrafted; inserted; not natural to the place.

There are other passages in the poem [Paradise Lost] which have the air of being [printed] institute in the place where they stand. The lines in Book iv, now in question, may reasonably he referred to 1640-42.

Mark Pattison, Milton, xili. p. 167.

insolation, n.—Asphyxial insolation, exhaustion due to heat. See sunstroke.—Pyrexial insolation, thermic fever. See sunstroke and fever1.

insole-machine (in'sol-ma-shen"), n. In shoe-

insolvency, n.— Open insolvency, such inability to pay debts as will enable creditors to proceed against the sureties, guarantors, or indorsers of the debtor without first proceeding against the debtor himself.

insomniac (in-som'ni-ak), n. One who suffers from insomnia.

insonorous (in-sō-nō'rus), a. [in-3 + sono-rous.] Not sonorous or resonant. Insp. An abbreviation of inspector.

inspeak (in-spēk'), v. t.; pret. inspoke (inspake archaic or poetical), pp. inspoken, ppr. inspak-instead.

into: as. to inspeak hope in the soul.

inspection, n. 2. A district subject to official inspection.

inspection.

In France... the forests of the country are first diinstep-brake (in'step-brāk), n. Same as
vided into cantonments and then into about 500 inspections.

Pall Mall Gazette, April 4, 1888.
instigant (in'sti-gant), n. [L. instigans (-ant-).

inspectorate, n. 3. The position of an inspector; the duty or work of an inspector.
inspectorate-general (in-spek'tor-āt-jen'e-ral), n. The office, position, and duties of an inspector-general; the staff of an inspector-general; general

inspirationalist (in-spi-rā'shon-al-ist), n. [in-spirational + -ist.] One who inspires, or who aims to inspire, others; one whose beliefs tend to inspire others; also, one who professes to speak or act under spiritual guidance.

inspirationally (in-spi-rā'shon-al-i), adv. With

inspiration; in a manner tending to infuse inspiration.

inspirator, n. 2. An apparatus for inhaling

or drawing in air, gas, or vapor.

inspirometer (in-spi-rom'e-ter), n. [Irreg. (
inspirare, inspire, + Gr. μέτρον, measure.] An
instrument for measuring the amount of air inspired.

inspissant (in-spis'ant), a. and n. [NL. "in-spissans (-ant-), ppr. of "inspissare, thicken, \(\) in- + spissus, thick: see inspissate. I. a. Inspissating; thickening.

II. n. That which thickens; a remedy which

causes a thickening or concentration of the fluids of the body.

inspissator (in spi-sā-tor), n. [NL.] A double-walled copper vessel containing water and employed in evaporating water from blood-

serum, etc.: used in bacteriological laboratories.

inst. An abbreviation (c) of institute or of institution.

instance, n.—Court of first instance, a court of original jurisdiction in which a cause is first heard or (having been heard and reversed upon appeal) to which it is sent back for retrial.
instanding (in'stan'ding), a. Growing inward

or with an inward tendency: as, instanding teeth.

Instantaneous center. See *center¹.
Instantograph (in-stan'tō-graf), n. [instant-(aneous) + (phot)ograph.] An instantaneous photograph. Encyc. Dict.
Instar² (in'stär), n. [L. instar, likeness, image. Compare the similar modern use of L.

age. Compare the similar modern use of L. imago (see imago).] Any one of the periods of an insect's life between two molts. The period immediately after hatching is said to be the first instar, and that after the first molt the second instar. If a caterpillar molts four times the pupa is the sixth instar and the adult the seventh. The term originated with Fischer in 1863, but has only recently been generally adopted. generally adopted.

Hence he adopts a term suggested by Fischer, and calls the insect as it appears after leaving the egg the first instar, and what it is after the first moult the second instar, and so on.

A. S. Packard, Text-book of Entom., p. 594.

insole-machine (in'sôl-ma-shēn'), n. In shoemanuf., a hand- or power-machine for stamping, forming, and shaping canvas in-soles. Under this general term may be included a series of tools, dies, and machines for making and building up by cement several layers of canvas, rendering them flexible by scoring one side and bending the material and pressing, and trimming and finishing them ready for insertion.

insolubilize (in-sol'ū-bi-līz), v. t.; pret. and pp. insolubilized, ppr. insolubilizing. [L. insolubilis, insoluble, +-ize.] To render insoluble. Buck, Med. Handbook, VIII. 351.

insolvency. n.—Open insolvency, such insbility to insolvency. n.—Open insolvency such insolvency. n.—Open insolvency such insbility to in the condition of being born.'] In chem., in the nascent stage; in the condition of a substance at the moment of its separating from a compound, when it frequently exnascent hydrogen will decompose silver chlorid at atmospheric temperature, though hydrogen gas will not. This may be explained by the assumption that the hydrogen is evolved from combination as an immense number of single atoms, freely capable of uniting to those of some other element, but that they do not remain single, but promptly unite into molecules consisting each of two similar atoms, there being evidence that 'ordinary hydrogen gas consists of such diatomic molecules, and that subsequently these molecules must be broken up if their constituent atoms are to become combined with those of another element.

Inst. O. E. An abbreviation of Institute of Civil Engineers.

Insted. prep. phr. A simplified spelling of

the planta

instigant (in'sti-gant), n. [L. instigans (-ant-), inspectoral (in-spek'to-ral), a. [inspector + ppr. of instigate, instigate.] An instigator.

-al.] Pertaining to inspectors or to their duties. See inspectorial.

Having power to incite or instigate: as, instigute.

Having power to incite or instigate: as, instigute.

gative suggestions; specifically, noting a type of disposition which achieves ends by inciting Giddings, Inductive Sociol., others to act. p. 63.

others to act. Giddings, Inductive Sociol., p. 63.

nstinct, n. 1. The definition of 'instinct,' and the demarcation of the range of instinct in the individual life, have long constituted a serious difficulty, both for the biologist and for the psychologist. Popular psychology (which rests upon a Cartesian dualism, and operates with the 'faculities' of eighteenth-century psychology) distinguishes instinct, as the dominant faculty of the animal mind, from reason, which is the previsor of the caterpillar in spinning a cocoon, the bird's skill in nest-building,—all these things are ascribed to the guiding power of instinct. And the general faculty is subdivided into such minor faculties as the instinct of self-preservation, the parental instinct, the play instinct of under a common term. Some change, no doubt, has been wrought in this popular view by the doctrine of organic evolution. The gap between man and the lower animals has been bridged; instinct and reason are included under a 'generic identity'; rudimentary reason is ascribed to animals; and there is greater readiness to admit an instinctive factor in human conduct. But, in principle, the common-sense notion of instinct is defined simply as a physiological cally, they belong to the class known as psychophysical, that is to say, they have two sides, a physiological and a mental. If instinct is defined simply as a physiological early they belong to the class known as psychophysical, that is to say, they have two sides, a physiological and a mental. If instinct is defined simply as a physiological phenomenon, it cannot be differentiated from other, and the cannot in cannot be differentiated from other, and the cannot in cannot be differentiated from other, and the cannot in scientific usage, be regarded as a psychological and a mental. If instinct is defined simply as a physiological and a mental. If instinct is defined simply as a physiological and a mental. If instinct is defined simply as a physiological and a mental. If instinct is defined simply as a phy

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non-instinctive activities. But similarly, if it is defined simply in psychological terms, it cannot be distinguished from other mental complexes,—from other modes of the action-consciousness. An adequate definition must pay regard both to psychology and to physiology; in other words, must be biological. Taking the objective or physiological side of instinct first, we find that it presents four chief characters: it is a mode of response to stimulus that is inherited; that is common to a group or species; that is relatively complex; and that is obviously adaptive. So regarded, it is not markedly different from the reflex, on the other. Its differentiation from the former must, in the last resort, depend upon its relative complexity; its differentiation from the latter, on its being inherited and not acquired. The former difference is, at best, only one of degree; the latter need be no more than a difference in the date at which the race acquires a certain habit of reaction. To these, however, must be added the psychological or subjective characters. The Instinct-consciousness is an associative consciousness in which the situation-stimulus (the first term) is followed by a series of organic sensations, the sensations accompanying the instinctive movements. These processes, the perception of the situation and the organic consequences, hold the attention; the performance of the instinctive movements is highly pleasant, their inhibition highly unpleasant. In other words, the instinct-consciousness is a complex 'feeling,' not differentiable in type from other serial feelings. Putting together, however, the two sets of characters, objective and subjective, we have a biological or psychophysical phenomenon which is distinctly marked off from others of the same class. Two remarks may be added, by way of caution: (1) In animals endowed with memory, and therefore especially in man, the 'pure' instinct will occur only on the first presentation of the appropriate situation. When the situation recurs, the re

See the quotation.

If we could isolate a living cell we must assume that it would react in a definite way to appropriate stimuli, and its reactions we may, if we choose, call its 'instinct-actions.'

Jour. Philos., Psychol. and Sci. Methods, June 9, 1904, [p. 313.

Instinctive action. See *action.

Instinctive action. See *action.

institor (in'sti-tor), n. [L. institor, < insistere (pp. instituts), set up, press upon: see insist.]
In civil law, an agent; a factor; a steward.

institute, n.— Parmers' institute, a local educational gathering of farmers, conducted either by a State agricultural college or by a special officer, in which lectures on agricultural subjects are given by specialists, questions asked, and the subjects discussed. Such institutes are held in large numbers in most of the States, usually occur in winter, and occupy from two to four days. [U. S.]—Naval institute, a society whose object is to bring interesting naval professional subjects under discussion. The headquarters of the United States Naval Institute is at Annapolis, Maryland.

institutional institutes or institutes or elementary rules, especially on legal institutes.

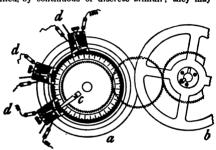
railroad-car arranged for the instruction and examination of engineers, firemen, and trainhands. It is fitted with a steam-boiler, heating apparatus, and working models of air-brakes, train-signals, and other train appliances.—

2. An electric car on a short track, in a car-barn, for the instruction of motormen in the control of electric cars, signaling, the rules of the road, etc.—3. A working electric car used in technical schools for demonstrutions and practice in the building and handling

The stitloat-insulator, an insulator with flaring annular base, used on overhead electric lines. Petticoat-insulators are sometimes and every thought of the petticoat or triple-petticoat insulator form.—Pigtail-insulator, an insulator with flaring annular base, used on overhead electric lines. Petticoat-insulators are sometimes and every three trainsulators are sometimes and every trainsulators are sometimes and every trainsulators are sometimes and every trainsulator are sometimes and every trainsulators are sometimes and every trainsulator are sometimes and every trainsulators are sometimes and every tra of electric cars.

of electric cars.

instrument, n.—Harp instruments, in music, a general term for stringed instruments played by plucking or twanging: opposed to bouved instruments. Harp instruments include those of the harp, lyre, lute, and zither classes.—Pravas instrument, a form of syringe for hypodermic injections.—Tensile instrument. Same as stringed instrument (which see, under instrument, 3).—Time-sense instrument, in exper. psychol., an instrument designed for use in the study of the time-consciousness, more especially in the study of the temporal differential sensitivity, of temporal illusion, of the dependence of temporal estimation upon sense department, etc. A typical time-sense instrument consists of a metal spoke or radius, rotated at various speeds and with uniformity of rate, within a ring which carries projecting contact-pieces. As the radius strikes a contact-piece, an electrical circuit is momentarily made, and the making of the circuit coincides with a sound, flash, pressure, electric shock, etc. Very brief intervals of time, marked off by various sensestimuli, are thus produced. They may be minimally varied, by the shift of a contact-piece; they may be variously filled, by continuous or discrete stimuli; they may be



Neumann's Time-sense Instrument.

a, time-sense disk; b, kymograph drum; c, rotating spoke;
d, d, d, contact-pieces.

presented for comparison in direct succession, or separated by variable blank intervals, etc. The time-sense instrument, in some form, has become a standard feature of the psychological laboratory.—Tubular instrument, a wind-instrument which consists of a tube.—Vowel instrument, in accoustics, an instrument designed to determine the resonance tones of the voice, and thus by instrumental synthesis to reproduce the vowel sounds. Scripture, Exper. Phonetics, p. 290.

Insufficiency. 7.—Aortic, mitral insufficiency. See

insufficiency, n.—Aortic, mitral insufficiency. See substitution of the stomach to retain food to be acted upon by the gastric juice, through defective closure of one or more of the valves of the heart, resulting in regurgitation of the blood: called, according to the valves of the ware through a hollow tube over the end of which gauze has been stretched. See souffile decoration, under souffile.

Insufficiency, n.—Aortic, mitral insufficiency. See insurgescence (in-sér-jes'ens), n. [L. insurgere, insufficiency. The beginnings of insurrection; incipient revolt against authority.

Int. An abbreviation (c) of interior; (d) of interpretation.

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insula, n. 2. In a Roman city, especially Rome itself, a building composed of distinct apartments let to several families; an apartment-house or tenement-house, in distinction from domus, an independent residence. Originally insuls were separated by passages at least 12 feet wide, or by streets. In the later republic, however, stout partitions were considered sufficient. Augustus fixed the height of an insula at 70 feet, and Trajan at 60. Shops usually occupied the ground floor front.

3. In a smaller Roman city, especially Pompeii, a block of houses entirely surrounded by streets.

insular, a.—Bureau of Insular Affairs. See ★bureau. insulated (in'gū-lā-ted), p. a. Being in a state of insulation, in any sense of that word; in a restricted sense, so remote from other bodies as to be beyond the reach of any sensible

attraction, as solitary or isolated stars.

insulating-tape (in gū-lā-ting-tāp'), n. Tape impregnated with an insulating compound and used as a covering for electric wires or other conductors

insulating-tube (in'sū-lā-ting-tūb'), n. A tube of non-conducting material, used to protect a conductor, around which it is placed, from

electric leakage. insulation-meter (in-şū-lā'shon-mē'ter), A direct-reading instrument for the determina-tion of electric insulation.



In the 'piqtail' insulator an additional iron piece in the shape of an S is moulded in the top.

Reber, in Trans. Amer. Inst. Elect. Engin., 1902, p. 721.

Shackle-insulator, a special form of insulator used for the support of overhead lines where great strength is re-quired.—Slot-insulator, an insulator provided with a channel through which the wire



channel through which the wire passes.— Strain-insulator, an insulator placed between an overhead wire or cable and the guywires or supports by means of which it is kept stretched.— Umbrella-insulator, an insulator for high-tension circuits which is provided with a broad umbrella-shuped cover of glass or porcelain. The lower parts of the insulator are thus protected from rain, and the distance over the surface which leakage currents the wire and its aumorat is greatly

must traverse between the wire and its support is greatly

insuliform (in'gū-li-fôrm), a. [L. insula, island, + forma, form.] Like an island or suggesting an island on a map: used in reference to markings on the skins of animals. insulite (in'gū-līt), n. [insul(ate) + -ite².] A substance made by impregnating sawdust with paraffin-oil under pressure: used for electrical insulation insulation.

insult, v.t. 3. In pathol., to injure; inflict traumatism upon.

matism upon.

The patient's vitality is greatly reduced when the intestines are insulted, and there is great danger of the loops adhering in malposition and giving rise to intestinal obstruction.

Therapeutic Gazette, Feb. 15, 1903, p. 120.

insult, n. 5. In pathol., external violence which causes a lesion.

insur. An abbreviation of insurance.

insurance. An appreviation of insurance. See *cost2.—Mutual life-insurance company, an insurance company whose fund for the payment of expenses and of amounts to be paid upon policies issued consists, not in capital subscribed or furnished by outside parties, but of premiums unutually contributed by the parties insured, each of whom, by virtue of being a policy-holder, is a member of the company.—Insurance agent, one who solicits business for an insurance company.

insurant (in-shor'ant), n. One whose property or life is insured.

Int. An abbreviation (c) of interior; (d) of interpreter; (e) of interval; (f) of interjection.

intactile (in-tak'til), a. [in-3 + tactile.] Imperceptible to the touch; not tactile.

intake, n. 8. Land taken in from a waste place, or from a common or tidal river.

intake-valve (in'tāk-valv), n. A valve for controlling the supply of a fluid (air, gas, oil, steam, or water) to an engine or machine.

intarsia (in-tär'si-\(\beta\)), n. [It. intarsia, \(\lambda\) intarsiare, inlay, \(\lambda\) in-tarsia, inlaid work, marquetry: see tarsia.] A highly developed form of inlay or marquetry in wood practised in Italy during the Renaissance period. The earliest Italy during the Renaissance period. The earliest examples are found on ivory boxes made in Venice in the fourteenth century. By using various colored woods and by staining with different colors, excellent pictorial effects were afterward produced, as in the doors of the audience-chamber in the Palazzo Vecchio in Florence.

intarsiatura (in-tār'si-ā-tō'rā), n. [It. intarsiatura, < intarsiare: see *intarsia.] The process of making tarsia; also, the resulting work. integer, n.—Critical integer, an integer m so connected with a function ϕt that

 $x = \int \cos \phi \, ds$, and $y = \int \sin \phi \, ds$,

in which x and y are the coordinates of any point on a Cornu spiral, ϕ is the inclination of the tangent to the spiral at that point to the axis of x, and ds is an element of arc. Fresnel's integrals are used in the theory of dif-

fraction for computing the intensity of illumination.—Gauss's Integral, according to Gauss, for a surface, the total curvature of a part bounded by a closed curve is the value, when the integration is extended over this part, of the double integral // Kdσ, wherein K is the measure of curvature of the surface at every point and $d\sigma$ the surface element.—**Probability integral**, the integral which expresses the area of the normal curve or curve of error whose equation is

$$y = \frac{1}{\sqrt{2\pi}} e^{-\frac{1}{2}x^2}.$$

Time integral, the integral of a function taken over an interval of time or between two time limits.—Variation of an integral, the excess of the value of the integral along the varied curve above its value along the original curve.

integralization (in'tē-gral-i-zā'shon), n. [integralize + -ation.] The act of bringing into the form of an entire function.

integrand (in'të-grand), n. [L. integrandus, future perf. part. of integrare, make whole: see integrate.] A mathematical expression integrated or to be integrated.

In this case the first integrand is Poynting's Energy
Flow function. Physical Rev., Aug., 1904, p. 101.

integraph (in'tē-grāf), n. [inte(gral) + Gr. γράφεν, write.] 1. An instrument for measuring the area under a curve combined with a recording device which draws the integral curve of the curve traced by the point of the instrument an integrator. instrument; an integrator.

Areas may be measured by means of a planimeter or an integraph. Thus time values corresponding to different speed values are known, and the speed time curve may be plotted.

Elect. World and Engin., July 18, 1903, p. 93. 2. An instrument for determining the value of an indefinite integral.

Integraphs have also been constructed, by aid of which ordinary differential equations, especially linear ones, can be solved.

Encyc. Brit., XXX. 583.

be solved.

Encyc. Brit., XXX 583.

integration, n. 4. The determination of the average rate of flow of a stream. On account of the varying friction against the bottom, sides, and overlying sir, this value, as a rule, differs from the rate at any particular place in the cross-section of the stream. J. W. Powell, 11th An. Rep. U. S. Geol. Surv., ii. 13.—Graphic integration by means. ii. 13.— Graphic integration, integration by means of the integraph, or by graphical construction of the integral curve.—Law of integration. See *lawl.— Mechanical integration, integration by an integraph.—Reciprocal integration, the mutual union of a male cell and a female cell to form a unit or fertilized egg.

Or interbreeding and crossing, with care or under nature, may unite by means of reciprocal integration — (fertilization) — two molecular mechanisms.

J. A. Ryder, Biol. Lectures, 1895, p. 49.

N. E. D. intellect, n.—Economic theory of intellect, an extreme form of pragmatism set forth by Dr. Ernst Mach, according to which general concepts and intelligence generally serve a purely economical purpose in enabling us to foresee how a given line of conduct will be adapted to our wishes. More moderate pragmatists maintain that desires and ends of all kinds essentially involve general concepts, so that, since [economy is the adaptation of means to ends, and supposes that there are ends, it is incorrect to say that general concepts have only an economic utility. Common sense refuses to believe that the human mind can create ideas entirely unlike anything real, and therefore it is incredible that purpose should be purely illusory.

purely filusory.

Intellectual aura, memory. See *aura1, etc.

Intellectualistic psychology. See *psy-

Intelligence officer, an officer of a bureau or department of intelligence.

nected with a function ϕ t that $\frac{1}{2\pi i^2} \frac{\phi t}{t-z} \left(\frac{2}{t}\right)^m dt,$ for increasing contours inclosing successive singularities of ϕ t (of which there is an infinite series) tends toward zero.—Ordinal integer, a mark attached to an object to indicate its place in a series or row.

Integrable group. See $*group^1$.
integral. I. a. 4. (c) Total.—Integral curve, equation, series. See *curve, etc.

II. n.—Elementary integral, a fundamental integral, one of the simplest of its kind.—Fresnel's integrals, the two integrals $\frac{1}{n} \frac{1}{n} \frac{\phi t}{-z} \left(\frac{2}{t}\right)^m dt,$ intelligize (in-tel'i-jiz), v.; pret. and pp. intelligized, ppr. intelligizing. [L.intellig(crc), understand, +-ize.] I. intrans. To think; use the intellectual powers.

II. trans. To receive or take into or by the intellect; assimilate mentally.
intend, v. t. 9. To manage; superintend; supervise. N. E. D.

intendment, n.—Double intendment, double meaning: said of a word or phrase which has two meanings. See double entendre.

intens. An abbreviation of intensive.

intension, n. 4. In biol., the origin of a new variety, race, or species from individuals which are restricted from free interbreeding with their kind.

I now call the certainty that some form of divergent transformation will arise when intergeneration is prevented, the principle of intension.

J. T. Gutick, in Trans. Linnean Soc. London, Zool., 1888,

intensionally (in-ten'shon-al-i), adv. So as to denote the sum of the characters given as a

definition of a term.

A class may be defined either extensionally, by an enumeration of its terms, or intensionally, by the concept which denotes its terms. Nature, Sept. 3, 1903, p. 411.

intensity, n.—Calorific intensity. See **calorific.—Communal intensity, increase of numbers or activity, as of insects and parasitic fund, in conditions of increased population and cultivation.

population and cultivation.

It is no doubt true that insects and fungl spread more rapidly than formerly because of the greater number and continuity of orchards, just as contagious diseases spread faster in cities than in the country. In the small and isolated orchards of former days, fungi and insects were confined within closer areas. This phenomenon of rapid distribution, due to greater extent of host-plants, may be termed communal intensity.

L. H. Bailey, Survival of the Unlike, p. 185.

L. H. Bailey, Survival of the Unlike, p. 185.

Intensity-rhythm, intensity-verse. See **rhythm, **rerse2.*—Mean spherical intensity, in photom., the value of the intensity of a source of light, obtained by averaging the intensities in all directions; the total flux from a source of light, in lumens, divided by 4**; the mean radius vector of the surface of spherical distribution from a light source.—Unit of luminous intensity. See *unit.—Unit of photometric intensity. See *unit, and photometric standard, under photometric.

intensive, a. 5. In agri., concentrated (cultivation): designating high culture, or the principle of a small area well tilled, the purpose being to secure the most from every acre of land by means of the application of labor and fertilizers and the most thorough tillage. Compare **extensive*, 5.—6. In pathol., noting the

light bound.—Unit on and photometric stance.

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academic institutions.

interacinar (in-tèr-as'i-năr), a. [interacinus + -ar³.] Same as interacinous.

Lewaschew... thought that he was able to transform
small groups of acini into typical interacinar islets, thus
increasing their number at the expense of the secreting
tissue. Jour. Exper. Med., Jan. 15, 1901, p. 39e.

interactionism (in-tèr-ak'shon-izm), n. [interaction + -ism.] The metaphysical opinion
that body and mind, having like modes of existence, act and react upon each other somewhat as two bodies may do, and that this is
the manner in which forces acting upon the
organs of sense affect the mind and in which
volitions produce contractions of the muscles. volitions produce contractions of the muscles. volitions produce contractions of the muscles. Those who hold this opinion do not consider themselves as materialists for several reasons, among which is their belief that matter can not feel, as the soul can; but they do hold the mind to be, in important respects, similar to matter. The principal advocate of this opinion is Lotze, who is particularly explicit in details in his "Microcosmus" and "Medicinal Psychology."

Interactionism seems almost to necessitate two juxtaposed realities exchanging influences, and thus to imply a metaphysical dualism.

C. A. Strong. Why the Mind has a Body 2002

Interactionism has to maintain, in this concrete form of the 'survival theory,' that the mental process as such is an aid to evolution.

Pop. Sci. Mo., March, 1902, p. 459. interactionist (in-ter-ak'shon-ist), n. and a. [interaction + -ist.] I. n. An adherent of the metaphysical theory of interactionism. C. A. Strong, Why the Mind has a Body, p. 33.

II. a. Consonant to the metaphysical theory of interactionism. C. A. Strong, Why

theory of interactionism. C. A. Strong, Why the Mind has a Body, p. 23.

interadventual (in'ter-ad-ven'tū-al), a. Of or pertaining to the interval between the first and second advent of Christ. Warfield.

interagglutinate (in'ter-a-glo'ti-nāt), v. t.; pret. and pp. interagglutinated, ppr. interagglutinating. [inter-+agglutinate.] To cause interagglutination.

Varieties of bacilli. related closely in morphology and

Varieties of bacilli, related closely in morphology and cultural reactions, do not, as a rule, produce serums which inter-agglutinate.

Jour. Exper. Med., Oct. 1, 1901, p. 642.

interagglutination (in'ter-a-glö-ti-na'shon),
n. [inter- + agglutination.] The agglutina-

tion of one variety of cells by the agglutinins

produced by a closely related variety.

These results will be seen to bear out Cushing's results in his experiments upon Bacillus 0, that inter-agglutinations do not necessarily occur between closely related varieties of bacilli.

Jour. Exper. Med., Oct. 1, 1901, p. 640. interalar (in-ter-ā/lār), a. [L. inter, between, + ala, wing, + -ar³.] Situated between the

Thorax. Dark metallic green above, with all the sutures and the interalar space black.

Proc. Zool. Soc. London, 1902, I. 86.

Proc. Zool. Soc. London, 1902, I. 86.
interambulacral, a. II. n. In echinoderms,
one of the plates which form the skeleton.
The interambulacrals lie in single columns between the
ambulacra.
interanode (in-ter-an'ōd), n. [inter- + anode.]
That one of two metal plates, placed between
the terminals of an electrolytic cell in the path
of the current, from which metal is dissolved

interantennary (in ter-an-ten a-ri), a. [L. the gastral cavity.

inter, between, + NL. antenna + -ary.] Situ- intercanalicular (in ter-kan-a-lik ū-lār), inter, between, + NL. anter ated between the antennæ.

interapertural (in-ter-ap'er-tur-al), a. [L. inter, between, + apertura, aperture, + -all.] Situated between the apertures: as, the in-

interbedding (in-ter-bed'ing), n. In geol., the process or property of forming a member in a conformably stratified series of rocks.

There is no sharp line of division between the igneous and sedimentary rocks, and along the contact there is more or less interbedding as though sedimentation was at times interrupted by lava flows and then again was resumed under more favorable conditions.

**There is no sharp line of division between the igneous and sedimentary rocks, and along the contact there is more or less interbedding as though sedimentation was at tus for the liquefaction of air wherein the sumed under more favorable conditions.

**There is no sharp line of division between the igneous interceptor (in-ter-sep'tor), n. Same as interceptor.

interbody (in'ter-bod'i), n. [inter- + body.]
An amboceptor of normal blood-serum, in contradistinction to those which result on special immunization.

interborough (in-ter-bur'ō), a. [inter- + borough.] Existing or forming a communication between borough: as, the interborough railway in New York

in enterborough railway
in New York.
Interbrachial membrane, in
certain cephalopods, the weblike fold which unites the
arms and sometimes reaches
nearly to their extremities, as
in Amphiretus.
interedance

intercadence (in-terkā'dens), n. [inter-+cadence.] The intercurrence of an extra pulsebeat between two normal pulsations.

intercadent (in-ter-kā'-dent), a. [inter- + ca-dent.] Intercurrent; falling between: said of an occasional pulsebeat coming between and Hasw two beats of the normal rhythm.

Interbrachial Membrane. (Amphitretus pelagicus.) a, funnel; b, pouch in the mantle; ε, eyes; d, inter-brachial membrane. (Cooke, after Hoyle.) (From Parker and Haswell's "Zoology.")

intercalarium (in'ter-kā-lā'ri-um), n.; pl. intercalaria (-ā). [NL.: see intercalary.] A segment intercalated or inserted between two vertebræ, on either the dorsal or ventral side intercompany (in-ter-kum'pa-ni), a. [inter-

of the vertebral column. In the latter case the intercalarium would be homologous with an intercentrum or hypocentrum: in the first instance it would be the equivalent of the interdorsalia of Gadow. Intercalaria occur typically in the vertebral column of sharks. *Philos. Trans. Roy. Soc.* (London), 1893, ser. B, p. 83.

intercalary, a. 4. In anat., additional; supernumerary; inserted between other parts, as the cartilages on the dorsal side of the vertebral column in many elasmobranchs.

In all recent forms the neural arch is converted into a closed canal by the insertion of intercalary pieces between the neural processes and the spine.

J. S. Kingsley, Vert. Zool., p. 234.

J. S. Kingsley, Vert. Zool., p. 234. intercalicular (in'tèr-ka-lik'ū-lār), a. [L. inter, between, + caliculus, a cup, +-ar3.] Situated between the calyces: as, intercalicular gemmation in corals. Proc. Zool. Soc. London, 1899, p. 752.
Intercanal system, in calcareous sponges, a system of irregular spaces, really external to the sponge, in which the water circulates before passing through the pores into the gastral cavity.

[L. inter, between, + canaliculus, a small channel, + -ar3.] In some of the silicious sponges, noting a series of cavities or interstices on the sponge-body lying among the tubes or folise constituting the skeleton, as in

intercapillary (in-ter-kap'i-lā-ri), a. [inter-+ capillary.] Between or among the capillary blood-vessels.

intercarpellary (in-ter-kär'pe-lā-ri), a. [in-ter- + carpellary.] In bot., situated between carpels.

intercatenated (in-ter-kat'ē-nā-ted), a. [in-ter- + catenate + -ed².] Chained together; linked firmly together: as, intercatenated ideas. linked firmly together: as, intercatented ideas.
intercathode, interkathode (in-ter-kath'od),
n. [L. inter, between, + E. cathode.] That
one of two metal plates, placed between the
terminals of an electrolytic cell in the path of
the current, upon which metal is deposited.
intercentrum, n. 2. Same as centrum, 2 (a).
Amer. Nat., May, 1890.
intercepter, n. 2. Specifically, in mach., a Tshaped cylindrical vessel employed in connection with engines to prevent particles of water
from being carried into the cylinder with the
steam: a steam-separator. The steam in its

steam; a steam-separator. The steam, in its passage through the intercepter, meets a diaphragm-plate by which the water is thrown out and is subsequently drawn off by a drain-cock.

interception-band (in-ter-sep'shon-band), **.
In physiol. and psychophysics, a narrow band of color produced, under certain conditions of color produced, under certain conditions of experiment, by the passage of a pendulum or other light rod across a bicolor disk observed with the resting eye: so called, as opposed to illusion-band, because it is due to the purely geometrical relations of the disk and the intercepting pendulum.

Harrand Psychol Studies I 100

Harvard Psychol. Studies, I. 190. interceptor (in-ter-sep'tor), n. Same as inter-

thus cooled to its point of liquefaction.

intercivic (in-ter-siv'ik), a. [L. inter, between, + civis, citizen, + -ic.] Existing or taking place between citizens of the same

place: as, an intercivic contest.

intercollision (in"ter-ko-lizh'on), n. [inter+ collision.] In phys., a collision between the
independently moving particles of a gas or
other medium. Elect. Rev., Aug. 8, 1903, p. 172.
intercolumniary (in"ter-kō-lum'ni-ā-ri), a. [L.
intercolumniary appear between columns intercolumnium, space between columns, -ary².] Same as intercolumnar.

intercommissural (in ter-ko-mis'ū-ral), a. [in-ter- + commissural.] Situated between com-missures: as, the intercommissural recess, a depression between the dorsal and ventral commissures in the lamina terminalis of the reptile brain. Trans. Linnean Soc. London,

Zool., July, 1903, p. 471.

intercommuner (in'ter-ko-mū'ner), n. 1. In Scots law, one who intercommunes with a denounced person or a rebel. See letters of intercommuning, under intercommune.—2. One who communicates or conducts negotiations

between other parties; an intermediary.

intercommunicative (in ter-ko-mū'ni-kā-tiv),

a. [inter- + communicative.] Inclined to be communicative with each other; disposed toward mutual exchange of opinions, knowledge, or facts.

+ company.] two or more companies.

Within a great corporation proper co-operation allows of many "intercompany" economies.

**Electrochem. and Metal. Industry, May, 1906, p. 167.

within a great corporation proper co-operation allows interdespised (interdespised, ppr. interdespising. [inter-+ despised, ppr. interdespising. [inter-+ despised, ppr. interdespised, ppr. interdespising. [inter-+ despise] To despise reciprocally.

intercomparable (in-tèr-kom'pa-ra-bl), a. [ininterdestructive (in 'tèr-dē-struk'tiv), a.
ter-+ comparable.] Capable of being compared.

interdespised, ppr. interdespising. [inter-+ despise] To despise reciprocally.

intercompare (in'ter-kom-par'), v. t.; pret. and pp. intercompared, ppr. intercomparing. [inter- + compare.] To compare.

The labors of Bessel, Clarke and others in intercomparing geodetic standards. Science, Jan. 13, 1906, p. 46.

intercomparison (in'ter-kom-par'i-son), [inter- + comparison.]
paring or comparing. The act of intercom-

The opportunities for intercomparison afforded of late Burlington Mag., IIL 257.

intercondylic (in'ter-kon-dil'ik), a. [inter-+ condyle + -ic.] In anthrop., relating to the distance between two condyles.

interconvertibility (in "ter-kon-ver"ti-bil'i-ti), Mutual convertibility; interchangeableness.

interconvertibly (in'ter-kon-ver'ti-bli), adv.

In a reciprocally convertible manner.

intercooler (in-ter-kö'ler), n. [inter-+ cooler.]

A device for cooling air as it passes from one cylinder of a compressor to the next: similar to a condenser. It usually consists of a cylindrical shell in which are fitted tube-plates and tubes for the

cooling water.
intercortical (in-ter-kôr'ti-kal), a. [L. inter, between, + cortex (cortic-), bark, +-all.]
Within the cortex: as, the intercortical cavities in certain sponges. Proc. Zool. Soc. London, 1902, p. 215.

intercostal, a. 2. In iron ship-building, noting a structural member composed of a number of short pieces fitted in the spaces between a series of other continuous structural members which it crosses: as, an intercostal floorplate, one in which the floor is in short pieces between the longitudinals; an intercostal keelson, intercostal longitudinal, one in short pieces between the frames; an intercostal angle-bar, intercostal seam-strap, one in short pieces between frames or deck-beams, etc.

When the deep vertical transverse plates forming the floors only extend between the keelsons, girders or longitudinals, and are attached to them by angle bars, the floors are called intercostal floors... when the keelsons, girders, or longitudinals extend only between the frames and floors, they are called intercostal keelsons, girders, and longitudinals.

Encyc. Brit., XXXII. 591.

intercostally (in-ter-kos'tal-i), adv. In iron ship-building, (worked or fitted) in intercostal pieces. Marine Rev., Nov. 17, 1898.
intercotylar (in-ter-kot'i-lar), a. [L. inter, between, + NL. cotyle + -ar3.] In anat.,

lying between two cotyle; specifically applied to the region between the cup-shaped depressions on the upper end of the tarsometatarsus of a bird which receives the articular faces of the tibiotarsus.

[The tarso-metatarsus] of the Grebe may be distin-uished from that of the Diver by the larger size of the ntercotylar tubercle.

Proc. Zool. Soc. London, 1899, p. 1041.

intercourse, n.—Intersubjective intercourse, See

Nitsche has shown that the sheath [horn of the prong-buck] is an aggregation of sparse hairs connected by much intercrinal horn-substance... Proc. Zool. Soc. London, 1902, p. 213.

Intercrural ganglion. Same as *ganglion

intercupola (in'ter-kū'pō-lä), n. [inter-+cupola.] Same as *interdome.

intercurrent, a. 3. Noting a pulse in which

intercurrent, a. 3. Noting a pulse in which there is an occasional supernumerary beat.

intercuspidal (in "ter-kus'pi-dal), a. [L. inter, between, + cuspis (cuspid-), point, + -all.]

Situated between cusps.

interdeal (in-ter-del'), v. i. [inter- + deall, v.] To deal together or reciprocally.

interdenominational (in ter dē nom i - nā -shon-al), a. [inter + denomination + -all.] Taking place between religious denominations; having the common support of such denominations.

Interdental splint. See *splint. interdepend (in ter-de-pend'), v. i. [i depend.] To depend upon each other. [inter-+

interdict, n. 5. In law, an incompetent; one judicially declared to be incapable of caring for his person or estate. See interdiction, 2.

interdictor (in-ter-dik'tor), n. In Scots law, one who causes an interdiction, that is, a legal restraint upon a person of weak mind who is liable to be imposed upon.

interdiffusive (in ter-di-fu siv), a. [inter-+diffusive.] Mutually diffusive.

interdiffusivity (in ter-dif-u-siv'i-ti), n. [interdiffusive +-ity.] The physical constant or coefficient which expresses the rate, in cubic centimeters per second, at which two fluids diffuse into each other through the unit area of a horizontal plane separating them: as, the interdiffusivity of CO_2 and O_2 is about 0.140 cm²

Poynting and Thomson, Properties of Matter, p. 196. interdigit (in-ter-dij'it), n.

[inter- + digit.] The fold between any two adjacent fingers or toes.

interdiscal (in-ter-dis'kal), a. [inter- + discal.] In entom., situated between the discal spots on the wing of a lepidopterous insect. Annals and Mag. Nat. Hist., May, 1903, p. 504.

interdistichal (in-tèr-dis'ti-kal), n. [L. inter, between, + E. distichal.] In the calyx of the Crinoidea, one of the plates lying in the inter-radial areas between the distichals of the rays. See *distichal.

interdome (in'ter-dōm), n. [inter- + dome.]
In a masonry cupola, the space between the inner and outer shell; by extension, the space between the inner masonry cupola and the onter dome-like roof of wood or metal, as in St. Paul's Cathedral, London. Also called intercupola.

interdorsale (in'ter-dôr-sa'lē), n.; pl. interdorsalia (-li-ā). [NL., neut. of interdorsalis, < L. inter, between, + dorsum, back.] One of a pair of cartilages on the dorsal side of the notochord, posterior to the basidorsalia; commonly used in the plural.

interelectrode (in ter-ē-lek trōd), n. [L. inter, between, + E. electrode.] A metal plate inserted between the terminals of an electrolytic

interest, n.—Law of interest, in psychol. See *law1.
— Reversionary interest, the future interest one has in lands now in the possession of another; also the remainder of an estate after a lesser estate has been taken out of it.

interestuarine (in-ter-es'ţū-a-rin), a. [L. in-ter, between, + æstuarium, estuary, + -ine¹.] Situated between estuaries.

nterfault (in ter-falt), a. In geol., situated between two faults: applied to the contained interfault (in'ter-fâlt), a. block of rock.

interfeited (in-ter-fel'ted), a. [inter- + felt⁸ + -ed².] In geol., a descriptive term sometimes applied to beds or layers of sedimentary

intercourse, ...
**intersubjective.
intercrinal (in-ter-krī'nal), a. [L. inter, between, + crinis, hair, +-all.] Between hairs; specifically applied to the material cementing or uniting the hairs to form the horns of some interfenestral (in'ter-fe-nes'tral), a. [L. inter, between, + fenestra, window, +-all.] Situated or placed between the windows or between any two windows: as, an interfenestral tween any two windows: as, an interfenestral panel; the interfenestral space.

interfenestration (in-ter-fen-es-tra'shon), n. [NL., "interfenestration' (in-ter-len-en-tra single), n. [NL., "interfenestratio(n-), < inter, between, + fenestra, window.] The space between two windows; by extension, the treatment of a front so that the windows and the space between them shall be artistically proportioned.

interferant (in-ter-fer'ant), n. [Prop. interferent; < interfere + -ant (-ent).] In Amer. patent law, a party who goes into interference. See interference, 4.

interfere, v. i. 5. In base-ball, to obstruct unfairly a runner when he is endeavoring to reach a base; also, so to obstruct a catcher or fielder who is endeavoring to handle or throw the ball.—6. In foot-ball, to interpose between a runner and would-be tacklers in order to assist the former.

interference, n. 6. In base-ball and foot-ball, the act of interfering. See *interfere, v. i., 5 and 6.—Interference comparator, See*comparator, 1.

Existing between, or among, ompanies.

In a reciprocally dependent way.

In a reciprocal y devendent way.

I

interference-fringe (in-ter-fer 'ens-frinj), n.

See interference, 5. interference-tube (in-ter-fer ens-tub), n. A tube of such form as to afford two paths, aljustable as to length, to a train of acoustic or electrical waves, thus producing the phenomenon of interference.

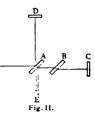
Through interference tubes with two branches only those vibrations are transmitted which are parallel to the plane of the branches.

G. Quincke, in Rep. Brit. Ass'n, 1901, p. 39.

interferential (in ter-fe-ren'shal), a. [inter-ference + -ial.] Of or pertaining to the interference of wave-systems, specifically, of light-waves.—Interferential methods, methods specifically for the measurement of small distances, in which the phenomena arising from the interference of light are employed. See *kinterferometer* and refractom-

interfering-shoe (in-ter-fer'ing-shö), horseshoe designed to cure or prevent inter-ference in a horse; an interference-strap. See interference, 3.

interference; δ.
interference; (n'ter-fē-rom'e-ter), n. [Irreg. \(\lambda\) interfer(ence) + Gr. μέτρου, measure.] An instrument for the measurement of lengths by interferometer (in "ter-fe-rom" e-ter), n. [Irreg. \(\) interfer(ence) + Gr. \(\mu \) troop, measure. An instrument for the measurement of lengths by means of the phenomena resulting from the interference of two rays of light. The development of the interferometer is chiefly due to Michelson, but the instrument in its modern form is based upon an extension of the principle used by Jamin in his refractometer. The Jamin refractometer was designed for the measurement of the indexes of refraction of transparent bodies by means of the retardation of a ray of light passing through a given thickness of the substance as indicated by its manner of interference with a ray not thus retarded. In this refractometer two plates of parallel glass of equal thickness, silvered on the back, are mounted in a vertical position with their faces parallel as shown in Fig. I. One of these plates, AA, makes an angle of 45 with the axis of the instrument; the second, BB, can be turned about a vertical axis and its distance from AA can be altered at will. A beam of light passes through the silt 8 and a portion of it reflected from the first face of AA reaches the other plate BB. That portion of the incident ray which is transmitted by the plate AA is similarly reflected from the silvered surface at the back (D) is shown in the diagram. That portion of the incident ray which is transmitted by the plate. This ray and the one reflected from the plate and is reflected from the silvered back (C) of that plate and ilkewise reaches BB, a portion of the rays between AA and BB the retardation of the first surface of phase between the rays and a series of horizontal diffraction-fringes will appear. If a thin plate L of any refracting substance is placed in the path of one of the rays between AA and BB the retardation of the plate in transmission through it will produce a shifting of the diffraction-fringes from the the index is known. The instrument therefore may be used either as refractometer. The principle of given various forms according to t



the light is reflected to the plate D while the remainder is transmitted through the plate B to C. C and D are heavily coated with silver on the front face, forming two plane mirrors adjusted so as to return the light falling upon them on the same path. The returning ray from C is in part reflected toward E and the returning ray from D is in part transmitted along the same path. An observer at E, when the instrument is in adjustment, sees a system of bands or fringes due to the interference of these two rays. The plate B, which should be as nearly as possible identical in thickness and optical quality with A, is used to compensate for the difference in the path of the two rays when the distances of C and D from A are equal. To an observer at E, rays turned from the plate D and transmitted by A will be seen to interfere with the rays from C reflected by A, provided the distance traversed by the light in traveling from A to D and back is very nearly equal that from A to C and back. Any relative change in these distances, comparable in amount to a wave-length of light, will produce a shifting of the interference-fringes in the field of view, and it is by the

observation of this shift, by means of a micrometer eyepice not shown in the diagram, that measurements of distance by means of the interferometer are made. The extraordinary delicacy of this method, which enables a skilled observer to detect a movement of either of the mirrors C or D amounting to the one hundredth of the wave-length, or about .000006 centimeter, has led to the use of the interferometer for refined determinations of various physical constants.

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interjugal (in-ter-jö'gal), a. [inter- jugal.]
Stuated between In craniom., relating to or situated between the two jugal points of the skull.

interjugular (in-ter-jö'gū-lār), a. [inter- + jugal.]

interjugular (in-ter-jö'gū-lār), a. [inter- + jugal.]

interjugular (in-ter-jö'gū-lār), a. [inter- + jugal.]

interjugal (in-ter-jö'gal), a. [inter- + jugal.]

interferric (in-ter-fer'ik), a. [inter-+ ferric.] In dynamo-electric machinery, lying between the pole-piece and the iron of the armature of a generator or motor: said of the air-gap of such a machine or of any magnetic circuit.

The whole interferric gap between the iron of the pole-pieces and the iron of the armature may be treated as an air-space.

Encyc. Brit., XXVII. p. 586.

Interflamentar junction, in the gills of bivalve molusks, one of the horizontal bars of tissue which connect the gill-filaments and cause externally the appearance of longitudinal striction.

interfilar (in-ter-fi'lär), a. [L. inter, between, + filum, thread, + -ar³.] In cytol., situated or occurring between fibrils or fibrillæ: as, the interfilar substance of the cytoplasm of a cell.

Philos. Trans. Roy. Soc. (London), 1894, ser. B,

2002.

interflange (in'ter-flauj), n. [inter- + flange.]
The distance between the two flanges of a bobbin measured parallel to the axis.

interflow (in'ter-flo), n. [inter-+ flow.] The flowing of seas or rivers into each other or between boundaries, as between islands.

interfluence (in-ter'flö-ens), n. [L. interfluere, flow between, + -ence.] A flowing into each other, as rivers; the state of being interfluent.

interfluve (in'ter-flöv), n. [L. inter, between, + fluvius, river.] In phys. geog., an upland or group of hills between two neighboring valleys. interfluvial (in-ter-flö'vi-al), a. [L. inter, between, + fluvius, river, + -all.] 1. Situated between rivers.

A deposit of the flooded rivers during a stage of abundant ice melting, with considerable redistribution over the interfluvial upland areas by winds.

Sci. Amer. Sup., Feb. 14, 1903, p. 22679.

2. See the extract.

Accordingly, when referring to non-glaciated regions I shall use the terms "fluvial" and "inter-fluvial" and their derivatives as the designations of the contrasted climatic epochs ordinarily known as "glacial" and "interglacial" in Europe and America.

Bull. Amer. Geog. Soc., Nov., 1906, p. 673.

interfoliar (in-ter-fō'li-ṣr), a. [L. inter, between, + folium, leaf, + -ar³.] 1. Situated between or among the leaves.—2. Same as interlamellar. Encyc. Brit., XXX. 798.
interfurrow (in-ter-fur'ō), n. [inter- + furrow.] The open furrow between two ridges;

a water-furrow or dead-furrow.

The form of the old ridges, and the situation of the inter-furrows, are preserved. Loudon. Encyc. Agr., p. 527.

Interfusion disk. See *disk.

intergenerant (in-ter-jen'e-rant), a. [L. inter, between, + generans (-ant-), ppr. of generare, generate.] Intergenerating; interbreeding.

intergenerating (in-ter-jen'e-rā-ting), a. Interbreeding; intergenerant.

intergeneration (in-ter-jen-e-rā'shon), n. [in-ter-+ generation.] The interbreeding or cross-ing of the individuals that compose an intergenerant group.

intergenetic (in-ter-je-net'ik), a. [inter-+genetic.] Generated or introduced during the individual life-history, or the ontogeny of the individual, or during that of ancestors. [Rare.]

Recurring to an earlier suggestion we may note that all three of these conceptions are 'intergenetic,' or 'ontophy-letic' (the former term being the one which I prefer, and shall use.

J. M. Baldwin, Development and Evolution, p. 11.

intergential (in-ter-jen'shial), a. [L. inter, between, + gens (gent-), tribe, nation, + -ial.] Existing between tribes or nations; interna-

Interglacial climate, epoch. See *climate,

**epoch.

interglacialism (in-ter-glā'shial-izm), n. [interglacial + -ism.] The belief that the glacial
period was made up of glacial and interglacial
period was made up of glacial and interglacial
sense; interjectionary.

interglacialist (in-ter-gla'shial-ist), n. [in-terglacial + -ist.] One who believes in interglacialism.

in a trigryph, one of the two spaces separating the three grooves.

intergradient (in-ter-gra'di-ent), a. [inter+ gradient.] In the theory of evolution, said of forms or species that grade or vary into each

We have the evidence of intergradient forms from very wide differences to very small ones.

The Independent, Jan. 26, 1899, p. 259.

intergrafting (in-ter-graf'ting), n. [inter-+ grafting.] The practice of grafting, as between two given forms or species: usually employed with the idea of reciprocal grafting

intergrow (in-ter-gro'), v. i.; pret. intergrew, pp. intergrown, ppr. intergrowing. [inter-+grow.] To grow together.

intergrowth, n. Specifically—2. In crystal., intercrystallization; the intimate union of two mineral species, often in parallel position, produced by simultaneous crystallization; also, one of the subindividuals involved in a composite growth of this character.—Graphic intergrowth. Same as graphic *texture.

intergular (in-tèr-gū'lär), a. and n. [inter+gular.] I. a. Lying between or just back of the gular shields of turtles.

Interligamentous (in'tèr-lig-a-men'tus), a. Same as *interligamentous.

Situated between or among the ligaments. interlineally (in-tèr-lin'ē-al-i), adv. By interlineally (in-tèr-lin'ē-al-i), adv. By interlineally (in-tèr-lin'ē-al-i), adv. By interlineally (in-tèr-lin'ē-al-i), adv. By interlineally (in-tèr-lin'ē-al-i), adv.

With the exception of one species, which lacks horny shields on the shell, the whole of these tortoises are characterized by the presence of an intergular shield, between the two gulars on the front of the plastron.

R. Lydekker, New Nat. Hist., V. 90.

II. n. 1. In herpet., a median, unpaired, horny plate covering the anterior end of the plastron in some of the Pleurodira or sidenecked turtles.—2. In ichth., a bony plate lying just back of the chin, between the rami of the jaw, as in the fresh-water dog-fish, Amia.

the jaw, as in the fresh-water dog-fish, Amia. interhemal, n.—Aggregated interhemal. Same as *hypural. Starks. Synonymy of the Fish Skeleton, p. 526. interhemispheral (in-tèr-hem-i-sfē'ral), a. [inter- + hemisphere + -all.] Same as *interhemispheric. Buck, Med. Handbook, II. 187.—Interhemispheral sulcus. See *nulcus. interhemispheric (in-tèr-hem-i-sfer'ik), a. [inter- + hemisphere + -ic.] Situated between two hemispheres; specifically, between the two cerebral hemispheres. Buck, Med. Handbook, II. 256.

book, II. 256.

interim, n. 3t. Something done in an inter-

al.

This child of fancy that Armado hight,
For interim to our studies shall relate
In high-born words the worth of many a knight
From tawny Spain lost in the world's debate.

Shak., L. L. L., i. 1.

An intergenerant, or intergenerating group, is a group interimistic, a. 2. Provisional; occurring in of individuals so situated and so endowed that they freely cross with each other.

J. T. Gulick, in Trans. Linnean Soc. London, Zool., [1888, p. 200. [1888, p. 200. [1888, p. 200. [1888, p. 200. [1890]]]

Intergenerating (in-ter-jen'e-rā-ting), a. Intergenerating (in-

interionic (in ter-i-on'ik), a. [inter- + ion + -ic.] Acting between ions.

The deviations between the two values are, however, in most cases easily explainable by a consideration of the interionic forces, which probably exert an effect even at dilutions at which the intermolecular forces are negligible, and, further, of the complex ions which are so often formed in solution.

Nature, Nov. 19, 1903, p. 65.

interisland (in-ter-ī'land), a. [inter-+island1.] Between islands; belonging in common to several islands.

She [the "Relief"] was finally abandoned for hospital purposes and turned over to the Quartermaster's Department for use as an inter-island transport in the Philippines.

Buck, Med. Handbook, IV. 739.

interjaculatory (in-ter-jak'ū-lā-tō-ri), a. Of the nature of an inserted ejaculation: as, interjaculatory comments.

interjectionalize (in-ter-jek'shon-al-īz), v. t.; pret. and pp. interjectionalized, ppr. interjectionalizing. To turn into an interjection. interjectorily (in-ter-jek'tō-ri-li), adv. Inter-

sense; interjectionary.

[in- interjointal (in-ter-join'tal), a. [inter- + joint *signaling.

inter- + -all.] In geol., between joints; occurring interlocutive (in-ter-lok'ū-tiv), a. Relating to interlocution; interlocutory.

1. 404.

Interglyph (in'ter-glif), n. [L. inter, between, + Gr. λνφή, a cutting, carving.] The space between any two grooves or incisions; especially, in a triglyph, one of the two spaces separating the three grooves.

Intergradient (in-ter-grā'di-ent), a. [inter-tyradient] In the theory of evolution, said of forms or species that grade or vary into each other, or of grades between two given forms.

In unar, and
The great interlacustrine plateau.

Geog. Jour. (R. G. S.), XV. 179. interlamellation (in-ter-lam-e-la'shon), n. [L. inter, between, + lamella, lamella, + -ation.] The placing of one lamella or layer between others, or the state of being so placed. interlaminated, a. 2. In geol., interstratified.

Igneous rocks everywhere interlaminated with lime-one. Geog. Jour. (R. G. S.), XIII. 37.

interlatitudinal (in-ter-lat-i-tū'di-nal), a. [L. inter, between, + latitudo (-din-), latitude, + -al¹.] Lying between designated parallels of latitude.

interligamentous (in'tèr-lig-a-men'tus), a. Situated between or among the ligaments. interlineally (in-tèr-lin'ē-al-i), adv. By inter-

lineation. interlineate (in-ter-lin'ē-āt), v. t.; pret. and pp. interlineated, ppr. interlineating. [ML. interlineare (pp. -atus): see interline1.] To write or print between the lines of; insert between lines; write or print in alternate

lines. interlingual (in-ter-ling'gwal), a. Relating to two or more languages: as, interlingual alphabet; interlingual geographical data.

interlobar (in-ter-lō'bar), a. [inter- + lobe + -ar³.] Situated between two lobes, as of the

lung

interlobate (in-ter-lō'bāt), a. [inter- + lobe + -ate¹. The proper form is interlobar.] Situated between lobes; specifically, in geol., lying between adjacent glacial lobes, as deposits.

These at length united in one general ice sheet, but when they retired they assumed again their lobate forms outlined by moraines, and finally allowed an uncovered interlobate area of the high lands about the region of the Upper Mississippi. Science, March 29, 1901, p. 510.

Interlobate moraine. See *moraine.
interlocal (in-tèr-lō'kal), a. [L. inter, between, + locus, place, + -all.] Situated between, belonging to, or connecting several places.

places.

interlocally (in-ter-lo'kal-i), adv. In an interlocal position; by way of connecting places or localities.

interlocate (in-ter-lo'kāt), v. t.; pret. and pp. interlocated, ppr. interlocating. [inter-+ locate.] To place or locate between (other

interlock, v. I. intrans. 2. In geog., to be involved together: specifically applied to the headwaters of two different drainage systems which dovetail together yet flow in opposite

II. trans. 2. To cross-lock or lock in combination; lock so that unlocking can be effected only under certain conditions, or after certain other motions have previously been made.

interlocker (in-ter-lok'er), n. Any mechanical, electric, or pneumatic device for locking the levers of a railroad switching or signaling system; any device for controlling mechanism system; any device for controlling mechanism designed to perform only one movement at a time to the exclusion of all other movements. The most simple are catches, locks, or other mechanical appliances designed to prevent the movement of any and all other levers except the one in actual use. interlocking (in-ter-lok'ing), n. The act of locking together or in combination, as in a railway-switch and signal system. See interlocking system of signals, under interlock, and **simaling**

interlocutor, n. 3. in negro middleman. See middleman, 4. interlude (in terlud), v.; pret. and pp. interluded ppr. interluding. I. trans. To insert luded, ppr. interluding. between, as an interlude.

To act as an interlude: come II intrans. between other things.

Some pretty interluding discourse.
Quoted in Southey, Doctor, interchapter xiv. interlunation (in ter-lu-na'shon), n. [inter-+ lunation.] In astron., the period between the old and the new moon; figuratively, a blank or dark interval. N. E. D.

intermammary (in-ter-mam'a-ri), a. [L. inter, between, + mamma, breast, + -ary.]
Situated between the mamme or breasts.
Buck, Med. Handbook, I. 78.

intermammillary (in-ter-mam'i-la-ri), a. Same as *intermammary.

intermandibular (in'ter-man-dib'ū-lär), a. [inter- + mandibular.] Lying between the mandibles or rami of the under jaw.

intermarginal (in-ter-mar'ji-nal), a. [inter-+ marginal.] Situated between the margins.

Longer spines with intermarginal plates, purplish and bluish color and larger-sized individuals, are the characters usually distinctive of A. erinaceus. Science, Jan. 10, 1902, p. 61.

intermarine (in'ter-ma-ren'), a. [intermarine.] Situated between seas; carried on between seas or on the sea.

The contention has been raised that large power stations producing electric waves will therefore play havo with Hertzian wave telegraphy on a smaller scale, such as the ship to shore and internarine communication.

Pop. Sci. Mo., Nov., 1903, p. 56.

intermaxilline (in-ter-mak'si-lin), n. [inter-+ maxilla + -ine1.] The premaxillary bone, the anterior of the two large bones which form the upper jaw in fishes. It usually bears teeth in the Acanthopteri. Starks, Synonymy of the Fish Skeleton, p. 516.

intermedial, a. II. n. A fissure in the parietal lobe of the brain. Amer. Anthropologist,

Oct.-Dec., 1903, p. 626.

intermediary. I. a.—Intermediary body. Same as **amboceptor.

II. n. 2. Same as nerve of Wrisberg (b) (which see, under nerve).

intermediate, a. 2. In musical notation, of sharps or flats, accidental; not in the signature.—Intermediate moraine, yield. See *moraine, *yield.

intermediatory (in-ter-mē'di-a-tō-ri), a. Per-taining to or of the nature of an intermediator. intermental (in-ter-men'tal), a. [L. inter, be-tween, + mens (ment-), mind, + -al¹.] Be-tween mind and mind. See the extract.

Suppose that you communicate your ideas to me by means of language. Here an event in your mind is followed by an event in mine, and the relation is obviously causal. On such inter-mental causal relations all human intercourse depends.

C. A. Strong, Why the Mind has a Body, p. 242.

intermetallic (in-ter-me-tal'ik), a. Intermediate as regards two metals; partaking of the nature of two metals; formed by the combination of two metals. Rep. Brit. Ass'n Advancement of Sci., 1900, p. 131.

intermittence-tone (in-ter-mit'ens-ton), n.

See *tone1.

intermittent, n.— Anticipating intermittent, an intermittent malarial fever in which the paroxysms appear at an earlier hour in each recurring period.

intermodification (in-ter-mod'i-fi-kā'shon), n. Reciprocal modification.

From the balance or intermodification between the two, De Quincey, Logic of Polit. Econ., p. 140.

intermont (in-ter-mont'), a. [L. inter, between, + mons (mont-), mountain.] Same as intermontane.

The third, introduced by an uplift of less amount, a relatively brief episode up to to-day, inasmuch as it has permitted only the erosion of narrow valleys in the floor of the weak-rock intermont peneplains.

W. M. Davis, in Science, March 8, 1901, p. 396.

intermorainic (in termo-rā'nik), a. [inter-+ moraine + -ic.] Situated or existing + moraine + ic.] Situated or existing between moraines; pertaining to the region between two moraines, or to the time intervening between the formation of successive moraines. J. Geikie, The Great Ice Age,

intermountain (in-ter-moun'tan), a. Situated between mountains; intermontane.

He has undertaken the study of the anthropology of the Indian races in this intermountain region. Science, June 12, 1903, p. 952.

interlocutor, n. 3. In negro minetrelsy, the intermuscular, a. II. n. One of the ray-like middleman. See middleman, 4. epipleural bones in fishes that are attached to the ribs or just above them. Starks, Synonymy of the Fish Skeleton, p. 525.
intermutant (in-ter-mu'tant), n. [L. inter-, be-

tween, + mutans (mutant-), ppr. of mutare, change.] In math., a permutant having the blanks of each set in one column. Cayley. intermutule (in-ter-mū'tūl), n. [inter- + mu-

tule.] In classical arch., the space between two mutules, as on the under side of a cornice.

mutues, as on the under side of a cornice.

intern, v. t. 3. Specifically, to confine (a ship
of a belligerent) in a neutral port into which it
may put: a duty of the neutral power, under the
provisions of international law, in time of war. At Woosung are now anchored seven Russian colliers, which will doubtless be interned. N. Y. Times, June 7,

internal, a. 6. To be taken internally, as a medicine.—7. Applied to a student who has studied in a college of an examining university, as opposed to an external student, or one who studied in a college not belonging to that institution.—Internal armor, a backing for main or outboard armor, or for transverse bulkheads which extend from side to side and inclose the battery, protecting it against a raking fire. These bulkheads extend from the water-line to the lower part of the upper deck.—Internal contact, speech.—See *contact, *speech.—Total internal reflection.

internalist (in-ter'nal-ist), n. [internal + -ist.] Same as *internist.

internalization (in-ter'nal-i-zā/shon), n The act of internalizing; the fact or condition of being internalized or made subjective and independent of outside objects .- 2. That which is internalized.

of some reptiles, lying between the nasals or nasal shields. *Proc. Zool. Soc. London*, 1903,

internat (an-ter-nä'), n. [F., < interne, an intern. The E. form would be *internate.] The office filled by an intern.

Four years later, he obtained the *internat*, in which capacity he spent four years more in the hospitals of Paris, after which he was graduated doctor medic. Nature, June 4, 1903, p. 105.

internat. An abbreviation of international.

International Bureau of the American Republics. See *bureau.—International code. See *code.—International Polar Commission. See *commission1.

Internationalism, n. 2. [l. c.] Specifically, the principle of forcing a somewhat disorgan-ized or weak country to submit to the combined control or protection of several stronger nations.

The investment proved most remunerative, and helped very materially to save the country from bankruptcy and internationalism. The danger of being again subjected to the evils of an international administration was very great, for the London Convention contained a stipulation to the effect that if Egypt could not pay her way at the end of two years, another International Commission would be appointed.

Encyc. Brit., XXVII. 706.

internationalist, n. 3. An upholder of internationalism, in either sense.

internationality (in-ter-nash-q-nal'i-ti), n.
The character or quality of being international or of being imbued with international sentiment.

internationalization (in-ter-nash'on-al-i-zā'shon), n. The act of internationalizing. See *internationalism, 2.

internationalize, v. t. 2. To bring or force (a weak country or territory) under the control or protection of several stronger nations. See *internationalism, 2.

internervular (in-ter-ner'vū-lār), a. [inter-+ nervule + -ar³.] In entom., situated between the nervules or wing-veins: said of the maculation of a lepidopter's wing. Proc. Zool. Soc. London, 1897, p. 13.

internidal (in ter nīd'al), a. [L. inter, between, + nidus, nest, + -ül.] Between different nests: as, the relationships of a symbiotic character between different colonies of insects such as ants or termites occupying different interpenetrant (in-ter-pen'e-trant), a.

internist (in-ter'nist), n. [L. internus, internal, + -ist.] One who treats systemic diseases interpermeate (in-ter-per me-at), v. t.; pret. or those of the internal organs not amenable and pp. interpermeated, ppr. interpermeating. to operative measures; a physician, as distinguished from a surgeon.

Ophthalmologists of high repute and many internists ('general physicians') of experience and authority.

Science, A., vil 29, 1904, p. 696.

internobasal (in-ter-nō-bā'sal), a. [L. inter-nus, internal, + basis, base, + -all.] In entom., pertaining to the hind border of the wing next the body, in Lepidoptera. Also proximocaudal. Proc. Zool. Soc. London, 1898, p. 428.

internodal. I. a. 3. Lying between (and usually alternate with) the nodal joints: applied to joints or segments comprising the column of the *Crinoidea* (those bearing no lateral appendages or cirri)

An internodal joint. II. n.

internode, n. (c) In zool.: (2) The contracted portion of the shaft of a feather between the alight swellings where the barbs are given off. (d) In acoustics, the loop or part of a vibrating string between two nodes.—Internode of Ranvier, the portion of a nerve-fiber between two nodes of Ranvier (which see, under node).

internodular (in-ter-nod/ū-lār), a. [inter-+
nodule+-ar3.] Situated between two nodules.

Buck, Med. Handbook, I. 605. internuclear, a. 2. Situated between the nuclear layers of the retina.

internunciatory (in-ter-nun'gi-ā-tō-ri), a. Same as internuncial.

internuptial (in-ter-nup'shal), a. 1. Relating to intermarriage.—2. Relating to the period elapsing between two marriages of the same person.

Interocular distance. See *distance.

interopercular, a. II. n. Same as interoper-culum. Starks, Synonymy of the Fish Skoleculum. Stoton, p. 515.

Interorbital vacuity. See *vacuity.

internalized (in-ter'nal-iz), v. t.; pret. and pp. interosculate, v. i. 2. In biol., to form a coninternalized, ppr. internalizing. To make ininternal; invest with subjectivity or with inwardness; bring into the perception of the
world of thought.
internasal, a. II. n. One of a pair of dermal
shields which form part of the head-covering
of some partition between two species or varieties by
intermediate forms.—3. In anat., to form a
communication between different structures,
such as blood-vessels.
Interosseous arteries, veins. See *artery,
*vein.

interossicular (in-ter-o-sik'ū-lär), a. Interosseous.—Interessicular ligament. See *ligament. interpalatine (in-ter-pal'ā-tin), a. and n. [inter- + palatine².] I. a. Lying between the palatines as, the interpalatine vacuity, found in the shalls of many hinds vacuity. in the skulls of many birds.—Interpalatine spine. See *spine.

II. n. In ornith., the antero-internal angle of the palatine where it rests against the sphenoid rostrum.

interpalmar (in-ter-pal'mär), a. and n. [inter-+ palmar.] I. a. Lying in the interradial areas between the palmars of the rays (in the calyx of the Crinoidea). See palmar.

II. n. An interpalmar plate.

interpalpebral (in-ter-pal'pe-bral), a. [L. inter, between, + palpebra, eyelid, + -all.] Situated between the eyelids. Buck, Med. Handbook, I. 80.

interpanel (in-ter-pan'el), n. In mural decoration, a space between panels. See *inter-

interpaneling (in-ter-pan'el-ing), n. panels collectively; ornamentation between panels, in mural decoration.

The paintings by Natoire of the story of Psyche, rest on the inter-panelling which separates the recesses. Lady Dilke, French Furniture and Decoration of XVIIIth

Interparietal shield. See *shield.

interparliamentary (in-ter-par-li-men'ta-ri), Existing between or mutually pertaining to parliaments of various nations, or legislative bodies in general.

interparoxysmal (in-ter-par-ok-siz'mal), a. [inter- + paroxysm + -all.] Occurring in the interval between successive paroxysms.

Interpeduncular ganglion. Same as *ganglion isthmi.

interpellant (in-ter-pel'ant), n. [F. interpellant, ppr. of interpeller: see interpel.] In Continental politics, a member of a legislative assembly who interpellates or demands an explanation from the government.

interpellator (in "ter-pe-la'tor), n. Same as *interpellant.

ter- + penetrant.] Interpenetrating. Lewis, Crystallography, p. 463.

To pass into or through reciprocally; pervade; penetrate reciprocally.

interpetiolary (in-ter-pet'i-ō-lā-ri), a. Same as

interpliastering (in-ter-pi-las'ter-ing), n. In-terpliasters collectively. interplait (in-ter-plāt'), v. t. To braid or plait together, as locks of hair; braid or plait with something else, as locks of hair with ribbon; intertwine

intertwine.

interplical (in-ter-pli'kal), a. [L. inter, between, + plica, fold, + -all.] Situated between folds or plications: as, the interplical spaces in the gills of lamellibranchs. Philos. Trans. Roy. Soc. (London), 1903, ser. B, p. 161.

interplicate (in-ter-pli'kāt), v. t.; pret. and pp. interplicated, ppr. interplicating. To fold together; fold up between. Cotgrave.

interpolative (in-ter'pō-lā-tiv), a. Of the nature of or producing interpolation.

interpolator, n. 2. In elect., a form of relay for the automatic transmission to a submarine cable of signals received through another such

cable of signals received through another such

interpolypal (in-ter-pol'i-pal), a. [inter-+polyp+-al¹.] Situated between polyps: as, an interpolypal surface. Philos. Trans. Roy. Soc. (London), 1896, ser. B, p. 165.

(London), 1890, ser. B, p. 100.

interporiferous (in ter-pō-rif'e-rus), a. [inter-+ poriferous.] Lying between poriferous areas: applied to the imperforate plates in the test of some echinoids or sea-urchins.

interpose, v. t. 3. In chess, to put (a piece) between the checked king and the checking

piece. interposition, n. 4. In mineral., same as in

interpretational (in-ter-pre-tā'shon-al), a. Pertaining to or of the nature of interpretation.

interpretive (in-ter'pre-tiv), a. Same as interpretative.

interprotoplasmic (in-ter-pro-to-plaz'mik), a. [inter-+ protoplasmic.] Between or connecting the cytoplasmic portions of adjacent or contiguous cells: distinguished from intraprotoplasmic. Pop. Sci. Mo., Dec., 1901, p. 175.

interprotoplastic (in-ter-pro-to-plas'tik), a. Same as *interprotoplasmic.

interprotovertebral (in-ter-pro-tō-ver'tō-bral), a. [L. inter, between, + NL. protoverte-bra + -all.] In embryol., occurring between successive protovertebræ, or mesoblastic somites in the vertebrate embryo. Philos. Trans. Roy. Soc. (London), 1895, ser. B, p. 186.

interpterion (in-terp-te'ri-on), n.; pl. interpteria (-ā). [NL., \langle inter, between, + pterion.] In anthrop., the space between the two pteria. Amer. Anthropologist, Jan.-March, 1901, p. 36.

interpterygial (in-terp-te-rij'i-al), a. [L. inter, between, + Gr. πτερύγιον, wing, + -al¹.] In embryol., lying between the regions that give rise to the paired limbs in the vertebrate embryol. as, the interpterygial myotomes. Pop. Sci. Mo., Oct., 1902, p. 542.

interpterygoid (in-terp-ter'i-goid), a. Lying between the pterygoid bones.—Interpterygoid vacuity. See *bacuity.

interpterygoidal (in 'terp-ter-i-goi'dal), a. Same as *interpterygoid.

interpunct (in ter-pungkt), n. [L. inter, between, + punctum, point.] A mark or point of punctuation. Amer. Jour. Philol., XIX. 92.

interpunctuate (in-ter-pungk'tū-āt), v. t.; pret. and pp. interpunctuated, ppr. interpunctuating. [inter-+ punctuate.] To put points between words); punctuate.

interquarter (in-ter-kwar'ter), n. The space between two quarters; specifically, the space between one stud (quarter) in a partition, or the like, and the next.

interradiate (in-ter-rā'di-āt), v. i. [inter-+ra-diate.] To radiate into each other: as, an interradiating connection and dependence of the parts. N. E. D.

interradiation (in'ter-ra-di-a'shon), n. state of interradiating; the interpenetrating with rave of light.

with rays of light.

interradium (in-ter-rā'di-um), n.; pl. interradia (-ā). [NL. inter, between, + radius, ray.]

1. That portion of the disk of an ophiuran or brittle-star which lies between adjoining arms.

—2. The space between the radial plates in the calvx of a crinoid. Also called interray.

interray (in'ter-rā), n. Same as *interradium.

interregional (in-ter-rē'jon-al) a. [inter-tregion + -al¹.] Situated between different re-

gions: as, interregional zones. J. P. Smith, in Jour. of Geol., VIII. 695.

interregnal (in-ter-reg'nal), a. [interregn(um) + -al1.] Relating to or of the nature of an interregnum.

interrenal (in-ter-re'nal), a. and n. [L. inter, be-tween, + ren, kidney, +-all.] I. a. Situated within the kidneys or the renal organ. Nature,

Sept. 18, 1902, p. 516.

II. n. One of two long, slender bodies, lying in the median line of the ureter, which replace the suprarenals in elasmobranchs.

interresist (in 'ter-re-zist'), v. i. [inter-+ re-sist.] To react mutually, offering resistance as the particles of matter do when stress is applied which tends to bring them into closer proximity than that for which equilibrium

In the case of attractive forces we know nothing of their modus operandi except by the analogy of the collision of inter-resisting bodies, which makes us believe that something similar, we know not what, takes place in gravity, magnetism, electricity, etc.

Encyc. Brit., XXX. 667.

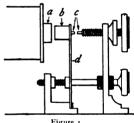
interresistance (in ter-re-zis'tans), n. Mutual impenetrability: as, the interresistance of the neighboring particles of a substance. Encyc. Brit., XXX. 667.

interrog. An abbreviation (a) of interrogation; (b) of interrogative; (c) of interrogatively. interrogant (in-ter'o-gant), n. An interro-

interrogational (in-ter-ō-gā'shon-al), a. Of the nature of interrogation; interrogative.

the nature of interrogation; interrogative.

interrupter, n. (a) In elect., a device for periodically making and breaking the primary circuit of an inductioncoll. The simplest form of interrupter, and that usually employed with small colls, is the Nef hammer (Fig. 1). It consists of a small block of iron, b, mounted at the free end of a vertical metallic strip or spring, d. When no current is flowing through the primary coll the position is such that the contact-point c is closed. When current flows through the primary coil, however, the core, a, attracts b and the contact-points are separated. The attraction between the iron armature, b, and the core ceases as soon as contact is broken; the spring is released, contact is renewed, the armature is again attracted, and in this way the spring is maintained in rapid vibration, opening and closing the primary circuit at every oscillation. When it is desired to regulate the frequency of interruption, the Neff hammer is modified by the addition of this weight the rapidity of interruption will depend. For large colls requiring heavy currents in the primary circuit, which would soon burn out the metallic contact-points of the interrupter just



circuit, which would soon burn out the metallic contact-points of the interrupter just described, the form of mercury - interrupter devised by Foucault, shown in Fig. 2, is frequently used. It consists of a vertical spring of flat steel, i, fixed below and carrying a cross-arm. To this is a ttached the armature, b, and the contact-points, c and d, which dip from above into glass cups containing mercury. The height of the mercury is so adjusted that when the interrupter is at rest the contact-point c is slightly submerged. The current in the primary circuit, which flows through the mercury into c, thence through the coil of the small electromagnet, a, causes the latter to attract the armature, b, whereupon c rises, breaking circuit as it lesves the mercury. The spring is then released, contact

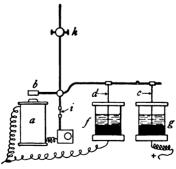
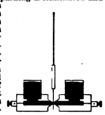


Figure 2. Foucault's Mercury-interrupter.

is again made at c, and the interrupter continues to oscillate with a frequency determined by the position of the weight, h. To prevent the formation of an arc and the evaporation of the mercury, a thick layer of spirits of turpentine, alcohol, or oil fills the upper portions of the mercury cups. In the modern development of the induction-coil, particularly as applied to the production of electric waves and of X-rays, numerous other forms of interrupter have been devised. In one of these, the

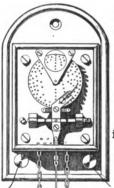




intersegmentally

turbine-interrupter, a centrifugal pump forces a jet of mercury against a metal plate, thus furnishing a path for the current. The circuit is made and broken by the intervention of a motor-driven too'thed wheel, the speed of which determines the frequency. In other forms of rotary motor-driven interrupters a platinum contact-point is plunged into mercury at each revolution of an eccentric movement attached to the shaft, or a well-insulated commitator is made to revolve in contact with brushes under oil. In the electrolytic interrupter of Wehnelt (Fig. 3), a lead plate, a, and a platinum wire, b, the latter entirely incased in a glass tube with the exception of one or two millimeters at the tip, are immersed in an electrolytic cell containing dilute sulphuric acid. When an electromotive force of from 25 to 80 volts is applied, the direction of the current being such that the lead plate is a cathode, the flow of current becomes rapidly internuitient and the cell forms a very effective interrupter. At higher voltages the platinum wire becomes aurrounded with gas and the action ceases. The frequency of interruption increases with the voltage and it depends likewise upon the surface of platinum exposed. Another form of electrolytic interrupter, and the voltage and it depends likewise upon the surface of platinum exposed. Another form of electrolytic interrupter, as leading partition with a small opening is eliminated and oxidation of the contact-points is prevented. The suddenness of interruption when no spark is present to carry the current is moreover advantageous in many lines of work with the induction-coil.— Electrolytic interrupter (a). Encirolytic interrupter, an interrupter of the gas, and the resistablishment of the current as made to pass through an electrolyte. Interrupter, an interrupter of the gas, and the resistablishment of the current is mercury polar. A first the pendulum shings, cuts through a fine mercury bridge joining two adjacent mercury polar. Extrile's interrupter, an interr

interrupter-clock (in-te-rup'ter-klok), n. A clockwork provided with attachments whereby



Interrupter-clock.
Interrupter-clock showing the letal tongue in position upon lecontact-disk. A movement of levertical carriage along the cak from right to left, or concresely, brings the tongue into ontact with different sets of pins. he pendulum and weight-chains

an electric circuit may be interrupted at rebe interrupted at re-curring intervals of time. In Bowditch's inter-rupter-clock, as made by Baltzar, a metal tongue is drawn over a series of pins set in a contact-disk. Ther-are ten sets of pins; and interruptions of the circuit may be effected, according to the position given to the tongue, at intervals of 1, 2. tongue, at intervals of 1, 2, 3, 4, 5, 10, 15, 20, 30, or 60

interscapular, n. 2. In the calyx plates of certain Cystoidea, like Caryocrinus, one of the plates of the third cycle representing the interradials of the Crinoidea.

of interscendental (in#tèr-sen-dent'al), a. [interscendent + -all.] Same as interscendent.

interscholastic (inter-skō-las'tik), a. Be-tween schools: as, interscholastic games.

intersect (in-ter-sekt'), n. [intersection., a point of intersection. [intersect, v.] In

intersegment (in-ter-segment), n. [inter-+ segment.] The space or area between two

interseminal (in-ter-sem'i-nal), a. [L. inter, between, + semen (semin-), seed, + -al¹.] Situated between or among the seeds, as the scales in the spadices of fossil cycads.

interseminal

A gentle wilderness interset with garden-hidden villas. T. A. Janvier, Christmas Kalends of Provence, p. 218. intersexual (in-ter-sek'sū-al), a. Existing between the sexes; exerted by one sex upon the

A subtle but potent intersexual influence is among the strongest factors of all adolescent sport.

G. S. Hall, Adolescence, I. 223.

intersow (in-ter-so'), v. t. 1. To sow or sprinkle between other things; intersperse: as, to intersow tares with the wheat.—2. To plant (a field or other ground) with seed, corn, etc., scattered at intervals; also figuratively: as, the heavens, intersown with stars.

interspace, n. 3. In osteol., one of the interstices of bone between the Haversian systems. interspinal, a. II. n. One of the interhemal or interneural bones of the fish skeleton. Jordan and Evermann, Amer. Food and Game

Frontal diameter, maximum (interstephanic) . . . 11. 4.
Rep. Bur. Amer. Ethnol., 1896-96, p. 144.

intersterility (in"ter-ste-ril'i-ti), n. [inter-+ sterility.] The sterility of individuals when Intersterility (in ter-ste-ril 1-ti), n. [inter-sterility.] The sterility of individuals when crossed or interbred; mutual infertility. Individuals of different species usually exhibit intersterility, which is often called the sexual bar. Its existence has been held to be opposed to the opinion that species have originated through the survival of the fittest, because a characteristic cannot count in the struggle for existence unless it is transmitted to descendants.

There are many curious phenomena connected with the susceptibility of the reproductive functions which make it probable that the common intersterility of species is an accidental result.

Encyc. Brit., XXIX. 373.

Interstitial cell. See *cell.

interstitium (in-ter-stish'i-um), n.; pl. inter-stitia (-#). [L.: see interstice.] In church arch., the place where the transept meets the nave and choir, this space often being covered

by a tower or cupola; the cross.

interstratified, a. 2. Noting volcanic surfaceflows which become interbedded between sediments, being thus younger than those below, and older than those above. Geikie, Text-book of Geol., p. 719.

interstream (in 'ter-strem), a. [in stream.] Lying between two streams.

interstriation (in'ter-stri-a'shon), n. A long narrow ridge between two narrow grooves or striæ. [Rare.]

Its delicate ridges or interstriations.

Dana, Geology, p. 719. intersubjective (in-ter-sub-jek'tiv), a. Exist-ing or obtaining between different individual minds: used only in the phrase intersubjective intercourse. See the quotation.

Two forms of experience have emerged in the course of our previous discussion: the experience of a given individual, and Experience as the result of intersubjective intercourse.

J. Ward, Naturalism and Agnosticism, II. 152.

intersuperciliary (in-ter-sū-per-sil'i-ā-ri), a. [inter- + superciliary.] In anthrop., located on the median line between the superciliary ridges.

ridges.
intersystematical (in-ter-sis te-mat'i-kal), a.
hetween systems (of stars). See Situated between systems (of stars). **solitary, 12. Sir W. Herschel.

intertemporal (in-ter-tem'po-ral), a. Situated

between the temporal fossæ.—Intertemporal width. See *width.
intertillage (in-ter-til'āj), n. [inter- til-lage.] In agri., tillage or cultivation between plants (as corn and potatoes), in contrast to tillage of the entire surface when no growing crop is on it. L. H. Bailey.
intertongue (in-ter-tung'), v. i.; pret. and pp. intertongued, ppr. intertonguing. [inter- +

jections and grooves in tonguing and groov- vention + -all.] ing in carpenters' work.

An intricate series of intertonguing areas.

Amer. Jour. Sci., Feb., 1904, p. 157.

interseptum (in-ter-sep'tum), n.; p.....

(-tä). Same as septum.

intersertal (in-ter-ser'tal), a. [L. intersertus, put between, +-all.] In petrog., a texture in igneous rocks produced by the presence of numerous small crystals in spaces between tabular or prismatic crystals of feldspar. It tabular or prismatic crystals of feldspar. It intertrabecula (in'ter-tra-bek'ū-lä), n.; pl. intertrabecula.] In anat., a cartilaginous rod lying between the trabeculæ in the embryonic skull: present also in the skull of the rod lying between the trabeculæ in the em. Interventricular furrow. See *furrow. bryonic skull: present also in the skull of the Interventobral ring. See *ring1. lamprey, where it is in two portions, termed intervertebrally (in-ter-ver'te-bral-i), adv. In respectively the anterior and posterior intertra- an intervertebral manner; between vertebræ. becula.

intertransversal (in "ter-trans-ver'sal), a. [inter-+ transverse + -all.] Situated between the transverse processes of the vertebræ; noting the intertransversalis muscle. See intertransversalis.

intertrappean (in ter-trap ē-an), a. [inter-+ trap + -e-an.] In geol., occurring between + trap3

+ trap3 + e-an.] In geol., occurring between sheets of trap.
intertriglyph (in-ter-trī'glif), n. [inter- + tri-glyph.] In a Doric frieze, the space between any two triglyphs. Also called metope, which term, however, is now used chiefly for the block of marble, sometimes sculptured, which is used to fill that space.

intertrinitarian (in-ter-trin-i-ta'ri-an), a. [inter- + trinit-y +-arian.] Existing or occurring between the persons of the Trinity.

or interneural bones of the fish skeleton.

Jordan and Evermann, Amer. Food and Game
Fishes, p. 536.

Interstate commerce law. See *law!.

Interstate (in-ter-trude), v. t.; pret. and pp.

Interstinal. Interstinal, a. a.

Interstale (in-ter-trude), ppr. intertruding. [LL. inter, between, + trudere, thrust.] To thrust (something) forcibly between.

In that so the fish skeleton.

Interstale (in-ter-trude), v. t.; pret. and pp.

Interstinal, a. a.

Interstale (in-ter-trude), ppr. interstuding. [LL. inter, between, + trudere, thrust.] To thrust (something) forcibly between.

In that so the fish skeleton.

Interstale (in-ter-trude), ppr. interstuding. [LL. inter, between, + trudere, thrust.] To thrust (something) forcibly between.

In the stinal, a. a.

Interstale (in-ter-trude), ppr. interstuding. [LL. inter, between, + trudere, thrust.] To thrust (something) forcibly between.

In the stinal, a. a.

Interstale (in-ter-trude), ppr. interstuding. [LL. inter, between, + trudere, thrust.] To thrust (something) forcibly between.

In the stinal, a. a.

Interstale (in-ter-trude), ppr. interstuding. [LL. inter, between, + trudere, thrust.] To thrust (something) forcibly between.

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Interstale (in-ter-trude), ppr. interstuding. [LL. inter, between, + trudere, thrust.] To thrust (something) forcibly between.

In the stinal, a. a.

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Interstale (in-ter-trude), ppr. interstuding.

Intersta

ameter. See *diameter. intertubercular (in-ter-tū-ber'kū-lär), a. [L. inter, between, + tuberculum, tubercle, +
-ar³.] Situated or occurring between tubercles. Lancet, March 16, 1901, p. 760.
intertwinement (in-ter-twin'ment), n. The state or action of intertwining; an intertwined

enlacement or network.

intertwist (in-ter-twist'), n. An intertwisted mass; the act of intertwisting or tangling.

interungular (in-ter-ung'gū-lār), a. [L. inter, between + ungula, hoof, + -ar3.] Situated the inter-

between, + ungula, hoof, + -ar³.] Situated or growing between the hoofs: as, the interungular glands of sheep.

interungulate (in-ter-ung'gū-lāt), a. Errone-

ous form for *interungular.
interurban (in-ter-er'ban), a. [L. inter, between, + urbs, city, + -an.] Existing between cities; connecting cities or towns; running or plying between two or more cities or towns: as, an interurban railway.

In the United States the original city lines have been extended into the suburbs, and interurban lines have been built, so that there are continuous electric lines of several hundred miles in length. The interurban service has developed electric railways.

**Encyc. Brit., XXVIII. 92.

interureteric (in'ter-ū-rē-ter'ik), a. [inter-+ ureter + -ic.] Situated between the ureters. Buck, Med. Handbook, I. 784.

intervaginal (in-ter-vaj'i-nal), a. [L. inter, between, + vagina, sheath, + -al¹.] Lying between, + vagina, sheath, + between two adjacent sheaths.

interval, n.— Cardio-arterial interval. See *cardio-arterial.—Interval of Sturm, in optics, the distance between the two principal meridians of the maximum and minimum curvatures of a refracting surface. Also called focal interval.—Post-Kansan interval, an interglacial epoch or period which followed the Kansan ice advance of the glacial period. J. Geikie, The Great Ice Age, p. 757.

intervallic, a. 2. Pertaining to an interval in any sense.

inter-valve (in'ter-valv), a. In steam-engines, noting the space which is between the throttleand slide-valves.

intervalvular (in-ter-val'vū-lär), a. Lying between valves.

tween vaives.

intervascular (in-ter-vas'kū-lär), a. [L. inter,

- arsculum. vessel, + -ars.] Lying between, + vasculum, vessel, + -ars between blood-vessels or other structures.

intervein (in-ter-van'), v. t. [inter- + vein.] To intersect with or as with veins.

interveniency (in-ter-ve'nien-si), n. Same as intervenience.

tongue.] To fit into each other, as do the pro- interventional (in-ter-ven'shon-al), a. [inter-Of the value of or characterized by intervention.

interventive (in-ter-ven'tiv), a. [intervent(ion) -ive.] Pertaining to, characterized by, or tending to intervention.

interventral (in-ter-ven'tral), n. [L. inter, between, + venter (ventr-), belly, + -all (see ventral).] One of a pair of cartilages on the ventral side of the notochord whose development forms the intercentrum or hypocentrum: commonly used in the plural.

intervesicular (in-ter-ve-sik'ū-lär), a. [L. inter, between, + resicula, vesicle, + -ar8.]
Situated between little cavities or vesicles; specifically, in geol., noting the walls of the cavities of a pumiceous rock.

intervisibility (in-ter-viz-i-bil'i-ti), n. The possibility or fact of being intervisible or mutually visible.

intervocal (in-ter-vo'kal), a. Same as interpocalic.

intervolute (in'ter-vō-lūt'), n. In arch., in an Ionic or composite capital, the space between the volutes or scrolls.

interzonal (in-ter-zō'nal), a. [L. inter, between, + zona, zone, + -all.] Being or lying between zones.—Interzonal fibers. See *fiber1. intestin, a. and n. A simplified spelling of

4. Domestic: same as intestine, [Rare.]

"Tis the sword of Castruccio, O King,—
In that strife of intestinal hate,
Very famous!"
Mrs. Browning, Sword of Castruccio Castracani, st. 5.

Intestinal croup, sinus. See *croup1, *sinus. intestino-vesical (in-tes "ti-nō-ves 'i-kl), a.

Relating to the intestine and the bladder. intimal (in'ti-mal), a. [intima + -all.] Relating to the intima or lining membrane of a blood-vessel. Buck, Med. Handbook, II. 98.

intimidative (in-tim'i-dā-tiv), a. [intimidate +-ive.] Having power to intimidate: as, an intimidative policy. Giddings, Prin. of Sociol., p. 112.

intimity (in-tim'i-ti), n. [F. intimité, < intime, \(\lambda \) L. intimus, intimate: see intime. \[\rac{1}{2} \] 1. Intimate association; intimacy. \(\rac{2}{2} \). Intimate quality; inward or inner nature; close seclusion or privacy.

in-toe (in'tō), n. Same as *hallux valgus. in-toed (in'tod), a. [$in^1 + toe + -ed^2$.] Having the toes turned in or inward.

intoxication, n.—Acid intoxication.

intoxicative (in-tok'si-kā-tiv), a. [intoxicate + -ive.] Causing intoxication; specifically, poisonous.

intr. An abbreviation of intransitive.

intra-acinous (in tra-as'i-nus), a. [L. intra, within, + NL. acinus + -ous.] Situated within an acinus, in any sense.

intra-appendicular (in'tra-ap-en-dik'ū-lar),
a. [L. intra, within, + appendicula, dim. of appendix, + -ar3.] Situated or occurring within the appendix vermiformis.

Finkelstein has suggested the possibility of the production of a diverticulum from increased intra-appendicular pressure following occlusion of the mouth of the appendix and consequent collection of secretion.

M. H. Fischer, in Jour. Exper. Med., Jan. 15, 1901, p. 347.

intra-arachnoid (in'trä-a-rak'noid), a. Situated within, or pertaining to the interior of, the arachnoid membrane.

intra-articular (in'trä-är-tik'ū-lär), a. [L. intra, within, + articulus, a joint, + -ar³.] Situ-

ated or occurring within a joint.

intra-atomic (in'trä-a-tom'ik), a. [intra-+atom+-ic.] Situated or acting within an atom. Nature, June 16, 1904, p. 151.

intra-aural (in"trä-â'ral), a. [L. intra. within, + auris, ear, + -all.] Situated or occurring inside of the ear.

intra-auricular (in'trä-â-rik'ū-lär), a. [L. intra, within, + NL. auricula, auricle, + -ar8.] Situated within an auricle, specifically within one of the auricles of the heart.

intrabiontic (in'trä-bi-on'tik), a. [L. intra, within, + Gr. $\beta i \sigma c$, life, + $\delta \nu$ ($\delta \nu \tau$ -), neut. of $\dot{\nu} \nu$, being.] Of or pertaining to that which

intrabiontic

intrabred (in-trä-bred'), a. [intra- + bred'.]
Bred within the limits of the pure stock or race or tribe.

The "purest" race is for me the one which has been isolated, intrabred, and selected for the longest period.

Biometrika, Nov., 1903, p. 511.

isolated, intrabred, and selected for the longest period.

Biometrika, Nov., 1903, p. 511.

intrabronchial (in-trä-brong'ki-al), a. [L. intra, within, + bronchia + -al¹.] Situated or occurring within a gland, tra, within, + bronchia + -al¹.] Situated or occurring within the bronchial tubes. Jour.

Exper. Med., Oct. 25, 1900, p. 182.

intracanalicular (in'trä-kan-a-lik'ū-lär), a. [L. intra, within, + canaliculus, a little channel, + -ar³.] Situated or occurring within a ligament, specifically the broad ligament of the uterus.

Intraligation of the uterus.

intracanonical (in trä-ka-non i-kal), a. [in-intralocular (in-trä-lok'ū-lär), a. [L. intra, tra-+canon+-ic+-all.] Of or pertaining to that which is contained within the canon of within the loculi (chambers or cellular spaces) Holy Scripture.

intracarpal (in-trä-kär'pal), a. [L. intra, within, + NL. carpus, + $-al^1$.] Situated within the tarsus, or among the bones of the wrist in man. Buck, Med. Handbook, I. 553.

in man. Buck, Med. Handbook, I. 553. Intracellular pangenesis. See *pangenesis. intrachordal (in-trä-kôr'dal), a. [intra + chord(a) + -all.] Occurring or situated within the chorda, or notochord of the vertebrate embryo. Philos. Trans. Roy. Soc. (London), 1896, ser. B, p. 10.

intracolial (in-trä-sē'li-al), a. [L. intra, within, + Gr. κοιλία, belly, + -all.] Situated or occurring within any body-cavity or a ventricle of the brain.

intracolic (in-trä-kol'ik), a. [L. intra, within, + Gr. κόλον, colon, + -ic.] Situated or occurring within the colon.

intracollegiate (in the ko-le ji-at), a. [L. intra, within, + E. collegiate.] Taking place or occurring within a college or university: opposed to intercollegiate: as, intracollegiate sports. New York Evening Post, Dec. 22, 1905.

intracutaneous (in'trä-kū-tā'nē-us), a. [L. intra, within, + cutis, skin: see cutaneous.] Lying within the substance or between the layers of the skin.

intrad (in'trad), adv. [L. intra, within, +-ad3.]
In a direction toward the interior of the body. intradermic (in-trg-der'mik), a. [L. intra, within, + Gr. δέρμα, skin, + -ic.] Same as *intracutaneous.

intraduodenal (in'trä-dū-ō-dē'nal), a. [L. intra, within, + duodenum + -al'.] Situated or occurring within the cavity of the duodenum. intradural (in-trä-dū'ral), a. [L. intra, within, + NL. dura + -al'.] Lying between the layers

+ NL. dura + -ac., of the dura mater.

intra-ecclesiastical (in'trặ-e-klē-zi-as'ti-kal), a. [L. intra, within, + ecclesia, church: see ecclesiastical.] Of or pertaining to that which cocurs or exists within the church.

Existing within; internal; inner.

intraneural (in-trặ-nū'ral), a. [L. intra, within, + Gr. νεύρον, nerve, + -al.] Situated or occurring within the substance of a nerve.

Ruck Med. Handbook, II. 110.

intra-epiphyseal (in tra-ep-i-fiz e-al), a. [L. intra, within, + epiphysis + -e-all.] Situated or occurring within the epiphysis: noting resection performed through the epiphysis of a long bone: opposed to extra-epiphyseal resec-tion, in which the division is made through the shaft of the bone.

intrafetation (in tra-fē-tā shon), n. [L. intra, within, + fetus + -ation.] The development in trans. An abbreviation of the Latin in transof a fetus or part of a fetus within another situ, in course of transit. fetus. Also called fetal inclusion and fætus intransigeance (an-tron-sē-zhons'), n. [F.:

in fætu.

intrafilamentar (in'trä-fil-a-men'tär), a. [intra-filamentar (in'trä-fil-a-men'tär), a. [intra-filamentar (in'trä-filamen'tar), a. [intra-filamentar, argumentar), a. [intra-filamentar, argumentar, arg

intraglacial (in-trä-glā'shial), a. [intraglacial.] Situated or occurring within the mass of a glacier; englacial: as, intraglacial

drift. Dana, Manual of Geol., p. 958.
intraglandular (in-trä-glan'dū-lär), a. [L. intra, within, + NL. glandula, gland, + -arš.]

Intracanalicular growth is to be noted compressing intralingual (in-trä-ling gwal), a. [L. intra, some of the ducts.]

Jour. Med. Research, Dec., 1907, p. 306. within the tissues of the tongue.

of any structure.

[L. intra, intramammary (in-trä-mam'a-ri), a. [L. inted within tra, within, + mamma, breast, + -ary.] Situated within the breast.

Science, June 5, 1903, p. 904.

Intransparency (in-trans-par'en-si), n. [intransparency] (in-trans-par'en-si), n. [intrans-par'en-si] (in-trans-par'en-si), n. [intran

intramatrical, a. (b) Noting that part of a fungus or parasitic growth which lies within the host plant. See *extramatrical.

The connection of the ascus-layer thus formed with the atramatrical mycelium can be seen even when the asci The connection of the accessing to the second when the asci are mature.

De Bary (trans.), Compar. Morphol. and Biol. of Fungi, 10, 266.

intramental (in-trä-men'tal), a. [L. intra, within, + mens (ment-), mind, + -all.] Existing within the mind: opposed to *extramental. The intra-mental and the extra-mental objects are not different in kind as the Cartesians supposed, but rather, as Aristotle and the scholastics maintained, they differ only in position and in relational context.

Jour. Philos., Psychol. and Sci. Methods, May 26, 1904,

intramesenterial (in'trä-mez-en-tē'ri-āl), a. [intra- + mesentery + -al¹.] In cœlenterates, situated within a mesentery or inclosed between the two mesenteries of a pair.—Intramesenterial space, in cœlenterates, as the sea-anemones and corals, an endocœle. Also called intraseptal space. sports. New York Evening Post, Dec. 22, 1900.
intracorporeal (in'tr\(\beta\)-k\(\beta\)-p\(\beta\)'r\(\beta\)-all, a. [L. intracorporeal] (in'tr\(\beta\)-k\(\beta\)-p\(\beta\)'r\(\beta\)-k\(\beta\)-p\(\beta\)'r\(\beta\)-k\(\beta\)-p\(\beta\)'r\(\beta\)-p\(\beta\)-k\(\beta\)'r\(\beta\)-k\(\beta\)'r\(\beta\)-k\(\beta\)'r\(\beta\)-k\(\beta\)'r\(\beta\)-k\(\beta\)'r\(\beta\)-k\(\beta\)'r\(\beta\)-k\(\beta\)'r\(\beta\)-k\(\beta\)'r\(\beta\)-k\(\beta\)'r\(\beta\)-k\(\beta\)'r\(\beta\)-k\(\beta\)'r\(\beta\)-k\(\beta\)'r\(\beta\)-k\(\beta\)'r\(\beta\)-k\(\beta\)-k\(\beta\)'r\(\beta\)-k\(\beta\)-

intramyocardial (in'trä-mī-ō-kār'di-al), a. tra, within, + ML. parochia, parish, + -al'l.]
[L. intra, within, + Gr. μ̄υς, muscle, + καρόία, Occurring or existing within a parish. heart, + -al'l.] Situated within the muscular intra partum (in'trä pär'tum). [L.] During wall of the heart. Buck, Med. Handbook, II.

intranarial (in-trä-nā'ri-al), a. [L. intra, be-Same as *intrapericaratat.

tween, + nares, nostrils, + -ial.] Within the intrapericardial (in 'trä-per-i-kär'di-al), a. nostrils: usually with some qualifying phrase [L. intra, within, + NL. pericardium + -all.]

L. indicata whether the anterior openings or Situated within the pericardium. Buck, Med. the posterior nares are meant.

Ante-natal, intra-natal, or neo-natal conditions.

Encyc. Brit., XXXI. 304.

intranidal (in-trä-nid'al), a. [L. intra, with-in, + nidus, nest, + -all.] 1. In neurol., being within a nidus or aggregate of nerve-cells: as, intranidal fibers.—2. In zoöl., being or occur-ring within a nest or colony of insects: opposed to *internidal.

intransigeance (an-tron-se-zhons'), n. [F.: see *intransigency.] 1. Same as *intransigency.—2. Intransigentism, especially in art. See *intransigeant.

exists or takes place within an organism. ated within the stomach. Athenæum, Sept. intransitable (in-tran'sit-a-bl), a. [in-3 + Weismann (trans.), Germ-plasm, p. 107.—Intra26, 1903, p. 419.
intransitable (in-transit + -able.] Not possible for transit; imbiontic selection. passable.

In intransitable gorges of the coast range of mountains, Geog. Jour. (R. G. S.), X. 64,

intransitive, a. 1. In gram.: (b) Noting the case which expresses the subject of the intransitive verb or the object of the transitive verb. (c) In Eskimo gram., noting the thing possessed. Also called objective. Barnum, In-

nuit Language, p. 12.
intransitivity (in-tran-si-tiv'i-ti), n. [intransitive + -ity.] The quality of being intransistuve + -aty.] The quality of being intransitive, in any sense. Specifically, in math. and logic:
(a) The quality or characteristic of being not transitive, that is, not necessarily transitive; that characteristic of a relation by which A's having it to B, and B's having it to C do not together always imply that A has it to C. (b) The quality or characteristic of being necessarily intransitive; that characteristic of a relation by which A's having it to B, and B's having it to C together always exclude A's having it to C.

The treatise proper extends over 39 pages, the successive headings being as follows: . . . Abelian groups, groups of order a power of a prime, Sylow's theorem and its extensions, Hamiltonian groups, transitivity, intransitivity.

Science, June 5, 1903, p. 904.

bodv.

Centrally placed intransparencies, which cover the upil.

Encyc. Brit., XXXI. 570.

intransparent (in-trans-par'ent), a. [in-3 + transparent.] Opaque; not transparent.

This newly-formed tissue [cicatricial in cornea] is always intransparent, and remains so, except in very young children, in whom it gradually, to a great extent, clears up.

Encyc. Brit., XXXI. 570.

Intranuclear cycle or stage, the life-cycle which is passed through by a parasitic micro-organism in the nucleus of one of the cells of its host: opposed to *cytoplasmic cycle or stage.

intra-oral (in-trä-ō'ral), a. [L. intra, within, + os (or-), mouth, +-al¹.] Situated or occurring within the cavity of the mouth.

Intra-orbital sulcus. See *sulcus.

intra-osteal (in-trä-os'tē-al), a. Same as in-

intra-ovular (in-tră-ō'vũ-lär), a. Situated within the egg or ovum. Compare *extra-

intraparochial (in'trä-pā-rō'ki-al), a. [L. in-tra, within, + ML. parochia, parish, + -al¹.] Occurring or existing within a parish.

intrapericardiac (in'trä-per-i-kär'di-ak), a. Same as *intrapericardial.

Handbook, I. 406.

intranatal (in-tră-nă'tal), a. [L. intra, with-intraperineal (in'tră-per-i-nē'al), a. [L. in, + natus, born, + -all.] Occurring during intra, within, + NL. perineum + -all.] Situabirth.

intraperiosteal (in'tra-per-i-os'te-al), a. Situated or occurring within or beneath the periosteum.

· These weapons with an increasing tendency of intra-periosteal growth reached a large size in width and length and remained permanent structures. Proc. Zool. Soc. London, 1902, p. 218.

intraperitoneally (in-trä-per'i-tō-nō'al-i), adv. Within the peritoneal cavity. Med. Record, March 28, 1903, p. 495.

intrapial (in-tra-pi'al), a. [L. intra, within, + pia (mater) + -all.] Situated or occurring within the meshes of the pia mater.

intraplacental (in'tra-pla-sen'tal), a. [L. in-tra, within, + placenta + -all.] Situated within the substance of the placenta.

intrapleural (in-tra-plo'ral), a. [L. intra, within, + pleura + -al¹.] Situated within the pleural cavity.

intraplical (in-trä-pli'kal), a. [L. intra, within, + plica, a fold, + -all.] Lying within a fold or plication; interlamellar.

Ciliated discs are situated on the sides of long spurs or ingrowths from the interlamellar (intraplical) edge of the

Roy. Soc. (London), 1896, ser. B, p. 100.

intrafissural (in-trä-fish'ūr-al), a. [intra-+
fissure + -all.] Situated within a fissure, as intransigency (in-tran'si-jen-si), n. In politics, of the brain. Buck, Med. Handbook, H. 189.

the quality of absolute irreconcilableness; between the poles: said of the region between intragastric (in-trä-gas'trik), a. [L. intra, dogged hostility; obstinate refusal to make the terminals of an electrolytic cell or between the poles of a magnet.

intrapontine (in - trä - pon'tin), a. [L. inma, intratympanic (in'trä-tim-pan'ik), a. [L. inwithin, + pons (pont-), bridge, + -ine¹.] Sit-tra, within, + tympanium + -ic.] Situated or usted within or passing through the pons Va-occurring within the tympanic cavity or drum Philos. Trans. Roy. Soc. (London), 1894, ser. B, p. 765.

motion of the body-wall.

intrapyretic (in'trä-pī-ret'ik), a. [L. intra, within, + Gr. πυρετός, fever, + -ic.] Occurring during the continuance of fever.

intraracial (in-trä-rā'sial), a. Occurring within a race. Compare with interracial.

The interracial correlation of the mean numbers of stamens and pistils is very much greater than the mean intraracial correlation between stamens and pistils, being to the latter nearly in the ratio of 12 to 7.

Biometrika, Feb., 1903, p. 152.

intrarectal (in-trä-rek'tal), a. [L. intra, within, + rectum + -al¹.] Situated within the rectum.

intrascrotal (in-trä-skrō'tal), a. [L. intra, within, + scrotum + -all.] Situated within the scrotum.

intraselection (in"trä-sē-lek'shon), n. of an organ or organism, with the survival of

in an obscure way.

J. M. Baldwin, Development and Evolution, p. 218. in an obscure way.

J. M. Baldwin, Development and Evolution, p. 218.

Intraseminal (in-trä-sem'i-nal), a. [L. intra, within a seed; also, admixed with the spermatic fluid. Nature, April 3, 1902, p. 519.—Intraseminal development, the entire series of changes undergone by the embryo in the transformation of an ovule into a mature seed.

Intraseptal (in-trä-sem'f-nal), a. [intra-+sentum intraseptal (in-trä-sep'tal), a. [intra-+sentum intro. An abbreviation of introduction.

That living Light which so proceeds from its Lucent susception.

That living Light which so proceeds from its Lucent susception.

The portion of bowel which contains the other in intussusception.

Intraseptal (in-trä-sep'tal), a. [intra-+sentum intro. An abbreviation of introduction. intraseminal (in-trä-sem'i-nal), a. [L. intra, within, + semen (semin-), seed, + -all.] Lying within a seed; also, admixed with the spermatic

intraseptal (in-trä-sep'tal), a. [intra-+septum intro. An abbreviation of introduction.

+ -all.] Situated within a septum: as, the intro-active (in-trō-ak'tiv), a. [intro-+ acintraseptal space between a pair of mesenteries in Anthora.—Intraseptal space. Same as
introceptive (in-trō-sep'tiv), a. [intro-+
introceptive (in-trō-sep'tiv), a. [intro-+

intraserous (in-trä-se'rus), a. [intra- + serum + -ous.] Occurring within the serum of the

blood.

intraspecific (in'trä-spē-sif'ik), a. [L. intra, within, + E. specific.] Relating to characters introessive (in-trō-es'iv), n. [L. intra, within, + E. specific.] Relating to characters introessive (in-trō-es'iv), n. [L. intra, within, + E. specific.] Relating to characters introessive (in-trō-es'iv), n. [L. intra, within, + esse, be, + -ive.] In gram., noting the case which have to do with the internal organization of species. Thus evolution is an intraspecific phenomenon and heterism is intraspecific diversification. Cook and Swingle.

introitus (in-trō-jek'shon), n. [L. see introit.]

In anat., the entrance leading into a canal or cavity.

In anat., the entrance leading into a canal or cavity.

In anat., the entrance leading into a canal or cavity.

In anat., the entrance leading into a canal or cavity.

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In anat., the entrance leading into a canal or cavity.

In anat., the entrance leading into a canal or cavity.

In anat., the entrance leading into a canal or cavity.

intrastitial (in-trä-stish'al), a. Situated or occurring within the cells or fibers of an organ: opposed to interstitial.

intrajection (in-trō-jek'shon), n. [L. intro, within, + -jectio(n-), throwing.] The act of throwing within.

intrastriate (in-tra-strī'āt), a. by G. Elliot Smith to emphasize the distinctive relations of the various occipital sulci of the human and ape brain to the cortical area which contains the stria Gennari.

intrasynovial (in'trä-si-nō'vi-al), a. tra, within, + NL. synovia + -all.] within the synovial cavity of a joint.

intratellural (in trä-te-lū ral), a. Same as intratelluric.

intra, within, + trabeculæ + -ar3.] Being with- introverse (in-tro-vers'), a. [L. introversus, in the trabeculæ or supporting tissue: as, an intratrabecular network of blood-vessels.

intratubal (in-trä-tū'bal), a. [L. intra, within, + tubus + -ull.] Being within a tube: usually noting the Fallopian or Eustachian tube.

intratubular (in-trä-tū'bū-lär), a. [intra- intrude, v. t.—Intruded sheet. See **sheet1.

tubule + -ar³.] Being within a tubule, especially within the renal tubules.

intrusive, a. 3. (b) Specifically, in geol. applied to those igneous masses which have

of the ear.

ser. B, p. 765.

intraprecuneal (in"trä-prē-kū'nē-al), n. A fissure in the precuneal region of the human brain anterior to the cuneus. Amer. Anthropologist, Oct.-Dec., 1903, p. 623.

At this moment . . . the intra- and extra-tympanic pressures are equalized. Buck, Med. Handbook, I. 619.

intra-urethral (in"trä-ū-rē'tbral), a. [L. intra, within, + urethra + -all.] Situated within the urethra.

brain anterior to the cuneus. Amer. Anthropologist, Oct.—Dec., 1903, p. 623.
intraprostatic (in 'tra-prostati'ik), a. [intraprostate + ic.] Situated or occurring within the prostate gland.

intraprostatic (in 'traintravaginal (in-tra-vaj'i-nal), a. [L. intra,
+ prostate + ic.] Situated or occurring within the vagina + -all.] Situated within the vagina.

intravertebrally (in-trä-ver'tē-bral-i), ad Within the body, or centrum, of a vertebra.

within the body, or centrum, of a vertebra.

This intravertebrally situated cartilage has been erroneously described as chordal cartilage.

H. Gadow, Amphibia and Reptiles, p. 12.

intravital (in-trä-vi'tal), a. [L. intra, within, + vita, life, + -all.] "Occurring during life.

intra vitam (in'trä vi'tam). [L.] During life.

— Intra-vitam staining, the staining of tissues during the life of the organism, in contradistinction to staining of the isolated parts after death. Such staining is more commonly spoken of as vital staining.

in-tree (in'tre), n. [Burm. eng or in + tree.]

Geepen the valley of (a stream).

If uplift permits a mature or old meandering river to entrench itself beneath its former flood plain, its new valley will be regularly curved, instead of irregularly crooked, as in its first youth.

W. M. Davis, Elem. Phys. Geog., p. 253.

+ selection.] In biol., a hypothetical struggle Int. Rev. An abbreviation of Internal Revenue. for existence between the constituent elements intrigent n II a Intriguing plotting. intrigant, n. II. a. Intriguing; plotting; manœuvering

That living Light which so proceeds from its Lucent Source that It is not disunited from It, nor from the Love which with them is intrined, through Its own bounty col-

introceptive (in-tro-sep'tiv), a. [intro-+ (re)ceptive.] Receiving within itself or its (re)ceptive.]
own bounds.

intromissible (in-trō-mis'i-bl), a. [L. intromissus, pp. of intromittere, intromit, + -ible.]
That can be intromitted or introduced.
intromissive (in-trō-mis'iv), a. That can intromit or let in (light); relating to intromis-

intrastromal (in-trä-strô'mal), a. [L. intra, introrsal (in-trôr'sal), a. Same as introrse. within, + NL. stroma + -all.] Lying within the stroma of any organ or other part.

introspectional (in-trôr-spek'shon-al), a. Pertaining to or of the nature of introspection.

[L. in- introsuction (in-trō-suk'shon), n. [intro- + Lying suction.] A sucking inward.

introsuscept (in"trō-su-sept'), v. t. and i. [L. me as intro, within, + suscipere (pp. susceptus), take in.] Same as *intussuscept.

intratesticular (in trä-tes-tik ū-lär), a. Sit-introtraction (in-trō-trak shon), n. [intro-traction (in-trō-trak shon), n. [intro-traction]. The process or act of drawing in-intratrabecular (in trä-trä-bek ū-lär), a. [I. ward.]

(intro + versus, turned inward: see introvert.] Introverted.

or inwrapping one thing within another; the coiling of something around itself.

forced their way between older rocks and have never reached the surface: contrasted with *extrusive. See intrusive rocks, under intrusive.— Intrusive sheets. See *sheet1.

II. n. In geol., a mass of igneous rock which has forced its way between older walls or strata, but has never reached the surface of

striate, but has never reached the surface of the earth. Intrusives occur as batholiths, laccoliths, intruded sheets, and dikes.

Believing that assimilation by magmatic action of some kind is responsible for practically all the chambers occupied by those intrusives with which he is more or less intimately acquainted.

R. A. Daly, in Amer. Jour. Sci., April, 1903, p. 272.

the prostate gland.

Intrapulmonary respiration, the respirator of the pulmonate Arachnida, where there is no respiratory motion of the body-wall.

Intrapulmonary respiration, the respiratory intrapulmonate Arachnida, where there is no respiratory cocurring within a vertebra + -all.] Situated or intubate (in'tū-bāt). v. t.; pret. and pp. intubation of the body-wall.

Intrapulmonary respiration, the respiration of the body-wall.

Intrapulmonary respiration, the respiration of the body-wall.

Intrapulmonary respiration, the respiration of the vagina.

Intrapulmonary respiration of the vagina.

Intrap cifically, perform intubation of the larynx.

Med. Record, July 25, 1903, p. 129.

intubator (in'tū-bā-tor), n. An instrument for inserting the tube in the operation of intubation.

intuent (in'tū-ent), a. [L. intuens (-ent-), ppr. of intueri, contemplate: see intuition.] Knowing by intuition; intuitive.

intuitionalist, n. 2. Same as intuitionist.

Hutcheson, Reid . . . Wilson and Hamilton . . . were all, more or less distinctively, intuitionalists.

Contemporary Rev., XI. 258. N. E. D.

rectum.

intrarachidian (in "trä-ra-kid'i-an), a. [intra-trachidian (in "trachidian (in "t intus, within, + suscipere (pp. susceptus), take in. Compare *introsuscept.] To take up into itself or into something else; invaginate.

A haunting tendency of modern conservatism to make ne post and ante-mortem life intussuscept with each

Amer. Jour. Relig. Psychol. and Education, May, [1904, p. 48.

those fittest for the organ or organism under the conditions in which it is placed.

Welsmann's "Intra-selection" also involves struggle, in an obscure way.

Intra-selection" also involves struggle, in an obscure way.

Intra-selection in this survival of the conditions in which it is placed.

Intra-selection in this survival of intra-selection in this survival of intra-selection. Intra-selection in this survival of intra-selection intra-selection in this survival of intra-selection in this sur

inulase (in'ū-lās), n. [inul-in + -ase.] A ferment which converts inulin into truitsugar.

inulate (in'ū-lāt), n. [inul-ic + -ate¹.] salt of inulic acid.

Inules: (i-nū lē-ē), n. pl. [NL. (Cassini, 1812), \(Inula + -cx. \] A large tribe of composite plants typified by the genus Inula, the elecam-

bility. It is contained in unripe Jerusalem artichokes. Also called soluble inulin. inutile, a. II. n. A useless thing.

A "what-not," whose shelves bore a mock orange, a plece of glass in a curious chunk . . . and other inutiles, which kept their place merely because long occupancy had given them a permanent right of existence. C. D. Stewart, Fugitive Blacksmith, it.

inv. An abbreviation (a) of invented; (b) of

inventor; (c) of invoice.

invaccination (in-vak-si-nā'shon), n. [in-2 + vaccination.] Inoculation with some other disease during the process of vaccination.

invaginator (in-vaj'i-nā-tor), n. An instrument used to introvert the tissues in the radical operation for hernia.

invar (in-var'), n. [invar(iable).] The tradename of an alloy of steel and nickel which, when made with 36.2 per cent. nickel, has a coefficient of expansion for heat which is virtually zero: hence its name. It was discovered by Dr. Guillaume. Sometimes called Guillaume alloy, and also Sevres alloy, from the fact that the investigation of its properties was made at Sèvres.

intratracheal (in-trā-trā'kē-al), a. [L. intra, within, + trachea + -al¹.] Situated or occurring within the trachea.

intratubal (in-trā-tū'bal), a. [L. intra, within, + troubal (in-trā-tū'bal), a. [L. intra, within, + tra, within, +

II. n. 2. An entity compounded of constituents, some of them subject to change or variation, which, despite this change, remains itself unchanged.— Natural invariant, an invariant constituted by the very nature of the thing to which

it pertains: thus, the product of an altitude by its base investigatory (in-ves'ti-gā-tō-ri), a. [investigatitude by the area of its base is a natural invariant for gate + -ory.] Of or pertaining to investigation of the product of an altitude by the area of its base is a natural invariant for the tetrahedron

the tetrahedron.

invasion, n. 4. In phytogeog., the phenomenon of the movement of plants from an area of one character into one of a different character, and their colonization in the latter. It includes, according to F. E. Clements, the ideas both of migration and of eccesis. (See *migration, 6, and *eccesis.) The same author distinguishes invasions as continuous or intermittent, complete or partial, temporary or permanent. First thus used by Goeze, 1882.

inventorized (in-ven'tō-rīz), v.; prep. and pp. inventorized, ppr. inventorizing. [inventory + -ize.] I. trans. To inventory; catalogue: as, to inventorize the furniture in a house.

II. intrans. To make an inventory.

Inverness coat, overcoat, or cape.

See

Inverness coat, overcoat, or cape.

inverse. I. a. 3. In logic, with conclusion as hypothesis and hypothesis as conclusion.

If, in the true statement x is y, we simply interchange the subject and predicate, without any restriction, we get the inverse statement y is x, which may be false.

G. B. Halsted, Theoret. Elem. of Geom., p. 4.

Inverse point. See *point1.

Inverse point. See *point1.

II. n. 2. In logic, a proposition made by simply interchanging the hypothesis and conclusion of another, without any restriction.—

3. In math., an inverse point, curve, function, ratio, proportion, etc.—4. In rouge-et-noir, the triangular space in which bets are placed when wagering that the first card dealt for a color will not be the carrie calculated at the first card dealt for a color was "to remove all tyrants from the try".

was "to remove an tyrans from the council of the same color as the one that wins the council of the same color as the one that wins the council of the same color as the one that wins the council of the same color as the one that wins the council of the same color as the one that try."

Inversion n.—Absolute inversion, the substitution of | a/x | for | x/a | where | x | denotes the absolute value of x.—Counter of inversion.—Diurnal inversion of the wind compared inversion.—Diurnal inversion of the wind compared inversion.—Diurnal inversion of the wind compared inversion.—Diurnal inversion, center of inversion.—Radius of inversion, the side of the square equivalent to the rectangle of the sects from the center of inversion to two inverse points.—Rule of inversion, the rule

was "to remove an tyrants from the council try."

invirile (in-vir'il), a. [in-3 + virile.] Not manly; effeminate; not virile.

Ovid in Pontus, paling for his Rome of inversion and disparted dames.

Lowell, Cathedral, 1. 292.

Inviscation (in-vis-kā'shon), n. [NL. *invisNg. and a queous ammonia. The substance so produced, however, varies in composition and is probnormally; effeminate; not virile.]

Not indem in a queous ammonia. The substance so produced, however, varies in composition and is probnormally; effeminate; not virile.]

Not indem in a queous ammonia. The substance so produced, however, varies in composition and is probnormally; effeminate; not virile.]

Not invision of inversion, the substance of inversion of inversion, the substance are controlled. (N13, or rather N24), readily changing to compounds containing hydronormally; effeminate; not virile.]

Not invision of inversion and aqueous ammonia. The substance of inversion of inversion of inversion, the substance are controlled. (N13, or rather N24), readily changing to compounds containing hydronormally; effeminate; not virile.]

Not invision on acetanilide. Also iodamide (i-ō'da-mid), n. A violently explantation of iodine and aqueous ammonia. The substance inversion, rouge-et-noir.

inversion. n.—Absolute inversion, the substitution of | a/x | for | x/a |, where | x | denotes the absolute value of x.—Center of inversion. See geometrical inversion, under inversion.—Diurnal inversion of the wind. See *xim.d2.—Inversion of temperature. See *xim.perature.—Origin of inversion, center of inversion.—Radius of inversion, the side of the square equivalent to the rectangle of the sects from the center of inversion to two inverse points.—Rule of inversion, the rule that if the hypotheses of a group of demonstrated theorems exhaustively divide the universe of discourse into contradictories, so that one must be true, though we do not know which, and the conclusions are also contradictories, then the inverse of every theorem of the group will necessarily be true.—Thermo-electric inversion, the change of direction of the electronotive force of a thermo-couple when the mean temperature of the junctions passes the neutral point of the two metals of which the thermo-couple is made.

inversor (in-ver'sor), n. [inverse + -orl.] That

inversor (in-ver'sor), n. [inverse + -or¹.] That which transforms into the inverse.—Peauceller's inversor, Peauceller's cell.
invert, v. t. 3. In chem., to convert (canesugar) into a mixture of glucose and fructose.

The operation abstractly explained to a brightness.

The operation, chemically considered, is a hydrolysis, that is, addition of water. The process is accompanied by a reversal of the direction of deflection of a ray of polarized light by the sugar solution: hence the term.

4. In music: (a) Of an interval, to transpose the lower tone an octave higher, so that it falls (usually) above the higher tone. (b) Of a melody or theme, to take its intervals in order downward instead of upward, thus making a new melody, but one whose relation to the first is exact and intelligible. (c) Of a chord, to arrange its tones in any order in which the root is not in the bass.

Invert. An abbreviation (a) of Invertebrata; (b) [l. c.] of invertebrate.

invertase (in-ver'tas), n. [invert + -ase.] A ferment which inverts higher sugars to lower forms; specifically, a ferment which inverts cane-sugar to dextrose and levulose. Invertase occurs in many yeasts and other fungi, in pollen-grains, in the beet-root, in many of the higher plants, and in some of the animal digestive juices. Also invertin. The specific ferment is also termed sucrase.

Invertebrate determinant. Same as zeroaxial determinant (which see, under determinant).

The specific ferment is also to the sum of the sum of the size of the same circular pitch will work together. They are much used in cases where the distance between the centers of the two shafts has to be alightly variable.

Invertebrate determinant. Same as zeroaxial determinant (which see, under determinant).

The specific ferment which is pollen-grains, in the base-circle is the circle at the

invertive (in-ver'tiv), a. [invert + -ive.] Capable of producing inversion.

invertor, n. 2. That which turns in: said of certain muscles.

For if either the evertor or invertor is out of use the combined action of these muscles (as contrasted with their single action) becomes impossible.

Lancet, July 4, 1903, p. 56.

investigation, n.— Unit of investigation, the simplest form of the subject-matter of a science: a term employed chiefly in sociological discussion.

investigational (in-ves-ti-gā'shon-al), a. [investigation + -all.] Pertaining to or of the nature of investigation.

Investigational apparatus of great importance.
Science, Sept. 29, 1905, p. 387.

652 tion; given to investigation.

invinate (in-vi'nāt), v. t.; pret. and pp. invinated, ppr. invinating. [ML. invinare, embody in wine, < L. in, in, + vinum, wine.] To embody in wine: used in reference to the doctrine of transubstantiation. See *invination.

invination (in-vi-nā'shon), n. [NL. *invina-tio(n-), < ML. invinare: see *invinate.] In the eucharistic controversy, the doctrine that after consecration the blood of Christ is locally present or infused in the wine, which remains

II. n. 1. One who is invincible. Specifically—2. A member of an Irish society, organized in 1881, whose avowed object was "to remove all tyrants from the country."

inviscation (in-vis-kā'shon), n. [NL. *inviscatio(n-), < L. inviscare, catch with bird-lime, < in- + viscum, bird-lime.] The act of smearing or mixing with glutinous matter; specifically, the act of mixing the food with the mucous secretion of the mouth.

invital (in-vi'tal), a. [in-3 + vital.] Having no vitality; lacking life or lifelike appearance. in vitro (in vi'trō). [L.] Within glass, that is, a test-tube: said of chemical reactions, bacterial cultures, etc., obtained experimentally in the test-tube as contrasted with those occurring in vivo, that is, within the living

Serum obtained by immunising with one race did not necessarily give more than a trace of reaction in vitro and none whatever in vivo when tested with another race. H. E. Durham, in Jour. Exper. Med., Jan. 15, 1901, p. 355.

invocant (in'vo-kant), n. [L. invocans (-ant-), ppr. of invocare, invoke.] One who calls upon or invokes.

invocative (in-vok'a-tiv), a. [invocate + -ive.] Invocatory; invoking.

involucrum, n. 3. In pathol., a wall of new osseous tissue inclosing the sequestrum in a case of necrosis.

involute, a. 3. Noting a form of tooth-profile, used in gearing, traced by a point at the end of a tangent as it is unwrapped from a base-

The invasion of the non-hairy skin by the trichophyton fungus, all varieties of which cause at the beginning of infection a circular scaly pink patch that spreads peripherally with a pinkish border, and clears up or involutes in the central portion, leaving a faintly yellowish tinge in its wake, thus forming a ring.

Buck, Med. Handbook, VII. 782.

invest, v. t.—Investing cartilage. Same as articular mal state: noting specifically the uterus after

involuted, a. 2. Having returned to the normal state: noting specifically the uterus after pregnancy.—3. Having undergone the retrograde processes peculiar to old age.

involution, n. 7. (b) The atrophic or regressive changes occurring in old age.—8. In biol., in the possession by an organism which is adapted to conditions that are simpler than those under which its allies live, of an organization that which its allies live, of an organization that the sensitive film to be exposed to the action of light. It occurs sparingly in nature as the rare nineral identities. Silver todide, one of the majoration of the sensitive film to be exposed to the action of light. It occurs sparingly in nature as the rare nineral identities. Silver todide, one of the majoration of the sensitive film to be exposed to the action of light. It occurs sparingly in nature as the rare nineral identities. Supplier todide, the compound S_2I_2 : used externally in medicine to a limited extent.

iodiferous, a. 2. Containing iodine as a constituent.

iodinated (i'ō-din-ā'/ted), a. [iodine + -atel + -ed².] Charged with iodine, either in admixture or chemical combination.

evidence of inverse or retrograde evolution.

involution-spore (in-vo-lu'shon-spor), n. Same as resting-spore

involutoric (in'vo-lu-tor'ik), a. Same as in-

involutoric (in'vo-lu-tor'ik), a. Same as involutorial.— Involutoric transformation, that given by (x-a)/(x-b) = -(y-a)/(y-b).

involv, v. t. A simplified spelling of involve. inwrought (in-rât'), p. a. Wrought or worked in or into; having something (specifically, figures or patterns) worked into it.

inyala, nyala (in-yā'lā, nyā'lā), n. [S. African native name.] A South African antelope, Transland and ansative name.]

gelaphus angassi, related to the bushbuck or geaphus angassi, related to the bushbuck or harnessed antelope. The males are little over three feet high at the shoulder, of a bluish gray, with faint white markings.

Io. An abbreviation of Iowa.

Ioa (i-ō'ä), n. [NL., ζ Gr. iός, an arrow.] A genus of fishes known as darters, inhabiting the fresh waters of the southeastern United

iodacetanilide (i'ōd-a-set-an'i-lid), n. [iodice + acetanilide.] A crystalline compound, $C_6H_4.I.NH.C_2H_3O$, prepared by the action of iodine on acetanilide. Also iodantifebrin.

+ antifebrin.] Same as *iodacetanilide.
iodantipyrin (i*ō-dan-ti-pi'rin), n. [iod(ine) + antipyrin.] A colorless crystalline compound, C₁₁H₁₁.I.N₂O, obtained by the action of iodine chlorid on antipyrin. Also iodapyrin.
iodated (i'ō-dā-ted), p. a. [iod(ine) + -ate¹ + -cd².] In chem., charged with iodine as a constituent stituent.

iodation (i-ō-dā'shon), n. [iodate2 + -ion.] In chem., the process of causing iodine to be taken up as a constituent, as in the production of iodo-benzene from benzene.

iodhydrargyrate (i'ōd-hī-drār'ji-rāt), n. In chem., a double salt containing mercuric iodide as one component.

in vivo (in vi'vō). [L.] Within the living iodhydrate (ī-ōd-hī'drāt), n. [iodhydr-ic + body. See *in vitro.

invocable (in'vō-ka-bl), a. [NL. *invocabilis, odic acid. Same as hydriodate or iodide.

\(\lambda \) invocare, invoke.] That may be invoked or called on supplicatingly.

| As one component.
| iodhydrate (ī-ōd-hī'drāt), n. [iodhydr-ic + atel.] In chem., a salt of iodhydric or hydriodic acid. Same as hydriodate or iodide.

| iodhydric (ī-ōd-hī'drīk), a. [iod(ine) + hydriodrogen) + -ic.] Same as hydriodic acid.

iodhydric (1-ōd-hi'drik), a. [iod(ine) + hydrogen) + ic.] Same as hydriodic acid.
iodide, n.—Alkaline lodide, a compound obtained by the action of iodine on alkali-metal, as potassium or sodium iodide.—Green iodide of mercury, mercurous iodide, Hg21s.—Lead iodide, a solid of bright yellow color, little soluble in cold water, more freely in boiling water. Its production by precipitation serves as a test for lead or for iodine.—Mercuric iodide, a substance obtainable in two conditions which are dimorphous in crystal-lization, the one red, the other yellow in color. The brilliant scarlet of the former of these makes its production a valuable test for mercury and iodine respectively. The solution of mercuric iodide in an aqueous solution of petassium iodide, with the addition of a caustic alkali, forms the Nessler solution used to detect and determine minute quantities of ammonia, as in the examination of drinking water.—Nitrogen 10dide, a heavy black powder produced by the interaction of iodine and aqueous ammonia. It explodes violently by friction or slight heating, being resolved into nitrogen gas and vapor of iodine. It readily undergoes change, with replacement of iodine by hydrogen atoms, and the derivatives so formed are sometimes referred to rather loosely as iodides of nitrogen of iodamides.—Palladious iodide, a substance obtained as a very dark-brown precipitate on addition of a soluble iodide to the solution of a palladious salt. Its production in of phosphine or phosphorus in place of nitrogen.—Potassium iodide, a colorless solid, readily soluble in water and easily crystallized in cubes: manufactured, on a large scale, for use in medicine and photography.—Silver iodide, one of the haloid salts of silver extensively in use by photographers, forming an important part of the sensitive film to be exposed to the action of light. It occurs sparingly in nature as the rare mineral ledyrite.—Sulphur iodide, the compound S₂I₂: used externally in medicine to a limited extent.

i odiferous, a. 2. Containing io

iodine, n.—Churchill's iodine caustle. See Churchhill's **mincture of iodine.—Iodine absorption, the taking up of iodine, usually into chemical combination, as by fats and oils, in which the quantity of iodine taken up by a given quantity of the oil is used as a means of identifying the latter. See Hübl **process.—Iodine candle. See **candle.—Iodine number, the number expressive of the quantity of iodine absorbed by a given amount of a particular fat or oil. See **iodine absorbed mand Hübl **process.—Iodine pentoxid, a compound of two atoms of iodine and five of oxygen (1205). Also known as iodic anhydrid. It is decomposed by heat into iodine and oxygen.—Iodine trichiorid, a compound of one atom of iodine with three of chlorin. It forms lemon-yellow crystals, easily decomposed by heat into iodine and oxygen.—Iodine water, asolution of iodine in water. When saturated at common temperature it only contains one part of iodine for about 5,500 parts of water, but has a decided brown color.

iodinize (i'ō-din-iz), v. t.; pret. and pp. iodinized, ppr. iodinizing. [iodine + -ize.] Same

iodinize (i'ō-din-iz), v. t.; pret. and pp. iodinized, ppr. iodinizing. [iodine + -ize.] Same as iodate or iodize.

as iodate or iodize.
iodinophilous (ī'ō-di-nof'i-lus), a. [iodine + Gr. φιλεῖν, love.] Readily staining with iodine.
—Iodinophilous vacuole, in sporozoans, as the Myzobolidæ, a vacuole in the sporoplasm containing a substance which stains reddish brown with iodine and gives some of the reactions of glycogen.
iodiodide (i-ōd-ī'ō-did), n. In chem., same as

*iodo-iodide.

iodipin (i-ō'(di-pin), n. A yellow, oleaginous addition-product of iodine and sesame-oil, containing either 10 or 25 per cent. of iodine: used in syphilis, scrofula, etc.

odo. An element in chemical terms, used in forming names of addition- and substitutioniodocompounds of iodine which are made by adding iodine solution to other bodies as alkaloids, as iodocinchonine, iodomorphine, iodostrychnine,

iodochlorid (i'ō-dō-klō'rid), n. In chem., a compound in which iodine and chlorin are both combined with the same metal or basic radical: as, mercuric iodochlorid (HgICl).

iodo-eugenol (i'ō-dō-ū'jē-nol), n. Same as

enol-iodide.

iodoform, n. This substance, much used in surgery, is now prepared electrolytically from a mixed solution of alcohol with an alkaline carbonate and iodide.

iodoformism (i'ō-dō-fôrm-izm), n. [iodoform i + -ism.] A condition induced by the poisonous action of iodoform.

iodogallicin (i'ō-dō-gal'i-sin), n. [iod(ine) + gallicin.] A light, amorphous, gray powder, prepared by the action of bismuth oxyiodide

on gallicin. It is an antiseptic.

iodoglycerin (i'ō-dō-glis'e-rin), n. [iod(ine) + glycerin.] A solution of iodine and potassium iodide in glycerol.

proteids thyreoglobulin forms the colloid substance of the gland. Also thyro-iodine. + iodous (i'ō-dus), a. [iod(ine) + -ous.] In chem., related to, containing, or resembling

iodohematin (i'ō-dō-hem'a-tin), n. [iod(ine) + hematin.] A substance analogous to hemin, + hematin.] A substance analogous to hemin, in which hydriodic acid is combined with hem-

pounds containing less oxygen than iodic oxid or acid, but no such substances are known. iodohemol, iodohemol (i'-ō-dō-hem'ol), n. [iod(ine) + hemol.] An iodine compound of hemol containing 16 per cent. of iodine: used in syphilis, scrofula, etc.

iodohydrargyrate (i'-ō-dō-hī-drār'ji-rāt), n. [iod(ine) + hydrargyrate.] In chem., a double iodide of mercury and a more electropositive metal: as, (KI)₂.HgI₂, potassium iodohydrargyrate.

iodorum (i-ō-doum), n. [NL: see iodine.] The pharmacopeial name for iodine.

rate.

iodo-iodide (ī'ō-dō-ī'ō-did), n. [iod(ine) + io-dide.] In chem., a compound of iodine with a basic radical of which iodine is a constituent.

iodo-iodide (ī'ō-dō-ī'ō-did), n. [iod(ine) + io-dide.] In chem., same as iodiae: a ioim nounce eral use.

chem., same as iodiae: a ioim nounce eral use.

I. O. F. An abbreviation of Independent Order of Foresters. iodomercurate (i'ō-dō-mèr'kū-rāt), n. [io-d(ine) + mercurate.] Same as *iodohydrargy- I

-μετρια, < μέτρου, measure.] In chem., properly, I. O. G. T. An abbreviation of Independent the quantitative determination of iodine, usu-Order of Good Templars. ally by means of a standard solution of a thio-ion, n. 2. In phys. chem., one of the particles, sulphate or an arsenite, iodine acting in the presence of water as an indirect oxidizing agent. The term is often applied to the same process used in inverse form to determine, by means of a standard solution of iodine, some one of a number of substances capable of undergoing definite oxidation or deoxidation. Starch and the Dextrins in Relation to Iodometry.

Science, Sept. 5, 1902, p. 365.

iodonium (ī-ō-dō'ni-um). n. [iod(ine) + -one + -ium.] The hypothetical, univalent, basic radical, IH₂. It is analogous to the radical

+ -ium.] The hypothetical, univalent, basic radical, IH₂. It is analogous to the radical ammonium, NH₄.

iodophen (1'ō-dō-fen), n. [iod(ine) + phen(yl).]

Same as *nosophen.

iodophenin (1'ō-dō-fē'nin), n. [iod(ine) + phen(ol) + -in².] A brownish powder or crystalline compound, C₂₀H₂₅I₃N₂O₄, obtained by precipitating an acidulated aqueous solution

solution or found in water (Lugor's solution), by adding potassium iodide.

iodopyrin (i*o-dō-pi'rin), n. [iod(ine) + (anti-pyrin.] A trade-name for iodo-antipyrin, a substance used medicinally as an antipyretic

and resolvent.

iodoso (î-ō-dō'sō), n. [iod(ine) + -ose + -o.]
The univalent radical, IO.—Iodoso bensene, an amorphous, explosive, basic compound, C₀H₀IO, prepared by the action of alkali on phenylchloriodonium chlorid, C₀H₀IC₂.

iodospermin (i'ō-dō-sper'min), n. [iod(ine) + Gr. σπέρμα, seed, + -in².] A substance formed on treating seminal fluid with a modified Lugol's solution (an iodine preparation). The reaction is supposedly due to the presence of choline

iodosulphate (i'ō-dō-sul'fāt), n. [iod(ine) + sulphate.] An iodine compound or addition-product of a sulphate: as, iodosulphate of

product of a suppase: as, wowsuppass of quinine, or herapathite.

iodosulphid (1'ō-dō-sul'fid), n. [iod(ine) + sulphid.] In chem., a compound in which iodine and sulphur are both united to the same metal or basic radical. Also called sulphiodide.

iodotherapy (i'ō-dō-ther'a-pi), n. [iod(ine) + Gr. bepareia, medical treatment.] The therapeutic use of iodine or the iodides.
iodothyrin (i'ō-dō-thi'rin), n. [iod(ine) + thyr(oid) + in².] A complex substance containing iodine, obtained from the thyroid gland, in which it or interpretation with a claim in which it exists in combination with a globulin as thyreoglobulin. Together with another albuminous substance belonging to the nucleo-

iodine. Iodous oxid and iodous acid are terms which by analogy would be given to compounds containing less oxygen than iodic oxid

ioduret (ī-od'ū-ret), n. [iod(ine) + -uret.] In chem., same as iodide: a form not now in gen-

of M. An abbreviation (a) of Instructor of

bearing electric charges, which carry electric currents through the air or other gas. See *electron, 2.

**electron*, 2.

Preston . . . and Runge and Paschen . . . think it possible that atoms of related elements are composed of the same kind of ions, and that the properties of these elements are determined by the arrangement of the ions in the atom.

Encyc. Brit., XXXII. 781.

**Electronegative ion, electropositive ion. In phys. chem., the ion, consisting of an atom or of a group of atoms called a radical, which is produced by the electrolytic dissociation of an electrolyte and which moves toward the positive pole or anode is the electronegative ion or the anion. That which moves toward the negative pole or cathode is called the electropositive ion or cation.— Migration of ions, in phys. chem., the movement of electrically charged ions toward the anode and toward the cathode in electrolysis, which is the means by which an electric current is carried through an electrolyte. The frictional resistance to the motion of bodies as small as ions is enormous, and the velocities produced are small. A fall

of potential of one volt per centimeter causes the ions of hydrogen at 18°C. to move at the rate of less than 12 centimeters an hour, and all other ions move less rapidly. See Hittorf's *phenomenon.

-ion². In phys. chem., the word ion added, as a suffix, to the abbreviated name of an atom or radical to form a name for the atom or radical in the ionic state: thus chlorion means an atom of chlorin in the ionic condition; cupro-ion or cupriion, the ion of univalent and of

bivalent copper.

Ion. An abbreviation of Ionic.
ionic² (ī-on'ik), a. [ion + -ic.] In phys. chem.,
of or pertaining to an ion or the ions which carry an electric current in electrolysis: see Arrhenius's theory of electrolytic or ionic *dissociation.

The frictional resistance of the liquid to the passage of the ions, the reciprocal of which is called the *ionic* fluidity.

J. A. Fleming, in Encyc. Brit., XXVIII. 14. Ionic concentration. See *concentration.—Ionic velocity. See migration of *ions.

Ionicism (i-on'i-sizm), n. [Ionic + -ism.] Same as Ionism

ionium (i-ō'ni-um), n. [NL. See *ion, n., 2.]
A supposed disintegration-product of actinium from the disintegration of which radium, in turn, results. See the extract.

turn, results. See the extract.

It has been found that uranium minerals contain a new radio-active element, to which the name "ionium" has been given. The chemical behavior of ionium is similar to that of thorium, from which it can not be separated by the usual reactions characteristic for thorium. Ionium emits an a radiation having a range of about 2-8m in air, and probably also a β radiation. Results obtained on the growth of radium in solutions of ionium indicate that it is the immediate substance from which radium is formed. It is therefore undoubtedly a disintegration product of uranium intermediate between uranium X and radium. The relative activity of radium and ionium in minerals is in agreement with this assumption.

B. B. Boltwood, in Amer. Jour. Science, May, 1908, p. 381.

ionizable (i'ō-ni-za-bl), a. [ionize + -able.] Capable of being ionized: used both of electrolytes and of gases.

ionization (i'ō-ni-zā'shon), n. [ionize + -ation.] In phys. chem.: (a) The electrolytic dissociation of an electrolyte by solution or by fusion.

(b) The process by which a gas is converted into a conductor of electricity; the state or condition of being ionized. See *electron, 2, *electron theory.

The very large ionization of mercury vapour is interesting as this is a nonetered into as the interest of ionization.

The very large ionization of mercury vapour is interesting, as this is a monatomic gas; the process of ionization must, therefore, involve much finer subdivision than the splitting of a molecule into atoms.

J. J. Thomson, in Encyc. Brit., XXVIII. 89.

Ionization coefficient. See *coefficient.

ionize² (i'ō-nīz), v. t.; pret. and pp. ionized, ppr. ionizing. [ion + -ize.] In phys. chem.: (a) To separate into ions: said of the solvent in which an electrolyte is dissolved.

which an electrolyte is dissolved.

Sulphuric acid, which in the fairly strong solutions used by Thomson is only about half dissociated, gives a higher value for the heat of neutralization, so that heat must be evolved when it is ionized. . . The problem of the cause of solubility still remains unsettled, but towards the explanation of ionizing power some advance has been made.

Encyc. Brit., XXVIII. 15.

(b) To produce ions in (air or other gas): said of Röntgen rays, of cathode and various other rays, of the electric field, of a glowing metal, and of violet light.

and of violet light.

This equation has been verified in the case of a gas ionized by the Röntgen rays by Rutherford.

Encyc. Brit., XXVIII. 26.

ionizer (i'ō-nī-zer), n. Any device for producing the ionization of a gas or liquid.
ionograph (ī-on'ō-grāf), n. [ion + Gr. γράφειν, write.] An apparatus for recording automatically the state of ionization of the air or of any gas. It consists of an air-condenser, one plate of which is grounded through a high resistance while the other is connected to an electrometer. Sci. Amer. Sun.. Dec. 24. 1904. electrometer. Sci. Amer. Sup., Dec. 24, 1904, p. 24, 230.

ionone (î'ō-nōn), n. [Gr. lov, violet, + -one.] onone (1 0-1001), n. [Gr. 100, violet, 7 -008.] In chem., a hydro-aromatic ketone, made artificially from the citral of lemon-grass and other oils, possessing in a marked degree the odor of violet flowers, and hence used with

advantage in modern perfumery.

ionoplasty (1'ō-nō-plas-ti), n. [ion + Gr.
πλαστός, formed, +-y³.] The deposition of metals by means of the cathodic discharge.

Jour. of Phys. Chem., Nov., 1904, p. 583.

I. O. O. F. An abbreviation of Independent Order of Odd Fellows.
-lor¹. [Also -iour; < I... -ior, in comparatives, as

inferior, superior, ulterior, junior, senior, etc. See -or4 and -er3.] A suffix of Latin origin occurring in adjectives and nouns from original

Latin adjectives in the comparative degree, as inferior, superior, interior, exterior, junior,

senior, etc.
-ior². [Also -iour; < ME. -iour, -eour, -eyour, etc., < OF. -eior, -eiur, later -ieur, etc.] A suffix, the same as -or², with a preceding vowel, representing a type derived from Latin -āt-or. Examples are savior, warrior, etc., and currior, curriour, etc., now currier, etc. In some words the termination -ior, -iour has been

same as coca!

I. P. D. An abbreviation of the Latin in præsentia Dominorum, 'in the presence of the Lords' [of session].

LOCAS [OI SESSION].

19CCAC, n.—Bastard ipecac, the St. Andrews cross, Ascyrum hypericoides.—False ipecac. Same as American ipecac, under ipecac.—Milk-ipecac, the flowering spurge, Euphorbia corollata.—Spurge-ipecac, white ipecac, the American ipecacuanha. Euphorbia Ipecacuanhae.—Wild ipecac. (a) See wild!. (b) The spreading dogbane, Apocynum androsæmifolium.—Wood-ipecac, Triosteum perfoliatum.

ing dogbane, Apocynum unit reason, Triosteum perfoliatum.

ipecacuanha-wine (ip-ē-kak-ū-an'š-wīn'), n. iridin (ī'1i-din), n. [irid-ic + -in-.]

1. A medicated wine made by macerating less glucoside, C₂₄H₂₆O₁₃, found in orris root. ipecac in wine.—2. A medicinal wine made by adding 10 parts of fluid extract of ipecac it crystallizes in colorless needles.

It crystallizes in colorless needles.

Iridio (ī-rid'i-ō), n. [NL., ⟨ Gr. lρις (lριδ-), the parts of white wine: an emetic and expectation wine and expectation of white wine: an emetic and expectation with the tropical seas of America.

In the structure of 100 parts of alcohol and 800 parts of white wine: an emetic and expectation with the tropical seas of America.

In the structure of 100 parts of alcohol and 800 parts of white wine: an emetic and expectation with the tropical seas of America.

In the structure of 100 parts of alcohol and 800 parts of white wine: an emetic and expectation with the structure of 100 parts of alcohol and 800 parts of white wine: an emetic and expectation with the structure of 100 parts of alcohol and 800 parts of white wine: an emetic and expectation with the structure of 100 parts of fluid extract of ipecac in colorless needles.

In the structure of 100 parts of fluid extract of ipecac in colorless needles.

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In the structure of 100 parts of fluid extract of ipecac in colorless (ir'i-dop-to'sis), n. [NL., ⟨ Gr. lρις (lριδ-), the log (lριδ-), iris, + πτώσις, falling.] Prolapse of the iris.

In the structure of 100 parts of fluid extract of ipecac in colorless (lριδ-), iris, + πτώσις, falling.] Prolapse of the iris.

In the structur

ipecacuanhic (ip-ē-kak-ū-an'ik), a. [ipecacuanha + -ic.] Of or relating to ipecacuanha.—
Ipecacuanhic acid, a glucoside, related to tannic acid, found in the dried root of Evea Ipecacuanha.

Ipnopidæ (ip-nop'i-dē), n. pl. [NL., < Ipnops + -idæ.] A family of deep-sea fishes widely -idæ.] A distributed.

Ipnops (ip'nops), n. [NL., \langle Gr. ἰπνός, a lantern, + ώψ, eye.] A genus of deep-sea fishes of the family Ipnopidæ.

Inn (i'pō), n. [NL. (Persoon, 1807), ⟨Macassar ipo, the upas-tree, Ipo toxicaria.] 1. A genus of dicotyledonous plants belonging to the family Moraceæ. See Antiaris.—2. [l. c.] An arrow poison prepared from upas-sap, Ipo toxicaria, by the Kenyahs in Borneo, who also use it internally as a medicine for malaria.

ipomeic (ip-ō-mē'ik), a. [Ipomæa + -ic.] Pertaining to or derived from plants of the genus Ipomæa.—Ipomeic acid. Same as ★ipomic or sebacic

ipomein (ip-ō-mē'in), n. [Ipomæa + -in².] A colorless amorphous glucoside, C₇₈H₁₃₂O₃₆, found in the root of Ipomæa pandurata. It is nearly related to convolvulin and jalapin. Also ipomæin.

ipomic (i-pō'mik), a. [$Ipom(\alpha a) + -ic$.] Same

as ipomeic.—Ipomie acid. Same as sebacic acid.
ippi-appa (ip-ē-ä'pä), n. [Jipijapa, a town in
Ecuador where fine Panama straw hats are made.] In Jamaica, a name applied to Carludovica Jamaicensis, from the leaves of which indovica Jamaicensis, from the leaves of which hats are braided. For making the hats only the finest straw is selected, the coarser being utilized for brooms and hand-baskets. The older leaves form an excellent and durable thatch for houses. Also called broom-thatch, iridium: applied to comp iridium: applied to comp iridium: applied to comp iridium is trivalent, as insectively. The quality of being oneself, + iridite (i'ri-dīt), n. [irid-it-ity.] The quality of being oneself or itself; the essential element of identity.

ipsographic (ip-sō-graf'ik), a. [L. ipse, oneself, + Gr. γράφειν, write, + -ic.] Self-registering; self-recording.

Ir. 3. An abbreviation of Ireland. iracundity (ī-rā-kun'di-ti), n. [L. iracunditas, 'iracundus, angry: see iracund.] Anger; iraseibility.

Iran. An abbreviation (a) of Iranian; (b) of Iranic.

irascent (ī-ras'ent), a. [L. irascens (-ent-), ppr. of irasci, be angry: see irascible.] Growing angry; tending toward anger.

I. R. B. An abbreviation of Irish Republican

Brotherhood.

Ire. An abbreviation of Ireland.

irenarchical (ī-rē-nār'ki-kāl), a. [Gr. εἰρηναρ-χικός, < εἰρηνάρ γης, irenarch, + -all.] Relating

or pertaining to the ancient peace-omeer as irenarch, or to his functions.

irenarchy (i'rē-nār-ki), n. [irenarch + -y3.]

The office or position of irenarch (which see).

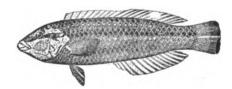
iretol (i're-tol), n. [ir(igenin) + -et + -ol.]

A colorless compound, CH₃OC₆H₂(OH)₃, obactories compound, CH₃OC₆H₂(OH)₃, obactories compound, characteristic and formic acids, and formic acids, the stance arranged like a plate in the skin of some fishes. Proc. Zool. Soc. London, 1898, p. 299. called 1, 2, 5-trihydroxy-2-methoxybenzene. iridal, a. 2. Relating to the iris of the eye.

acid, a colorless compound, (CH₃O)₂C₆H₃(OH)CH₂COOH, obtained, together with iretol, by the action of alkali on irigenin. It crystallizes in prisms and melts at 118° C. Also called 4, 5-dimethoxy-3-hydroxyphenylacetic acid.

iridico. A combining form of iridic, used in compound names of double salts in which iridium with apparently tetrad valence is present as a constituent: as, iridico-potassic chlorid, same as potassium chloriridate, K_2IrCl_6 .

iridiomotor (ir'i-dō-mō'tor), a. [Gr. lpu (ipid-), iridomotor , a. [Gr. lp



Iridio radiatus. (From Bulletin 47, U. S. Nat. Museum.)

A combining form of iridium, used in compound words, signifying the presence of iridium as a constituent: as, *iridio*-platinum, the alloy of 90 per cent. platinum with 10 per cent. iridium adopted as the material for the international standard meter and kilogram. Iridio- or irido- is used more specifically in the names of compounds in which iridium is present with apparently triad valence, as in iridiochlorid of potassium, same as potassium chloriridite (K_3IrCl_6) .

iridio-platinum (i-rid'i-ō-plat'i-num), n. The alloy of iridium with nine times its weight of alloy of iridium with nine times its weight of platinum. It is remarkably hard, elastic, and susceptible of high polish, and is attacked by very few chemical reagents. Besides its use for international standard weights and measures it has been employed to make telegraph-contact buttons, electrodes to be exposed to acid liquids, and wires to form part of high-temperature pyrometers. Also called platino-iridium.

iridious (ī-rid'i-us), a. In chem., containing iridium is trivalent, as IrCl₃. Compare *iridic².

iridite (i'ri-dit), n. [irid-ium + -ite².] In chem., a salt of iridious acid, the hydroxid Ir(OH)₃ or Ir₂(OH)₆.

Iridium blue. See *blue, n.

iridoceratitis (ir"i-dō-ser-a-tī tis), n. [NL., ζ Gr. ἰρις (ἰριδ-), iris, + κέρας (κερατ-), horn (cornea), + -itis.] Inflammation of the iris and cornea.

iridocyclochoroiditis (ir'i-dō-sī'klō-kō'roidī'tis), n. [NL., < Gr. lρις (ιοιδ-), iris, + κυκλος, circle, + Ε. choroid + -itis.] Inflammation of the iris, ciliary body, and choroid coat of the irok (ê'rōk), n. [Philippine name.] Same as eye.

iridocyst (ir'i-dō-sist), n. [Gr. lρις (lριδ-), iris, + κίστις, bag (cyst).] A cell which, in Sepia and other cephalopods, produces iridescent colors by the diffraction of light.

p. 259.
iridodialysis (ir'i-dō-dī-al'i-sis), n. [NL., < Gr. lρις (lρι'-), iris, + διάλνσις, separation.] A form of coretomy or iridectomy in which the iris is torn away from the ciliary ring.
iridokeratitis (ir"i-dō-ker"a-ti'tis), n. Same

Ir(OH). Also iridiate.

-iour², suffix. See *-ior².

-iour², suffix. See A colorless compound, HÔC₆H₂ (OĆH₃)₂CH₃, prepared by the dry distillation of iridic acid. It is deposited in large crystals, melts at 54° C., and boils at 239° C. Also called 4, 5-dimethoxy-3-hydroxytoluene.

iridolin (i-rid'ō-lin), n. [iridol + -in².] A colorless basic compound, $C_{10}H_{9}N$, contained in coal-tar oil. It boils at 252-257° C.

iridomotor (ir'i-dō-mō'tor), a. [Gr. iρις (iριδ-), iris, + L. motor, mover: see motor, a.] Relating to movements of the iris.

186° C.

iris, n. 10. The root of a species of iris cultivated in India and sold in the bazaars of Calcutta to be used, like the Florentine orrisroot, in perfumery and medicine.—11. The iridescence in fractured pieces of rock-crystal. When the fractures are cut out with the upper crystal itself and polished, they show a beautiful play of color. The name is also applied to rock-crystal and the cheaper stones to which color is applied by means of a coating on the back to produce the effect of a play of colors. A similar effect is produced by cementing various colored glasses together and then coating them.

Quartz crystals are occasionally met with which are

glasses together and then coating mem.

Quartz crystals are occasionally met with which are iridescent within, an effect due to fractures and cavities in the interior. Such crystals are cut and sold under the name of iris. The irised effect is frequently produced by artificial means, usually by heating and then suddenly cooling the specimen.

Snithsonian Rep. (Nat. Mus.), 1900, p. 526.

The Elementing See Iris 8.— Iris

Florentine iris, Iris Florentina. See Iris, 8.— Iris camphor, the solid portion of oil of orris, consisting principally of myristicin.— Iris of a lens system, the stop or aperture which limits the divergence of the beam of light entering the system; the aperture of which the entrance-pupil is the image.— Scorpion iris, Iris alate, a handsome blue-flowered species of the Mediterranean region.

iritomy (î-rit'ō-mi), n. Same as iridotomy. iridize² (ir'i-dīz), v. t.; pret. and pp. iridized, irksum, a. An amended spelling of irksum.

ppr. iridizing. [irid-ium + -ize.] To cover irofa (ā-rō-fā'), n. [Jap. i-ro-fa, otherwise with iridium; tip with iridium.

i-ro-ha (kanu): named from the first three iridoceratitis (ir"i-dō-ser-a-tī'tis), n. [NL., < syllables i, ro, ha, later fa.] The Japanese syllabary.

The nido is exactly analogous to the Japanese Katakana script, in which modified forms of Chinese ideographs are used phonetically to express 47 syllables (the so-called *I-ro-fa* syllabary), raised to 73 by the nigori and maru discritical marks.

Keane, Man, Past and Present, p. 308.

iroko (i-rō'kō), n. [Yoruba name in Lagos.] A valuable timber-tree of West Africa, Chlorophora excelsa, of the mulberry family. Its wood has a finely mottled grain and is

much used for building purposes on account of its resisting the attacks of termites.

much used for building purposes on account of its resisting the attacks of termites.

iron, n. 2. (e) In golf, a club with an iron head considerably lotted so as to raise the ball.—A-iron, a compact and extremely hard form of iron made electrolytically, using an electrolyte of ferrous chlorid, ferrous sulphate, or ferrous ammonium sulphate and an iron anode. It differs from B-*iron (which see) in that it is harder, more compact, and of a silver-white instead of a grayish color. The use of the terms A-iron and B-iron should be discouraged, since they are liable to be confused with the alpha and beta modification of iron.—Alpha-iron the allotropic modification of pure iron normal at all temperatures below Arg (760° C.). Alpha-iron is the most magnetic substance known. It crystallizes in the cubic system. On being heated above a temperature of 760° C, it changes into beta-*iron (which see), with absorption of heat.—Beta-iron, an allotropic modification of iron existing between the temperatures of 760° and 900° C. (Arg and Arg.) Beta-iron is almost without magnetism and crystallizes in the cubic system isomorphically with alpha-iron. On heating above 900° C. beta-iron changes into gamma-iron, with absorption of heat, undergoing also a critical change in electric conductivity.—B-iron, a form of iron produced electrolytically. It differs from A-*iron (which see) by the fact that higher voltage and higher current density are used, and that the electrolyte contains bivalent iron in some complex form, while the anode is made of platinum instead of iron.—Caribids of iron, iron chemically combined with carbon may be a subject to the carbon of manifer and combined *carbon.—Chilled iron, castiron which has been quickly cooled. The effect of this rapid cooling is to retain the whole, or the greater part, of the carbon (amounting to 3 or 4 per cent.) in solution in income case and the subject of the subject of the subject of the carbon of the wheel against the arbon of graphite. Thus railroad-car wheels are chilled on the tre puritying coal-gas, the manufacture of pigments, etc.—
Magnetic iron, magnetite.— Metallic iron, the metal
iron as distinguished from iron ores.— Meteoric iron.
See *meteoric.— Mitts iron, a very pure iron obtained
by melting the best Swedish malleable scrap in plumbago
crucibles. It is used for small castings, and about 1 per
cent. of aluminium, in the form of ferro-aluminium, is
added to insure sound casting.— Nitrate of iron, a sait
of iron, ferric nitrate; also, a workmen's name for impure
ferric sulphate made by oxidizing ferrous sulphate or
green vitriol with nitric acid, and much employed as a
dyers' mordant.— Parallel iron, a plane-iron of uniform thickness throughout its length: so called to distinguish it from those that are thicker at the lower end.

— Passive iron, iron rendered non-corrosive by being torm thickness throughout its length: so called to distinguish it from those that are thicker at the lower end.

—Passive iron, fron rendered non-corrosive by being heated or treated with acid.—Pisolitic iron ore, concretionary iron ore, usually limonite, in individual masses of about the size of a pea.—Pyrolignite of iron. See *pyrolignite.—Quevenne's iron. Same as reduced iron (which see, under reduce).—Russia iron, a form of sheet-iron which has a smooth, glossy surface and does not rust. It is made in Russia (although imitations are also made in other countries) by a secret process which consists essentially of hammering the sheets when laid in piles with powdered charcoal between the various sheets. Also called Russian iron.—Silvery iron, a fine-grained quality of cast-iron which has a light-gray color when fractured. The color is usually due to the presence of silicon as an alloy.—Strong iron, a name used by British foundrymen for a grade of cast-iron made by melting pigron and scrap-castings in the cupola. By increasing the proportion of scrap, the tensile strength is raised. The pig-iron used must be low in phosphorous, and the scrap must be taken from high-grade strong castings. Such iron, and iron (which see, under iron).—White iron. See whitel iron (which see, under iron).—White iron. See whitel iron work.—Tally iron, a corruption of Italian iron (which see, under iron).—White iron. See whitel iron weed. n. 1. Also any of the species of the genus.

ironbark (i'ern-bark), n. In Australia, certain trees having a solid, close bark, especially species of Eucalyptus. See ironbark-tree.—

Broad-leaved ironbark, Eucalyptus siderophloia, the heavy, light-colored wood of which is especially preferred for spokes, heavy beams, cross-ties, and uses where great strength is required.—Gray ironbark, Eucalyptus crebra. See ironbark-tree.—Leguminous ironbark, a Queensland tree of the bean family, Erythrophleum chlorotachys, the red wood of which is considered the hardest in Australia.—Lemon-scented ironbark, Eucalyptus Staigertana, the foliage of which yields a large quantity of volatile oil, having the odor of lenons or of the lemon verbena, Lippia citriodora.—Narrow-leaved ironbark. Same as gray *ironbark.

iron-blue (i'ern-blö), n. 1. A blue pigment made from the mineral vivianite.—2. In angling, a name applied to several artificial flies having a steel-blue color.

iron-clad, a. 3. Noting an electrical apparatus or machine in which the iron part of the structure completely or partly surrounds and thereby mechanically protects the electric conductors: as, an *iron-clad* armature, one having the conductors embedded in slots or

The two-pole ironclad type [of field-magnet], so called from the exciting coil being more or less encased by the iron yoke.

Encyc. Brit., XXVII. 584.

Iron-clad inductance, wire coil surrounded by laminated iron to give high self-induction.—Iron-clad motor, a motor in which the iron of the field surrounds and protects the armature field-coils, etc. See cuts of railway motors at *motor.

irone (ī-rōn'), n. [Iris + -one.] A colorless dextrorotatory oil,

CH.CH₂.CH.CH₃

CHC(CH₃)₂CHCH: CHCOCH₃, the odoriferous constituent of orris-root. It boils at 144° C. under 16 millimeters pressure. Also called 3, 3, 5-trimethylcyclohexane (1')-4'-

butenylone. iron-fall (i'ern-fal), n. The fall of a siderolite, or iron meteorite. N. E. D.

iron-free (i'ern-fre), a. 1. Free from or not containing iron.—2. In a metaphorical sense, free from the danger of iron weapons.

ironhead, n. 2. Same as *ironweed, 3.

iron-headed (i'ern-hed'ed), a. 1. Fitted with Irpex (er'peks), n. [NL. (Fries, 1825), < L. an iron head or tip, as a spade or a mail.—2. irpex, hirpex, a kind of harrow.] A genus of Determined; stubborn; resolute; hard-headed. hymenomycetous fungi of the family Hydnaironheart (i'ern-härt), n. Same as pohutu-[Australia.]

iron-holder (i'ern-hol'der), n. 1. A holder. made of cloth or other material, with which a made of cloth or other material, with which a hot flat-iron is handled.—2. An iron-stand.

iron-hole (i'érn-hōl), n. The hole through which the iron is run out of a blast-furnace, as distinguished from the *slag-hole.

lurgy. p. 250.

ironmongery, n. 2. Firearms. [Jocose.] All men have their delicate side, and it was Mr. Allion's to regard the open wearing of one's iron-mongery
bad form.

A. H. Lewis, Sunset Trail, x. as bad form.

iron-pan (i'ern-pan), n. A variety of hard-pan whose particles are cemented by oxid of iron. [Rare.

iron-red, n. 2. In chem., an oxid of iron, ferric oxid, or colcothar, used as a pigment.

iron-shears (i'ern-sherz), n. sing. and pl. A machine for cutting iron bars, plates, or irrational. I. a.—Irrational equation, number. rods; a power-shears.—2. Hand-shears for cutting thin sheet-metal or wire.

II. n. 2† A prime number.—3. In math.,

iron-shot (i'ern-shot), a. Inclosing grains or streaks of iron, as an iron ore.

ironweed, n. 1. Also, any of the species of the genus Vernonta, handsome composite plants of North America. See Vernonta.

2. The blue vervain, Verbend hastata.—3. The black knapweed, Centaurea nigra. Also called ironhead.—Devil's ironweed. See *devil'sironweed.

ironwood, n. 2. In Polynesia, Casuarina equi-setifolia, a littoral tree with jointed leafless branches and very hard and heavy wood: used by the natives for making spears. See horse-tail-tree and *agoho.—Ceylon ironwood, the Indian rose-chestnut, Mesua ferrea. See Mesua and nagkassar.—New Zealand ironwood. (a) Same as puriri. (b) A large tree of the myrtle family, Metrosideros lucida, yielding a very hard, strong, red wood, which is used for ship-building, spokes, hubs, and cross-ties for railways.—Queensland ironwood, any one of three trees of northern Australia, Acacia excelsa, a tall tree, the wood of which has the odor of violets; the ridge myrtle, Melaleuca genistifolia; and Myrtus gonoclada, a small tree with angled branches.—Santa Cruz ironwood, Lyonothamus forbindus, a rosaccous tree or shrub found on the islands of Santa Cruz, Santa Catalina, and San Clemente, off the coast of southern California. It sometimes attains by the natives for making spears. See horse-



Santa Cruz Ironwood (Lyonotham a, upper part of a flowering branch showing inflorescence and pinnate leaves; b, a simple leaf; c, a fruiting corymb.
 (From Sargent's "Manual of the Trees of North America.")

a height of 40 feet and a diameter of 10 inches a height of 40 feet and a diameter of 10 inches. It bears very peculiar odd-pinnate leaves, as well as simple ones, and cymose corymbs of white flowers.—Scrub ironwood, a ahrub or small tree of Queensland, Myrtus Hillii, yielding close-grained, hard wood of a light-gray color.—Seychellas ironwood, Northea Seychellana, a large tree of the family Sapotaces, which yields valuable timber for building purposes.—Small-leaved ironwood, Mouriri myrtilloides, a low tree or shrub of Janaica, Haiti, and Cuba, belonging to the family Melastomaces.

CEE. The sporephore is usually resupinate or pileate and attached at one side, and the teeth are more or less irregular and fattened. About 70 species have been described, occurring on fallen trees and branches.

irradiate, v. t. 4. To subject to the therapeutic action of the Röntgen or other rays.

The patient suffering from malignant disease is irradiated without first submitting to tentative exposures.

Med. Record, Jan. 31, 1903, p. 168.

ironing, n. 2. In metal., the adherence of irradiation, n. 3. In neurol., the diffusion of a imperfectly fused masses of iron to the twyers.

Phillips and Bauerman, Elements of Metalpath of conduction. Baldwin, Dict. of Philos. nervous impulse to parts outside the normal path of conduction. Baldwin, Dict. of Philos. and Psychol., I. 574.—4. In therap., subjection to the influence of X-rays or other form of radioactivity.

Still it seemed to be preferable to extirpate the tumorous portions, as far as it was possible, before resorting to irradiation.

Med. Record, Jan. 31, 1903, p. 169.

5. In anat., the disposition of fibrous or other structures in stellate form. Syd. Soc. Lex.—6. In chem., exposure to radiant light: as, some substances are said to phosphoresce by irradiation.

II. n. 2†. A prime number.—3. In math., an irrational number, that is, the mark of a cut which separates all rational numbers into two classes, the first having no greatest number, the second no least.—Transcendental irrational, a number which cannot be the root of an algebraic equation with integral coefficients. Such are s and s.

irrationalism (i-rash'on-al-izm), n. [irrational + -ism.] The principles of a system of thought opposed to rationalism; irrationality; the quality of not being guided by reason.

irrationalist (i-rash'on-al-ist), n. [irration + -ist.] One who believes in irrationalism. [irrational

irrationality, n. 3. In math., incommensurability.—Algebraic irrationality, irrationality such that the number having it can be a root of an algebraic equation with integral coefficients.

irrationalize (i-rash'on-al-iz), v. t.; pret. and pp. irrationalized, ppr. irrationalizing. [irrational + -ize.] To deprive of rational principles; make irrational.

irrecognizant (ir-ē-kog'ni-zant), a. [in-3 + recognizant.] Incapable of recognizing; not able to use the perceptive powers.

irredential (ir-ē-den'shal), a. Pertaining to or advocating irredentism.

Irregular opening, reflection. See *opening,

Irregulares (i-reg-ū-lā' rēz), n. pl. [NL., pl.

of irregularis, irregular.]
An order of the Blastoidea in which one ambulacrum and the corresponding radial are different in form and size from the rest. This order embraces only 3 genera, Eleutherocrinus, Pentephyllum, and Astrocrinus, all rare, from the Devonian and Carboniferous rocks. irrelative, a. 3. In biol.,



of or pertaining to the re- (From Zittel's tology.")

duplication or repetition of like parts or organs without mutual rela-

irrepressive (ir-ē-pres'iv), a. [in-3 + repressive.] Same as irrepressible. Mrs. Browning,

Aurora Leigh, iii.
irrespirate (i-res'pi-rāt), a. [in-3 + respirate.]
Not respired. Stud. Yale Psychol. Lab., X. 103. irrespondence (ir.ē-spon'dens), n. [in.8 + respondence.] The state of not responding (to something); lack of respondence or re-

irrestrictive (ir-ē-strik'tiv), a. [in-3 + restrictive.] Not restrictive or subject to restriction. isamic (i-sam'ik), a. [is(atin) + am(monia) irresultive (ir-ē-zul'tiv), a. [in-3 + result + -iv.] Useless; without result; done in vain. irreticent (i-ret'i-sent), a. [in-3 + reticent.]

Having no reticence.

In the common transfer of the earth so characterized.

isamic (i-sam'ik), a. [is(atin) + am(monia) + -iv.] Noting an acid, C₁₆H₁₃O₄N₃, prepared by the evaporation of ammonium isatate. It crystallizes in rhombohedral lamine of the color of sublimed mercuric lodide, or in ruby-red thick heragonal prisms and is readily converted into isamide.

irretractile (ir-ē-trak'til), a. [in-3 + retractile.]
Not capable of being retracted or of retracting, as a metal.

irrevertible (ir-ē-ver'ti-bl), a. [in-3 + reverti-ble.] Not reverting, as a lease; not alterable.

Irrigation, n.— Overhead irrigation, a method of applying water by pipes, flumes, or troughs supported above the surface of the ground.— Sewage irrigation, the use, in irrigation, of sewage or waste water from towns or institutions, the object being the innocuous disposal of the waste water and also its use as a fertilizer.

Irrigational (ir-i-gā'shon-al), a. [irrigation + isanomal (ī-sa-nom'al), n. [Gr. loog, equal, -all] Of or pertaining to irrigation; irrigative.

Firmigation + Firmigation + Dressure, or other meteorological element.

irrotationally (ir-ō-tā'shon-al-i), adv. Not in a rotational way.
irrumpent (i-rum'pent), a. [L. irrumpens (-ent-), ppr. of irrumpere, break in; see irruption.] Irruptive; bursting in. [Rare.] irrupt (i-rupt'), v. [L. irrumpere (pp. irruptus), break in: see irruption.] I. trans. To break or force through: generally used as a participal adjective: as, irrupted barriers.

II. intrans. To enter forcibly; rush in: as, the enemy irrupted into the town.
-is³. A northern, and especially Scottish, form of -ish¹, as in Scottis (contracted Scots) for Scottish, Inglis for Inglish (English), etc.
is. An abbreviation of island.
I. S. An abbreviation (a) of inside sentinel; (b) of Irish Society.

(b) of Irish Society.

isabel, n. 2. One of the pigmy pouters: so called because of its general color (isabel

isabelita (iz'a-be-lē'tä), n. Same as isabelite. isabella-moth (iz-a-bel'ä-môth), n. Same as isabella tiger-moth (which see, under tiger-moth). J. B. Smith, Econ. Entom., p. 266.

isabelle, n.— Manteau isabelle, the trade-name for the reddish layer formed by exposure to the atmosphere on the outside of Marsellles mottled soap. Its production is due to exidation of the iron which is present in small quantity.

of isatic acid.

isatid, n. Same as *isatyd.

isatimide (ī-sat'i-mid), n. [isat(in) + imide.]

A yellow compound, C₂₄H₁₇O₄N₅, formed, to-

isabelline, a. II. n. Same as isabel. Proc. Zool. Soc. London, 1902, II. 316.

isacoustic (i-sa-koś'tik), a. and n. [Gr. loog, isatinic (i-sa-tin'ik), a. [isatin + -ic.] equal, + ἀκουστικός, of hearing: see acoustic.] taining to isatin.

I. a. Of or pertaining to equality of sound: isatinsulphonic (i'sa-tin-sul-fon'ik), a. as, an isacoustic line or surface.

The iaccoustic lines (or lines of equal sound-audibility) re very elongated curves, distorted along the rectilinear and.

Nature, March 17, 1904, p. 478.

Isacoustic curve, a curve passing everywhere through points of equal sound-intensity; specifically, in the acoustics of buildings, a curve indicating the positions in a room in which the hearing is equally good.—Isacoustic surface, a surface passing everywhere through points of equal intensity of sound. Such surfaces are used, in architectural acoustics, in determining the proper arrangement of sittings in an auditorium.

Isacoustic (i'sa-tō-jen'ik), a. [isat(in) + -gen + -ic.] Noting an acid, a highly unstable compound, C_6H_4 CO C — CO_2H , formed by the intramolecular rearrangement of orthonitro-intramolecular rearrangement of orthonitro-intramolecular rearrangement of orthonitro-intensity is account of the contraction
II. n. A line or curve, upon a diagram of acoustic intensities, drawn everywhere through points of equal intensity of sound.

isactinic (i-sak-tin'ik), a. [Gr. loo, equal, + άκτίς (άκτιν-), ray, + -ic.] Having equal intensity of actinic action.—Isactinic line, a line connecting points of equal actinic intensity.

isadelphia (i-sa-del'fi-ā), n. [NL., < Gr. lσος, equal, + ἀσελφός, brother.] A condition in which well-formed twins, capable of independent existence, are united by bands of little or no vital importance.

Isaian (i-zā'yan), a. [Isaiah + -an.] Of or pertaining to the prophet Isaiah.

isametral (i-sa-met'ral), a. and n. [Gr. loos, equal, + μέτρον, measure, + -all.] I. a. Having the same abnormal climatic features during any specific season or year or average of years.

II. n. A line connecting stations on the earth so characterized.

issatate. It crystallizes in rhombohedral lamine of the color of sublimed mercuric iodide, or in ruby-red thick hexagonal prisms, and is readily converted into isamide.

isamide (i-sam'id), n. [isam-ic + -ide¹.] A yellow pulverulent compound, C₁₀H₁₄O₃N₄, formed, together with isatic acid, by the evaporation of ammonium isatate.

Irrg. E. An abbreviation of irrigation engineer. isangelical (i-san-jel'i-kal), a. [(irrigation, n.— overhead irrigation, a method of equal, + ἀγγελικός, < ἀγγελος, angel.] [Gr. looc, I Equal

We may venture to call this resurrection-body of the just also an "angelical" or "isangelical body."

Cudworth, Intell. Syst., III. 314. Ischiatic foramen. Same as ilio-ischiadic *for-

tive.

irrigationist (ir-i-gā'shon-ist), n. [irrigation + pressure, or other meteorological element.

-ist.] One who is interested, theoretically or practically, in irrigation; a student of irrigation; a student of irrigation; a student of irrigation.

Having equal anomalies or departures from realized Teanomalous line, a line passing

lating to irrigation or serving to irrigate.

lating to irrigation or serving to sand July.

lating to irrigation or sand July.

lating to irrigate.

lat

isapiol (i-sap'i-ol), n. [Gr. looc, equal, + E. apiol.] The methylene-dimethyl ether of 2, 3,4,5-tetrahydroxy-1-propen - 1'-ylbenzene, CH₂:O₂:C₆H(OH)₂CH:CHCH₃. It is formed by heating apiol with sodium ethylate, and crystallizes in prisms which melt at 44° C.

isat-. A combining form used in chemistry to designate compounds related to isatin and indigo.

isatan (ī'sa-tan), n. [isat(in) + -an.] A colorless compound, $C_{39}H_{28}O_{6}N_{4}$, prepared by the reduction of isatin, by means of sodium, in acid solution. It crystallizes in small cubes.

isatate ($\tilde{1}$ 'sa-tat), n. [isat-ic + -ate1.] A salt of isatic acid.

A yellow compound, $C_{24}H_{17}O_4N_5$, formed, together with imasitin, by the action of ammonia on isatin. It crystallizes in rhombic plates.

isatinic (ī-sa-tin'ik), a. [isatin + -ic.] Per-

taining to a sulphonic acid derived from isatin. —Isatinsulphonic acid, a vellow compound, CaH4OoNSOaH.2H2O, prepared by the oxidation of indigosulphonic acid. It forms silky, lustrous crystals.

phenol-propiolic acid under the influence of sulphuric acid.

isatoic (î-sa-tô'îk), a. [isat(in) + -o- + -ic.]
Noting an acid, a colorless compound,
CO
COO

NCOOH Or C₆H₄ < C₆H₄<

 $C_6H_4 < |$, or $C_6H_4 <$, prepared NCOOH by the oxidation of isatin, or by the action of ethyl chlorformate on anthranilic (orthoam inobenzoic) acid. It crystallizes in small needles and melts and evolves general districts. dles and melts and evolves carbon dioxid at 230° C. Also called anthranilcarboxylic acid.

isatropic (i-sa-trop'ik), a. [Gr. loog, equal, + E. atropic.] Noting three isomeric acids designated y, d, or e, according to the position of the substituting groups. They are colorless compounds, C₆H₅CH-CHCOOH

C₀H₅CH-CHC0OH, melting at 274°C., 206°C., and 228°C., HOCOCH-CHC₀H₅ respectively. They are formed by the prolonged heating of atropic acid, and are somewhat closely related to economic and occaine. Also called diphenyl-cyclobutane-dimensional control of the control of

methyl acias.

isatyd (1'sa-tid), n. The preferred form of isathyd.

I. S. C. An abbreviation of Indian Staff Corps.

Iscariotism (is-kar'i-ot-izm), n. [Iscariot + -ism.] An act characteristic of Judas Iscariot; treachery or meanness and over-economy, a in the application of charitable or church

ischiac (is'ki-ak), a. An erroneous form for ischiatic.— Ischiac border, the free margin of the ischium. In birds there is a lower ischiac border adjoining the pubis, a posterior border, and, in ostriches and their allies, a superior border.

ischialgic (is-ki-al'jik), a. [ischialgia + -ic.]
Relating to or affected with ischialgia or science.

ischiatica (is-ki-at'i-kä), n. [NL., a medial form between ischiadica and its altered phase sciatica: see sciatica.] Same as sciatica.

ischiodidymus (is'ki-ō-did'i-mus), n.; pl. ischiodidymi (-mi). [NL., ζGr. iσχίον, the hip-joint, + δίδυμος, twin.] A double monster in which union exists in the region of the hip.

ischiofemoral (is'ki-ō-fem'ō-ral), a. [Gr. $lo\chi lov$, hip-joint, + L. femur, thigh, + $-a^{l}$.] Pertaining to both the ischium and the thigh. ischiognathite (is-ki-og'na-thit), n. [Gr. iσχίσι, hip-joint, + γνάθος, jaw, + -ite².] In crustaceans, the third joint of a gnathite or footiaw.

schio-innominate (is'ki-ō-i-nom'i-nāt), a. In anat., relating to both the ischium and the ischio-innominate innominate bone .- Ischio-innominate index. See

ischiopagus (is-ki-op'a-gus), n.; pl. ischiopagi (-ji). [NL., < Gr. ισχίον, hip-joint, + πηγνύναι, fasten.] A double monster united by fusion of the ischia.

ischiopubis (is'ki-ō-pū'bis), n.; pl. ischiopubes (-bēz). [NL., < ischium + pubis.] A bony plate, in the pelvic arch in the extinct stegocephalian Amphibia, produced by the union of the ischium and the pubis.

ischiosis (is-ki-ō'sis), n. [NL., < ischium + -osis.] Same as sciatica.

Ischnochitonidæ (isk'nō-kī-ton'i-dē), n. pl. [NL. *Ischnochiton (< Gr. iσχνός, thin, lean, + NL. Chiton, a genus of mollusks), + -idæ.] A family of mesoplacophorous chitons having the surface of the intermediate valves divided by a diagonal with It occurs in the Tertiary by a diagonal rib. It occurs in the Tertiary rocks and present seas.

ischnophony (isk-nof'ō-ni), n. [Gr. ἰσχνόφωνος, thin-voiced (< ἰσχνός, thin, + φωνή, voice), + -y³.] Weakness or feebleness of voice.

ischochymia (is-kō-kī'mi-ä), n. [NL., irreg. ⟨ Gr. ἰσχειν, hold back, + χυμός, juice (see chyme¹).] Retention of food in the stomach in consequence of arrest of the process of diges-

ischogalactia (is kō-ga-lak'ti-ä), n. [NL., ζ Gr. laχειν, hold back, + γάλα (γαλακτ-), milk.] Suppression of the secretion of milk.

ischomenia (is-kō-mē'ni-ä), n. [NL., \langle Gr. $l\sigma\chi\epsilon\nu$, hold back, $+\mu\tilde{\eta}\nu\epsilon\varsigma$, menses.] Same as amenorrhea.

Ischyodus (is-kī'ō-dus), n. [NL., irreg. < Gr. iσχυευν, be strong, + δοδύς, a tooth.] A genus of extinct selachian fishes, belonging to the some extent, that is, it would agglutinate the red cells of another individual.

some extent, that is, it would agglutinate the red cells of another individual.

Alien. and Neurol., Aug., 1904, p. 886.

slates of Bavaria. They have the upper part of the face covered with a thick layer of dentin and the edge of the mouth sharp. Both lower and upper dental plates bear four rough tritors.

some extent, that is, it would agglutinate the red cells of another individual.

Alien. and Neurol., Aug., 1904, p. 886.

isoagglutination (i'sō-a-glö-ti-nā'shon), n. [Gr. loo, equal, + E. agglutination.] The agglutination of cells of an animal of one species

Ischyromyidæ (is'ki-rō-mī'i-dē), n. pl. A family of small, extinct, rodent mammals whose remains occur in the White River Oligocene. Alston, 1876.

iseidomal (ī-sī'dō mal), a. [Also isocidomal, iseidomal (1-si α mal), a. [Also isocidomal, isocidomal, isocidomal (the original formation being erroneous and thus subject to conjectural emendations); irreg. (Gr. iσος, equal, + είδομαι, I see, + -αl¹.] Affording an equally good view: applied to a curve or surface passing through the various points, in a theater or hall, from which the view of the stage is equally good.

isenergic, a. II. n. In thermodynam., a line which denotes graphically an operation such that the system operated upon neither gains nor loses energy.

isenite (i'sen-it), n. [NL. Isena, the Eis, a small tributary of the Rhine, Germany, +-ite².] In petrog., an olivin-bearing amphibole and biotite-andesite with basaltoid character. Bertels, 1874.

Isentropic curve. See *curve.

iserite (ī'zer-īt), n. [iser(in) + -ite2.] Same

as iseria.

isethionic (i-seth-i-on'ik), a. [Gr. loog, equal.

+ E. ethionic.] Pertaining to an isomeric variety of ethyl-sulphuric acid.—Isethionic acid, a colorless compound, HOCH₂CH₃Su₃H, isomeric with ethyl-sulphuric acid, prepared by the action of sulphur trioxid on ether or absolute alcohol. It is crystalline, evolves water at 200° C., and is also called 1-ethanol-2-sulphonic acid.

Ishmaelitic (ish'mā-e-lit'ik), a. [Ishmaelite + -ic.] Same as Ishmaelitish.

Isidæ (is'i-dē), n. pl. [NL., $\langle Isis + -idx. \rangle$] A family of gorgonacean alcyonarians having an axis consisting of alternating horny and calcareous portions. It includes several genera, among them Bathygorgia, Isis, and Mopsea.

isinglass, n.—Bengal isinglass, agar-agar (which see). See also isinglass, 1.

Isis, n. 2. The typical genus of the family Isidæ. Linnæus.

isl. An abbreviation of island.

Islamist (is'lam-ist), n. [Islam + -ist.] An adherent of Islam; an Islamite.

island¹, n. 4. In anat., any circumscribed island¹, n. 4. In anat., any circumscribed portion of tissue or aggregation of cells differing in structure from the surrounding parts.

Brasilian island, a height of land in the southern part of the state of Goyaz, Brazil, from which the drainage radiates into several of the great rivers of South America. Geog. Jour. (R. G. S.), IX. 64.—Continental island, an island adjoining a continent and strictly a part of the same elevated mass, although separated by shallow sea. Dana, Manual of Geol. (4th ed.), p. 22.—Islands of Langerhans, collections of cells in the interstitial tissue of the pancreas, thought to be independent ductiess glands furnishing an internal secretion.—Island of safety or refuge. See *sile of safety.

II. a. Isolated: separate.—Island case a

II. a. Isolated; separate.—Island case, a special, isolated case in which particular specimens for scientific collections are packed for transportation.—Island platform, in railroading, a platform between two tracks: used at way-stations for convenience in transferring passengers and for safety in preventing passengers from crossing the tracks. It is reached from the waiting-rooms by means of bridges over or subways under the tracks, and connecting stairways.—Island universe. See *universe.

See *tuniverse.

Isle or island of safety, a short platform, generally protected by posts, placed in the middle of a busy street as a convenience and a temporary stopping-place in crossing the street and as a place of safety in avoiding passing vehicles. Also called refuge.

islet, n. 3. An isolated piece of organic tissue; a cluster of cells; specifically, one of the islands of Langerhans.

I. S. M. An abbreviation of the Latin Iesus Salvator Mundi, Jesus Saviour of the World.

I. S. O. An abbreviation of Imperial Service Order.

iso. 2. In the names of chemical compounds, used to imply 'of equal or like formation' or 'isomeric,' distinguishing a compound from one isomeric with it. Of two such substances, that having the more complex structure or the one discovered later bears the prefix.

S.-42

ischuric (is-kū'rik), a. [ischuria + -ic.] 1. isoagglutinate (i'sō-a-glō'ti-nāt), v. t. and i.; Of or pertaining to ischuria.—2. Same as pret. and pp. isoagglutinated. ppr isoagglutinated. pret. and pp. isoagglutinated, ppr. isoagglutinating. [Gr. isos, equal, + E. agglutinate.] To produce isoagglutination in; undergo isoagglutination.

The serum from such blood was also isoagglutinating to some extent, that is, it would agglutinate the red cells of another individual.

Alien. and Neurol., Aug., 1904, p. 386.

by the corresponding agglutinins of another animal of the same species.

isoagglutinative (1'sō-a-glö'ti-nā-tiv), a. Causing isoagglutination. Science, Nov. 28, 1902, p. 858.

isoagglutinin (ī'sō-a-glö'ti-nin), n. equal, + E. agglutinin.] An agglutini directed against cells of animals of the same species, as the one furnishing the agglutinin.

isoamyl (ī-sō-am'il), n. [Gr. looc, equal, + E. amyl.] A univalent organic radical,

CH₃≻CH.CH₂CH₂.

Its derivatives, such as isoamyl alcohol, isoamyl iodide, etc., are prepared from certain portions of fusel-oil.

isoamylamin (î'sō-a-mil'a-min), n. [isoamyl + -in².] A poisonous ptomaine, C₅H₁₃N, probably derived from leucin: found in codliver oil.

isoamylate (ī-sō-am'i-lāt), n. [isoamyl + -ate1.]
The name of a metallic derivative of isoamyl alcohol.

isoanemonic (i'so-an-e-mon'ik), a. [Gr. loog, equal, + E. anemonic.] Noting an acid, a compound, $C_{10}H_{10}O_5$, formed, together with anemonin, by the spontaneous decomposition of anemone camphor from Anemone pulsatilla.

isoapiol (i-sō-ap'i-ol), n. [Gr. loos, equal, + E. apiol.] A colorless compound, C₆H(CH: CHCH₃)O₂:CH₂(OCH₃)₂, prepared by the action of alcoholic potassium hydroxid on apiol. It crystallizes in large leaves or quadratic plates, melts at 55-56° C., and boils at 303-304° C.

isobar, n. 2. In thermodynam., a line or curve determined by the equation of state (pv = RT) of a system when p has any constant value; a line of equal pressures. E. Buckingham, Theory of Thermodynamics, p. 23.

isobaric, a. 2. In math., having all terms of equal weight.—Isobaric algorism. See **algorism. II. n. In thermodynam., a line or surface of equal pressures; an isobar.

The isobarics of evaporation happen to be isothermals—not by reason of anything that can fairly be called physical accident, because it is the conjunction of corresponding critical pressures and temperatures that determines the evaporation always by controlling and steadying the pressure and never by controlling and steadying the temperature.

The Engineer, July 24, 1908, p. 83.

isobase (i'sō-bās), n. [Gr. looc, equal, + βάσις, base.] An imaginary line passing through all points which have undergone the same amount of deformation from their original position. R. D. Salisbury, in Geol. Surv. of New Jersey, 1893, p. 321.



Map of the Great Lakes, showing pairs of gaging-stations and isobases of outlets.

The isobases are marked by full lines; broken lines show the pairs of stations.

isobasial (î-sō-bā'si-al), a. [Gr. loo_{ζ} , equal, + $\beta \acute{a}ot_{\zeta}$, base, + $-al^{1}$.] In craniom., having a skull the basion and opisthion of which are on the same level in relation to the horizontal plane of the skull.

isobath (i'sō-bath), n. [Gr. loo_{ζ} , equal, + gions having the same color; a curve of equal difference of path; an isochromatic curve. that have the same depth below sea-level; an isochrone (ī'sō-krōn), n. [Gr. loo_{ζ} povo_{\zeta}, equal isobathymetric line.—2. An imaginary surint time, $\langle loo_{\zeta}$, equal, + $\chi povo_{\zeta}$, time.] 1.

face passing through all points in a body of water which have the same depth below the surface.

Surface.

Warm currents follow the trend of deepest isobaths, ice currents exist only in shallow seas, where no warm current can melt them.

Nature, Oct. 29, 1903, p. 632. isobathic (i-sō-bath'ik), a. [isobath + ic.]

Pertaining to an isobath; indicating equal depths below the surface of a body of water.

Towards the west this wall of limestone does not rise as high above the water, although the adjacent soundings are still so deep that the 100-metre isobathic line approaches to within 200 metres of the shore.

Geog. Jour. (R. G. S.), XXII. 128.

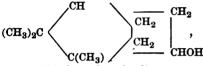
isobathymetric (i'sō-bath-i-met'rik), a. [Gr. loos, equal, + βabis, deep, + μέτρον, measure, + ic.] Having the same depth below sea-

isobiogenetic (i'sō-bī-ō-jē-net'ik), a. [Gr. iσος, equal, + Ε. biogenetic.] Indicating corresponding weights of two different foodstuffs which have equal dynamogenic and thermogenic values.

thermogenic values.

The dynamogenic and thermogenic value of the aliment is at the same time its biogenetic value. Two weights of different aliments for which these numerical values are the same are said to be isodynamogenic, isotiogenetic, or isoenergetic weights. They are equivalent from the point of view of their alimentary value.

A. Dastre, in Smithsonian Rep., 1898, p. 543.



prepared by the action of sodium on camphor. It crystallizes in hexagonal plates, melts at 216° C., sub-limes with extreme case, and resembles borneol in gen-

isobutyl (i-sō-bū'til), n. [Gr. loog, equate, butyl.] An organic univalent radical, equal. +

 $\frac{\text{CH}_3}{\text{CH}_3}$ > CHCH₂, occurring in a number of compounds, most of which are prepared from iso-butyl alcohol, a constituent of fusel-oil. isobutylate (i-sō-bū'ti-lāt), n. [isobutyl + -atel.] A metallic derivative of isobutyl al-

cohol

isobutyric (1'sō-bū-tir'ik), a. [Gr. loo; equal, + E. butyric.] Noting an acid, a colorless com-pound, (CH₃)₂CHCOOH, found in *Ceratonia* Siliqua and, combined with alcohol, in croton-

oil. It closely resembles butyric acid in general properties, boils at 155°C, and is also called dimethylacetic acid on methyl propanoic acid.

isocophalic (1-s0-se-fal'ik), a. [Gr. loog, equal, + κεφαλή, head, + -ic.] Noting a figure-composition, especially a Greek bas-relief, in which the heads are placed nearly or the symbol. the heads are placed nearly on the same horizontal line without considering the proportions of the figures. See isocephaly.

isocephalism (i-sō-sef'a-lizm), n. [isocephal(ic)]

+ -ism.] Same as isocephaly.

isocephalous (i-sō-sef'a-lus), a. [Gr. looς, equal, + κεφαλή, head, + -ous.] Same as *isocephalic.

isocheim, isocheimal. See isochime, isochimal. isochlor (1'so-klor), n. [Gr. loog, equal, + χλωρός, green (see chlorin).] An imaginary line connecting all places that have the same amount of chlorin.

amount of chlorin.

The examination for chlorine has gone far enough to indicate the amounts normal in the several great districts of the State, but not far enough to enable us to make an accurate map showing chlorine content of waters. Further analyses will be necessary to make a detailed report, including all the sections and subdivisions of these great natural divisions and isochlor map of the State.

R. D. Salusbury, in Geol. Surv. of New Jersey, 1900, p. 2.

isocholesterin (i'sō-ko-les'te-rin), n. [Gr. loog, equal, + E. cholesterin.] In chem., a substance of the class of the alcohols, isomeric with and generally similar to cholesterin or cholesterol, found in admixture with the latter, both chiefly in the form of esters, in wool-grease, fish- and whale-oils, etc. isocholesterol (i'sō-ko-les'te-rol), n. Same

*isocholesterin.

isochrome (i'sō-krōm), n. [Gr. looc, equal, + χρῶμα, color.] In optics, a curve, in the interference pattern produced when a crystal is viewed in the convergent field of a polariscope, which passes everywhere through re-gions having the same color; a curve of equal difference of path; an isochromatic curve.

A line connecting points at which the same events occur simultaneously. Thus the isochrone of travel is the line connecting points attainable by a person riding or an army marching from a given center forward during a given interval of time; the phenological isochrone, the line connecting points at which plants of any species attain simultaneously the same stage of development.

Specifically—2. In hydrol., the line bounding an area of watershed whose river-flow will concentrate in a given time at a central point to form a flood.

isochronize (ī-sok'rō-nīz), v. t.; pret. and pp. isochronized, ppr. isochronizing. [isochron(ous) + -ize.] To cause to vibrate in equal times; adjust to equality, as to frequency (any periodic operations or cycles).

isochronous vibration. See *vibration. isochronous vibration. See *vibration. isochronous vibration. isochronous vibration, n. [Gr. Iroc, equal, + κλάσις, breaking, + -ite².] A hydrated calcium phosphate occurring in colorless or snow-

isocnemic (î-sô-nê'mik), a. [Gr. $loo_{\mathcal{C}}$, equal, $+\kappa\nu\mu\mu\eta$, tibia, +ic.] In anthozoans, a term used to distinguish a unilateral pair composed of two equal mesenteries: contrasted with

chambers. Annals and Mag. Nat. Hist., Feb., 1903, p. 154.

isocodeine (i'sō-kō-dō'ln), n. [Gr. loo, equal, + E. codeine.] A colorless amorphous basic compound. CH₃O(OH)C₁₆H₁₄ONCH₃, propared by the action of dilute hydrochloric acid on dihydrothebaine. It softens at 55-60° C. and melts at 70-80° C.

The containing a ring of atoms of atoms of compound. CH₃O(OH)C₁₆H₁₄ONCH₃, propared by the action of dilute hydrochloric acid on dihydrothebaine. It softens at 55-60° C. and melts at 70-80° C.

The containing a ring of atoms of atoms of composed exclusively of carbon atoms. It is practically identical in meaning with *carbocyclic (which see).

1867, to surfaces in the atmosphere at which the movement or force of the wind is equal.

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isocolous (i-sō-sē'lus), a. [Gr. lσος, equal, + κοίλος, hollow, + -ous.] In ornith., noting an arrangement of the intestine in which the ascending and descending branches of the second and third loops are in contact, and the descending part lies to the left of the other.

Isocoma (i-sok'ō-mā), n. [NL. (Nuttall, 1841), ζ Gr. $i\sigma\sigma$, equal, $+\kappa \delta \mu \eta$, hair. The allusion is to the equal length of the florets in the flower-head, the genus differing in this characteristic from Lessingia.] A genus of dicotyledonous herbaceous or woody plants belonging to the family Asteraceæ. They are rather rigid,
tuffed, erect plants with somewhat viscid, entire, toothed,
or pinnatifid leaves and a corymbose terminal cluster of
six the same.

There are a boat 11 250 ing to the family Asteraceæ. They are rather rigid, tufted, erect plants with somewhat viscid, entire, toothed, or pinnatifid leaves and a corymbose terminal cluster of rayless heads of yellow flowers. There are about 11 species, natives of western North America. See Bigelovia and *buck-brush (c).

isocomplement (ī-sō-kom'plē-ment), n. [Gr. looς, equal, + E. complement furnished by the same animal, or one of the same species, which yields the amboceptor.
isocomplementophilic (ī'sō-kom-plē-men-tō-fil'ik), a. [isocomplement + Gr. φίλος, loving, + -ic.] Having reference to affinity for isocomplements.

complements.

isocoria (ī-sō-kō'rī-ā), n. [NL., \langle Gr. loo_5 , equal, $+ \kappa \delta \rho n$, pupil.] Equality in the diameters of the pupils of the eyes.

isocoumarin (ī-sō-kō'ma-rin), n. [Gr. isoc, equal, + E. coumarin.] A colorless compound, C₆H₄ (CO. O prepared by the distillation

of silver isocoumarin carboxylate. It crystallizes in lustrous plates, melts at 47° C., boils, with some decomposition, at 285–286° C., and is also called isocoumarinearboxylic anhydrid.

isocracy (i-sok'ra-si), n. [Gr. lσος, equal, + -κρατια, < κρατείν, rule.] A system of government in which political power is equally vested

ment in which political power is equally vested in all; equality in government.

isocrat (i'sō-krat), n. [isocrat(ic).] An advocate of isocracy. N. E. D.

isocratic (i-sō-krat'ik), a. [isocracy (-crat-) + -ic.] Of or pertaining to isocracy; believing in isocracy.

or hold isocratic principles.

isocreatinine (ī'sō-krē-at'i-nin), n. [Gr. iσος, equal, + κρέας (κρεατ-), flesh, + -in² + -inε².]

A yellow basic compound, C₄H₇ON₃, obtained from the muscular tissue of the haddock. It

crystallizes in lustrous leaflets which decom-

pose at 230-240° C., without melting.
isocrotonic (i*sō-krō-ton'ik), a. [Gr. loog,
equal, + E. crotonic.] Noting an acid, a col-CH₃CH

orless oil, | | , with an odor like butyric

acid. It is found in crude acetic acid from wood, boils at 75-76° C. under 23 millimeters pressure, and is in part converted into crotonic acid by boiling under the ordinary

isocrymal, n. (b) In hydrog., a line joining places where the mean minimum temperatures

at specific low temperatures. isocrymic (ī-sō-krī'mik), a. Same as *isocry-

E. cyanic.] Noting an acid, a very volatile liquid, HNCO, formed by heating cyanuric acid, or by the action of phosphoric anhydrid socnemic (1-sō-nō'mik), a. [Gr. loog, equal, tibia, + -ic.] In anthozoans, a term used to distinguish a unilateral pair composed of two equal mesenteries: contrasted with *anisocnemic.

In Madrepora and Porttes the new mesenteries arises as complete or incomplete bilateral pairs within one or both of the directive entoceles; but in Cladocora, Stephanocenic, Solenostrea, and Oculina they arise as unilateral isocnemic pairs within one or more exocelic chambers. Annals and Mag. Nat. Hist., Feb., 1993, p. 154.

same as fulminic acid.

isocytic (ī-sō-sit'ik), a. [Gr. loog, equal, + κίτος, a hollow, a cell.] Pertaining to organisms in which no specialization of cells has taken place, the cells being all equal and similar in size, form, and function. Cook and Swinale.

isocytotoxin (i-sō-sī-tō-tok'sin), n. [Gr. looc, equal, + E. cytotoxin.] A cytotoxin which causes the destruction of homologous cells of the same species.

suggested to designate compounds containing the group RN: NOM where M is an alkali metal and R an aromatic hydrocarbon radical.

isodictyal (ī-sō-dik'ti-al), a. [Gr. lσος, equal, + δίκτυον, net, + -al¹.] Having meshes of uniform size and shape, as a network of fibers in a sponge skeleton.

Skeleton consisting of . . . and a dermal isodictyal network with strands 2.3 spicules thick, with unispiculate strands in the intersices.

**Proc. Zool. Soc. London, 1900, I. 138.

isodimorphic (ī"sō-dī-môr-fik), a. Same as isodimorphous.

isodipyridine (i-sō-di-pir'i-din), n. [Gr. loo_{ζ} , equal, + E. pyridine.] A colorless liquid, CH——CH $NC_5H_4\mathring{C} \leftarrow \parallel ,$ $N(CH_3)CH$

prepared by the gentle oxidation of nicotine. It has a characteristic odor of mushrooms and boils at 280-281° C. Also called nicotyrine, or n-methyl- β -pyridyl pyrrole.

isocratize (ī-sok'ra-tīz), v.; pret. and pp. isoc-isodomic (ī-sō-dom'ik), a. Same as isodomous. isogamete (ī-sō-gam'ēt), n. [Gr. iσος, equal, + ratized, ppr. isocratizing. [isocratic + -ize.] isodont, a. 2. Having a series of teeth of I. intrans. To be isocratic. equal length, as many snakes: used by Cope II. trans. To force (others) to be isocratic or held isogratic principles. isodonic (i-so-dom'ik), a. Same as isodomous. isodont, a. 2. Having a series of teeth of equal length, as many snakes: used by Cope as a diagnostic character of various genera of snakes. Compare diacranterian.

Isodonta (i-sō-dom'tā), n. pl. [Gr. looς, equal, + οδοίς (οδοντ-), tooth.] In the Pelecypoda, a group in which the hinge-structure consists of an elaborate interlocking arrangement of two

concentric teeth and sockets which cannot be separated without fracture, as in Spondylus. In Pecten and other less specialized forms the apparatus is not so intricate.

isodontous (ī-sō-don'tus), a. Having all the teeth alike; isodont.

isodulcitan (î-sō-dul'si-tan), n. [Gr. loo_{5} , equal, + E. dulcitan (†).] A colorless amorphous compound, $C_{6}H_{12}O_{5}$, prepared by heating rhamnose at 100° C. The reverse change takes place in the presence of water.

isodulcite (ī-sō-dul'sīt), n. [Gr. ἰσος, equal, + E. dulcite.] Same as *rhamnose.

places where the mean minimum composition of the ocean water are the same.

II. a. 1. Having equal degrees of cold or equal low temperatures at any time or under any condition; having equal freezing temperatures.

E. dulcite.] Same as *rnamnose.

isodulcitic (i*sō-dul-sit'ik), a. [isodulcite + -ic.] Derived from isodulcite.—Isodulcitic acid, a colories compound, CoH1000, prepared by the action of nitric acid on rhamnose. It forms granular, tures.—2. Having similar physical properties at specific low temperatures.

isodulcitonic (i-sō-dul-si-ton'ik), a. [isodulcite + -one + -ic.] Derived from isodulcite. Same as *rhamnonic.

isodynamic, a. 2. Having the same value in reference to the production of energy: said of different articles of food.

isodynamical (ī"sō-dī-nam'i-kal), a. Same as

isodynamic.

isodynamogenic (i'sō-di-na-mō-jen'ik), a. [Gr. ioo, equal, + E. dynamogenic.] Equally dynamogenic: said of the corresponding weights of two different food-stuffs if their dynamogenic values are alike.

isodyne (i'sō-din), a. [Gr. loo, equal, + $\delta i\nu (a-\mu \iota \zeta)$, power.] Having equal force: specifically applied by Professor Diro Kitao of Tokio, in 1887, to surfaces in the atmosphere at which the movement or force of the wind is equal.

quantities of the two opposite kinds of electricity; acted apon by equal and opposite electric attractions.—Isoèlectric point, in phys. chem. of colloids in solution, the point where the electrolytic motion of the dissolved colloid, which in certain conditions takes place in the direction of the electric current and in other conditions takes place in the opposite direction, is made to vanish, as by the addition of a minute quantity of an electrolyte. It is supposed that the colloid can exist in solution only as long as its particles preserve their electric charges. When an electrolyte is added it is supposed that the particles of the colloid have their charges neutralized by the conjunction with them of the mobile lons of the electrolyte and coagulation then occur.

At the isoelectric point, for a distinct small quantity of barium chloride or acid, the electric movement vanishes and coagulation or precipitation occurs.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 61.

is the same.

isodiabatic, a. II. n. A curve which represents the isothermal changes of pressure and volume of a substance while the same quantity of heat is being transferred to it or from it.

isodialuric (i-sō-di-a-lū'rik), a. [Gr. loog, equal, tender of the distance of the same quantity of heat is being transferred to it or from it.

isodialuric (i-sō-di-a-lū'rik), a. [Gr. loog, equal, tender of the same quantity of heat is being transferred to it or from it.

isodialuric (i-sō-di-a-lū'rik), a. [Gr. loog, equal, tender of the same quantity of the same quantity of heat is being transferred to it or from it.

isodialuric (i-sō-di-a-lū'rik), a. [Gr. loog, equal, tender of the same quantity of

netic.

isoënergic (i'sō-e-ner'jik), a. [Gr. iσος, equal. + ενεργός, working (see energy), + -ic.] Of equal energy. The isoënergic lines of a diagram may show changes of any kind except intrinsic energy, which remains constant during the change of the other quantities.

isoëphedrine (ī-sō-ef'e-drin), n. equal, + E. cphedrine.] A crystalline alkaloid. C₁₀H₁₅NO, isomeric with ephedrine contained in Ephedra distachya, and other species of Ephedra. It is a mydriatic. isoeugenol (ī-sō-ū'jō-nol), n. [Gr. iooc, equal.

+ E. eugenol.] A colorless liquid, HOC6H3 (OCH₃)CH:CHCH₃, prepared by the action of potassium hydroxid on eugenol. It boils at 258-262° C. and is used in the manufacture of vanillin. Also called 1'-propenylphenyldiolvanillin. Also cal (3,4)3-methyl ether.

isoform (i'sō-fôrm), n. [Gr. isos, equal, + E. form(ic).] 1. Same as p-isodoxyanisol, CH₃OC₆ H₄IO₂.—2. An antiseptic powder composed of equal parts of iodoxyanisol and calcium phospĥate.

In natality tables, the ages of the father and mother take the place of the longitudes and latitudes in weather charts, and the lines of similar birth rates, or, as I would call them, 'isogens,' take the place of isobars.

Francis Galton, in Proc. Roy. Soc. London, Jan. 18, 1894.

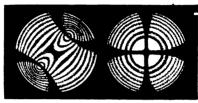
isogonal. I. a. 2. Orthomorphic.—Isogonal conjugates. See *conjugate.

II. n. 2. pl. Any two straight lines which are symmetrical with regard to an angle-bisector: called *isogonals* with reference to that

isogonality (ī-sō-gō-nal'i-ti), n. [isogonal + -ity.] The quality of being isogonal.
isogonic¹, a. II. n. In terrestrial magnetism, a line or surface connecting places where the magnetic needles have equal magnetic declinations.

sogonism, n. 2. Similarity in crystalline form;

1 sogonism, n. 2. Similarity in crystalline form; specifically, that existing between the crystals of chemical compounds which are not closely related in composition. See isomorphism.
1 isogyre (i'sō-jīr), n. [Gr. iσος, equal, + γῦρος, circle.] In optics, one of the lines or curves in the interference pattern produced when a crystal is viewed in the convergent field of a polariscope; a line of constant direction of polarization. The principal isogyres are heavy black



markings upon the interference pattern, sometimes in the form of a cross, sometimes appearing as hyperbolæ which pass through the optic axis. P. Drude, Theory of Optics, p. 354.

isogyric (î-sō-jī'rik), a. [isogyre + -ic.] Of or pertaining to isogyres; having constant direction of polarization: said of certain curves in the interference patterns of crystals. See the interference patterns of crystals. See the interference patterns of crystals. See the interference pattern of crystals. See the interference pattern, sometimes appearing the neutrophility isohypsometric (î'sō-hip-sō-met'rik), a. [isogyre + -ic.] Of or pertaining to isogyres; having constant direction of polarization: said of certain curves in sol-iwashi (ê'sō-ō-wā'shō), n. [Jap., \(\cdot iso, \) shore, + iwashi, sardine.] A Japanese name of one of the atherine fishes, Iso flos-maris, a little fish of the surf. Also known as namino-hana, 'flower of the wave.'

isolactose (î-sō-lak'tōs), n. A colorless sugar, a little isomeric with lac-

South of the Tropic of Capricorn the isohalines run nearly east and west, salinity diminishing quickly to the Southern Ocean.

isohelic (i-sō-hē'lik), a. and n. [Gr. laoc, equal, + ήκιος, sun, + -ic.] I. a. Having equal amounts of clear sunshine.

Probably, the observations of sunshine are still more complete in the British Isles than in any other country, but Herr Helmuth König, of Hamburg, has found sufficient material for a first attempt to draw 'tsoketic' lines for Western Europe.

Geog. Jour. (R. G. S.), X. 306.

II. n. A line connecting points which have equal variability or equal annual amounts of sunshine.

isohemagglutination (ī-sō-hem-a-glö-ti-nā'shon), n. [Gr. loog, equal, + aiµa, blood, + E. agglutination.] Normal agglutination of

+ E. agglutination.] Normal agglutination of the red blood-corpuscles. See the extract. The power of the blood serum of certain individuals to agglutinate the red blood cells of certain other individuals has interested clinical pathologists for some time. ... Whereas the earlier observers of human isohenagglutination asserted that isoagglutinins occurred only in the sera of pathological states, and was of specific and diagnostic importance, the later researches of Landsteiner and others have shown conclusively that the sera of normal individuals quite as frequently clump the corpuscles of other normal or diseased persons.

F. P. Gay, in Jour. Med. Research, Dec., 1907, p. 321.

isohemagglutinate (i-sō-hem-a-glō'ti-nāt), v. i. and t. [See *isohemagglutination.] To produce isohemagglutination.

The isohemagglutinating power of serum resists heating to 56° C. for thirty minutes, aithough the serum used in these experiments was freshly obtained and not

heated.

F. P. Gay, in Jour. Med. Research, Dec., 1907, p. 321. isohemolytic (i'sō-hem-ō-lit'ik), a. [isohemolysin (-lyt-) + -ic.] Having reference to the action of an isohemolysin.

isohesperidin (i'sō-hes-per'i-din), n. [Gr. ioo, equal, + E. hesperidin.] A yellowish, crystalline glucoside, C₂₂H₂₆O₁₂.2H₂O, said to be present in the bitter-orange peel.

isohomovanillin (i'so-hō'mō-vā-nil'in), n. [Gr. iσος, equal, + δμός, same, + E. vanillin.] A colorless compound,

_ CH₃OC₆H₂(OH)(CH₃) CHO,

isohumic (ī-sō-hū'mik), a. [Gr. looc, equal, + E. humic.] Having equal percentages of humic

isohydric (i-sō-hī'drik), a. [Gr. looc, equal, + E. hydr(ogen) + -ic.] In phys. chem., possessing equal concentration of hydrogen ions.

Some acetic acid is formed, and this process will go on till the solutions of the two acids are isohydric: that is, till the dissociated hydrogen ions are in equilibrium with both.

isohyet (ī-sō-hī'et), n. [Gr. lσος, equal, + ἰετός, rain.] Same as isohyetal. Also isohyetose.

The increase of goats, mules, and asses in the drier areas graphically shown on the maps, and would have been ade clearer by a series of isohyets.

Geog. Jour. (R. G. S.), XV. 55.

isohygrometric (īs'ō-hī-grō-met'rik), a.

The flora of California may be likened to a checker-board, the lines between the squares representing isohy-grometric and isothermal lines. F. V. Coville, contrib. Nat. Herb., IV. 20.

isohyp (ī'sō-hip), n. [Prop. "isohyps or "isohyps, $\langle Gr. i\sigma c, equal, + \dot{\nu}\psi c, height.$] A line joining isohypsometric localities.
isohypercytosis (ī'sō-hī-per-sī-tō'sis), n. [NL. $\langle Gr. i\sigma c, equal, + \dot{\nu}\pi\dot{\epsilon}\rho, over, + \kappa\dot{\nu}\tau c, a$ hollow (a cell), +-osis.] An increase of the number of leucocytes, with normal percentage relations of the neutrophilic cells as regards. relations of the neutrophilic cells as regards the distribution of the different nuclear forms.

isolate, a. II. n. In psychol., a feature or quality abstracted by attention from the complex of qualities constituting an object and considered by itself alone; the result of an analysis of a construct.

We may call the process by which we select a certain quality, and consider it by itself to the neglect of other qualities, isolation, and the products of the process we may term isolates.

C. L. Morgan, Animal Life and Intelligence, p. 322.

Isolated pawn. See *pawn².

isolation, n. 1. Specifically, removal from communication or contact with others; also, the condition of being so removed. An isolation ward, hospital, or camp is a ward, hospital, or camp in which isolation of the sick or of those who have been exposed to infection is secured.

Isolation of Blastomeres.—As long ago as 1869 Hacckel divided the blastules or morules of Siphonophora with a fine needle into two, three, or four pieces, and observed that each developed into a complete larva.

Encyc. Brit., XXXII. 212.

2. In psychol., the process whereby one selects a certain quality of an object for consideration, to the neglect of other qualities; selection by attention. C. L. Morgan.

Discriminate isolation, the separation or isolation of a race or variety from its parent stock in such a way as to prevent free intercrossing.—Indiscriminate isolation, the separation of the individuals that compose a species into two or more sets without segregation or the selection of those that differ.

isolationist (is-ō-lā'shon-ist), n. [isolation + -ist.] 1. One who believes that a new race or variety cannot become fixed or established through natural selection unless its represen-

2. In recent United States politics, an advocate of the policy of non-interference or nonparticipation in international affairs.

prepared by the action of chloroform and alkali isolichenin (i-sō-lī'ken-in), n. [Gr. loo_{ζ} , equal, on the compound $CH_3OC_6H_3(OH)CH_3$. It crystallizes in needles and resembles vanillin in carbohydrate contained in Iceland moss, Cet-+ E. lichenin.] An amorphous water-soluble carbohydrate contained in Iceland moss, Cetraria Islandica,

isolysin (ī-sol'i-sin), n. $\lceil isolysis + -in^2. \rceil$ lysin which will cause the destruction of cells of an animal of the same species as the one which furnishes it.

isolysis (ī-sol'i-sis), n. [Gr. lσος, equal, + λύσις. dissolution.] The dissolution of cells 301y818 (1-801 1-202)
λίσις, dissolution.] The dissolution or cens
of a given species by the homologous cells of
the same species. Vaughan and an animal of the same species. Novy, Cellular Toxins, p. 129.

isolytic (î-sō-lit'ik), a. [isolysis (-lyt-) + -ic.]
Causing or having reference to isolysis.

It was found, in fact, that under these circumstances lytic substances are sometimes, though not uniformly, developed. The possibility of the formation of isolytic substances was thus established.

Med. Record, Feb. 14, 1903, p. 247.

loog, equal, + E. hygrometric.] Alike in average conditions of atmospheric moisture.

loog, equal, + E. magnetic.] I. a. Having
The flora of California may be likened to a checker.

II. n. A line joining places which have the same magnetic elements. Terrestrial iso-magnetica refer specifically to the earth's surface.

Rücker and Thorpe's next step was to obtain formulæ giving smooth curves of continuous curvature, approximating as closely as possible to the district lines. These smooth curves are called terrestrial isomagnetics; they may be supposed to show what the magnetic elements would be in the absence of disturbances peculiar to special parts of the survey area or its immediately coterminous regions.

Encyc. Brit., XXX. 461.

isomaltose (i-sō-mâl'tōs), n. [Gr. loo, equal, + E. maltose.] A substance formed together with maltose from starch on diastatic digestion. It has been produced synthetically from dextrose, does not ferment, and is isomeric with maltose, C₁₂H₂₂O₁₁.

isomeric, a. 3. In petrog., noting phanero-crystalline rocks composed of a single kind of mineral. Brongniart, 1827.

isomerism, n. In the widest sense this term is applied to any two or more chemical compounds having the same percentage composition. Various degrees and kinds of isomerism are distinguished, the primary distinction being between chemical and physical isomerism. Chemical isomerism may be subdivided as follows: Polymerism, which is applied to compounds with the same percentage composition, but with molecular weights differing by some constant value: example, ethylene, C₂H₄, and butylene, C₄H₅, molecular weights 28 and 56 respectively. Polymerism may be either accidental or generic, according to whether the compounds belong to the same or different classes. Metamerism is applied to compounds with the same percentage composition and molecular weight, but containing homologous radicals in the molecule: examples are propylamine, C₃H₇, NH₂, ethylmethylamine, C₄H₅, NHCH₃, and trimethylamine, NCH₃), Chain or nucleus isomerism characterizes compounds which have the same number of similar atoms in the molecule, but in which the carbon atoms forming the nucleus are differently grouped: as, normal butane, CH₃CH₂CH₂CH₃, and isobutane, (CH₃)₃CH. Position or place isomerism exists in compounds which have similar nuclei but differ in the relative position of certain substituting atoms or radicals in this nucleus: as, primary or a-propyl chlorid, CH₃CHCHCH₃. Structural isomerism applies to compounds which have the same percentage composition and molecular weight but differ in the arrangement of atoms in their molecules. Physical isomerism characterizes compounds which consist of varying aggregations of chemically similar nolecules. It was first used of substances which are now termed geometrical, stereo-isomeric, or optically isomeric. Alloisomeric, harmonical isomerism is applied to compounds which have perfectly similar linkage and spatial arrangement of atoms, but which differ in energy content, that is, in atomic motion. (Tanatar, Ann. Chem. (Liebig), 273, 55.) Geometrical isomerism is a

isomerization (i-som'e-ri-zā'shon), n. [isomerize + -ation.] In chem., the production of isomeric forms of a given substance or class of substances. [Rare.] Nature, Nov. 13, 1902, p. 48.

through natural selection unless its representative individuals are locally or topographically separated or segregated from the remainder of the species.

This way of accounting for progress in one or more directions may prove as inadequate as the one suggested by isolationists.

Rep. Brit. Asi'n Advancement of Sci., 1901, p. 676.

2. In recent United States politics, an advortant of the relations of the project of the pro

isometropia (i'sō-mē-trō'pi-ä), n. [NL., \langle Gr. loo, equal, + μέτρον, measure, + $\dot{\omega}\psi$ ($\dot{\omega}\pi$ -),

A condition in which refraction is the eve.1 ame in the two eyes.

same in the two eyes.

isomorphic, a. 2. In biol.: (b) Different in ancestry, but alike in appearance; heterophyletic; convergent.—3. In group-theory, related, as the group Γ to the group G, so that to every substitution g of G corresponds one substitution g of G corresponds the product yg' of the two corresponding substitutions of Γ, and to the product gg' of any two substitutions of G corresponds the product yg' of the two corresponding substitutions of Γ.— Multiply isomorphic, said of two groups when Γ is isomorphic to G and, inversely, to every substitution of G.— Simply isomorphic, said of two groups when Γ is isomorphic to G and, inversely, to every substitution of G.— Simply isomorphic, said of two groups when Γ is isomorphic to G and, inversely, to every substitution of G.— Simply isomorphic, said of two groups when Γ is isomorphic to G and, inversely, to every substitution of G.— Simply isomorphic, said of two groups when Γ is isomorphic to G and, inversely, to every substitution of G.— Simply isomorphic, said of two groups when Γ is isomorphic placed by the coasional or exceptional parthenogenesis. See normal *parthenogenesis. of the cocurrence of equal quantities, conditions, or frequencies of any phenomenon in its relation to two independent coördinates. This isomorphic, said of two groups when Γ is isomorphism, n. 2. In biol., the state or consistency in the class-name of hydrocarbic paraffin (i-sō-patr' then-ō-jen'e-showing of F. baraffin series which have a branched carbon chain.

Isomorphic, a. (a. 2. In biol., the state or consistency in the class-name of hydrocarbic paraffin (i-sō-patr' then-ō-jen'e-showing of the paraffin series which have a branched carbon chain.

Isomorphic, a. (a. 2. In biol., the state or consistency in the class-name of hydrocarbic paraffin (i-sō-patr' then-ō-jen'e-showing of the class-name of hydrocarbic paraffin (i-sō-patr' then-ō-jen'e-showing of the class-name of hydrocarbic paraffin (i-sō-patr' then-ō-jen'e-showing of the class-paraffin (i-sō-patr' then-ō-jen'e-sho

dition of being different in ancestry, but alike in appearance. See *isomorphic, 2(b).—3. In group-theory, the state or character of being isomorphis.—Meriedric isomorphism, multiple isomorphism. See multiply *isomorphic.—Multiple isomorphism, the state of being multiply isomorphic. See multiply *isomorphic.

isomorphous, a. 2. In math., same as iso-

morphic, 4.

-ison. [ME. -ison, -isoun, < OF. -aison, -eison, -eson, -ison, < L. -atio(n-) (whence the 'learned' form -ation, which is thus a doublet of -ison), -etio(n), -itio(n).] A suffix, really -son, with an element (-i-) belonging to the stem in some nouns coming from Latin through the Old French. It is equivalent to -ation, -etion, -ition, in nouns originally abstract. Examples are comparison, fermison, garrison, jettison, orison, venison, warnison. In benison and malison doublets of benediction and malediction, the -i- belongs to the reduced radical. In caparison the termination is conformative. See -son, -tion.

isoneph (i'so-nef), n. [Gr. loos, equal, + νεφ(έλη), cloud.] A line joining places that have the same percentage of cloudiness; an isonephelic line.

isonephrotoxin (i'sō-nef-rō-tok'sin), n. [Gr. loog, equal, + E. nephrotoxin.] A nephrotoxin directed against the renal cells of animals of the same species as the one furnishing the nephrotoxin.

isonicotic (î'sō-ni-kot'ik), a. [isonicot(ine) + -ic.] Noting an acid, a colorless compound, N < CHCH > CHCOOH, prepared from luti-

dine. It crystallizes in groups of slender needles, or, by sublimation, in small plates and melts, in a sealed tube, at 298-299° C. Also called pyrocinchomeronic acid, or, preferably, 4- or y-pyridinecarboxylic acid.

isonicotinic (i'so-nik-ō-tin'ik), a. [isonicotine + -ic.] Same as *isonicotic.

+-ic.] Same as *isonicotic.

isonitrile (ī-sō-nī'tril), n. [Gr. loog, equal, +
E. nitrile.] The name of a class of organic
compounds isomeric with the nitriles and cyanides, containing the univalent group NC.
They are also called isocyanides and, less
correctly, carbylamines, and are distinguished
by their highly objectionable odor.

isonitro (ī-sō-nī'trō), n. [Gr. loog, equal, +
E. nitro.] A hypothetical divalent radical,

pounds. They are isomeric with the nitro-derivatives and are pseudo-acids.

derivatives and are pseudo-acids.

isonitroso (1'sō-nī-trō'sō), n. [Gr. loog, equal,
+ E. nitroso.] A hypothetical bivalent radical,
> NOH, which occurs in certain organic compounds. These compounds are identical with the corresponding oximes, the only difference being in the mode of formation. Isonitroso derivatives are formed from nitrous acid and compounds containing the group > CH₂; oximes from hydroxylamine and compounds containing the group > CO.

isonormocytasis (1'sō-nār'mō-sī-tō'sis)

the group > CO.

isonormocytosis (i'sō-nôr'mō-sī-tō'sis), n.

[NL., ⟨ Gr. lσος, equal, + L. norma. norm, + Gr. κὐτος, a hollow (a cell), + -osis.] A condition in which there is a normal number of the leucocytes with normal relations of the neutrophilic cells as regards the percentage distribution of the different nuclear forms.

iso-orcinol (ī-sō-ôr'si-nol), n. Same as *isorcinol.

isopag (ī'sō-pag), n. [Gr. $l\sigma o c$, equal, + $\pi η γ ν b ν a ι$, fix, stiffen, freeze (cf. $\pi a γ o c$, scum).] A line, on a chart, connecting places at which rivers, harbors, lakes, or the ground are frozen or covered with ice during the same number of days continuously in winter.

isopathic (1-80-path is), a. [isopath-y + -ic.] Of or pertaining to isopathy.
isopectic (1-80-pek'tik), n. [Gr. iσος, equal, + πηκτός, fixed, stiffened, frozen: see *isopag.]
A line, on a chart, connecting places at which the first ice of winter forms simultaneously.

the first ice of winter forms simultaneously.

isopelletierine (ī-sō-pel-e-tēr'in), n. [Gr. loo, equal, + E. pelletierine.] A colorless oily alkaloid, C₈H₁₅ON, obtained, together with pelletierine, from the rind of pomegranate root. It boils at 125° C., under 100 millimeters, and has exactly the same properties as pelletierine, except that it is optically inactive.

isopentyl (ī-sō-pen'til), a. [Gr. loo, equal, + E. pentyl.] Same as *isoamyl.

isopepsin (ī-sō-per'sin), n. [Gr. loo, equal, + E. pepsin.] A supposed modified form of pepsin, effected by heat.

isopericoslous (ī'sō-per-i-sō'lus), a. [Gr. loo,

isopericælous (i'sō-per-i-sē'lus), a. [Gr. lσος, equal, + περί, around, + κοίλος, hollow, +-οus.] In ornith., noting an arrangement of the intestine in which all the loops are left-handed and the third is inclosed by the second.

isoperimeter (1'sō-pe-rim'e-tèr), n. [Gr. loog, equal, + E. perimeter.] A figure equal in perimeter to another.

isoperimetric (ī-sō-per-i-met'rik), a. Same as

isoperimetrical.

isophenomenal (i'sō-fē-nom'ē-nal), a. [Gr. loog, equal, + φαινόμενα, phenomena, + -all.] Isophenomena, + αll.]
isophone (1'sō-fōn), n. [Gr. loo, equal, + E. (tele)phone.] A form of microphonic tele-

phone transmitter.

isonicotine (i-sō-nik'ō-tin), n. [Gr. $l\sigma\sigma\varsigma$, equal, +E. nicotine.] A colorless compound, $C_{10}H_{14}$ - N_2 , prepared by the reduction of dipyridyl. It crystallizes in slender, very hydroscopic needles melting at 78° C.

isophotal (i-sō-fō'tal). a. and n. [Gr. $i\sigma\sigma$, equal, $+\varphi \tilde{\omega}_{S}$ ($\phi\omega \tilde{\tau}$ -), light, $+-al^{1}$.] I. a. Of or pertaining to equality of illumination: as, an

isophotal line.

of light-flux, drawn everywhere through points of equal illumination. Also called *sophote. Trans. Amer. Inst. Elect. Engin., July-Dec., 1902, p. 74.

isophote (i'sō-fōt), n. [Gr. lσος, equal, + φῶς (φῶτ-), light.] Same as *isophotal.

>N < OH, which occurs in certain organic comisophotography (î'sō-fō-tog'ra-fi), n. Photog-isopyc (î'sō-pik), n. [isopyc(nic).] An isopyc-nounds. They are isomeric with the nitro-raphy of objects in their exact size. Encyc.

isophthalic (ī-sof-thal'ik), a. Noting an acid, a colorless compound, $C_6H_4(COCH)_2$, pre- isopycnic (i-sō-pik'nik), a. and n. I. a. Relatpared by the oxidation of various meta (1.3) ing to or indicating equality of density: as, dialkyl substituted benzene derivatives. It crystallizes in long hair-like needles, melts above 300° C., and sublimes without decompo-

isophytotone (ī-sō-fī'tō-tōn), n. [Gr. loos, equal, + φντόν, plant, + τόνος, tension, stress.] In phytogeog., a line connecting the latitudinal points of the same maximum or minimum

Isopiestic line. See *line2.

Isopisthus (i-sō pis'thus), n. [NL., ⟨Gr. lσος, equal, + ὁπισθεν, behind. The name alludes to the equality of the soft dorsal and anal fins.]
 Isopisthus (i-sō pis'thus), n. [NL., ⟨Gr. lσος, equal, + ὑπισθεν, behind. The name alludes to the equality of the soft dorsal and anal fins.]
 Isorcin (i-sōr'sin), n. Same as *isorcinol.

A genus of fishes of the family Scienide, the croakers, found on both coasts of tropical

isopolite (i-sop'ō-līt), a. [Gr. iσοπολίτης, a citizen with equal rights, \(\ellipsi\) isopolitical, + πολίτης, citizen.] Same as *isopolitical.

isopolitical (i'sō-pō-lit'i-kal), a. [As isopolitic + -ic + -all.] Relating to the possession of mutual political rights.

isoprecipitin (i'so-pre-sip'i-tin), n. [Gr. loog, equal, + E. precipitin.] A precipitin which will react with the serum of an animal of the same species.

isoprene (i'sō-prēn), n. A hydrocarbon (C5-H8), one of the hemiterpenes, produced in the destructive distillation of india-rubber or gutta-percha, and also obtainable from oil of turpentine. It is a coloriess, highly volatile liquid, which has special interest from the fact that it is converted into india-rubber by prolonged contact at ordinary temperature with strong hydrochloric acid or nitrosyl chlorid. Sadtler, Handbook of Indust. Chem., p. 99.

Saatter, Handbook of Indust. Chem., p. 99.
 isopropyl (i-sō-prō'pil), n. [Gr. loog, equal, + E. propyl.] A hypothetical univalent radical, (CH₃)₂CH, occurring in many organic compounds. Also called secondary propyl.—Isopropyl alcohol, a colorless liquid, CHCHOHCH, prepared by the action of lead hydroxid on isopropyl todide: secondary propyl alcohol or 2-hydroxypropane. It bolis at 82-85° C. and yields acctone when oxidized.
 Isopsetta (i-sop-set'ä), n. [NL., < Gr. loog, equal, + ψηττα, a flounder.] A genus of Californian flounders.

balance one another. Jour. Phys. Chem., May, 1904, p. 344.

Isopsychric curve, in thermodynamics, a curve denoting a process in which evaporation equals and neutralizes condensation.

Curves of constant M₂ [mass of vapor] being termed isopsychric curves.

J. E. Trevor, in Jour. Phys. Chem., May, 1904, p. 344.

II. n. An isopsychric curve.

This curve is the locus of the points of mutual tangency of the adiabatics and isopsychrics.

J. E. Trevor, in Jour. Phys. Chem., May, 1904, p. 344.

isopter (i-sop'ter), n. [Gr. loo_{ζ} , equal, $+\delta \tau = \tau(l\kappa \delta_{\zeta})$, of seeing.] A curve denoting the points on the retina of equal visual acuteness.

on the retina of equal visual acuteness.

II. n. In photom., a line or surface, in a field light-flux, drawn everywhere through points of equal illumination. Also called isophote.

Frans. Amer. Inst. Elect. Engin., July-Dec., 1902, p. 74.

Sphote (i'sō-fōt), n. [Gr. loos, equal, + \$\phi_{\text{cor}}\$]

Same as \$\pi \text{isophotal}\$.

Same as \$\pi \text{isophotal}\$.

isopycnal (ī-so-pik'nal), a. and n. Same as *isopycnic.— Isopycnal gradient. See *gradient.

an isopycnic line.

II. n. A line or surface, in a substance or medium, at every point of which the density is the same. Also isopyc.

isopyre (i'so-pir), n. [Gr. loos, equal, $+\pi i \rho$, fire.] An impure form of opal occurring in black compact masses, occasionally spotted

In phytogeog., a line collection of the same maximum or minimum remperature and, therefore, according to Pound and Clements (the authors of the term), limiting on either side the zone of the occurrence of plants of like maximum and minimum endurance. Compare life *zone.

Isopistic line. See *line².

Isopisthus (ī-sō.pis'thus), n. [NL., < Gr. loos, 17, 1903, p. 168.

Isopisthus (ī-sō.pis'thus), n. Same as *isorcinol.

isorcinol (i-sôr'si-nol), n. [Gr. isoc, equal, + E. orcinol. A colorless compound, CH3C6H3 (Ĉ.4)₂.H₂O, prepared by fusing toluene-2,4-disulphonic acid with potassium hydroxid. It crystallizes in slender needles, melts at 87° C., boils at 260° C., and has a slightly sweet taste. Also called isocretical, cresorcinol, or γ-orcinol.

isotropesis (î-sō-rop'ē-sis), n. [Gr. lσος, equal, + ροπη, downward inclination, balance of the scale.] See the extract.

The make-and-break contact between the oxygen atoms would give marked activity to these atoms. Such a process other than tautomerism, where a wandering of a labile atom is suggested, has been named by Stewart and Baly "isorropesis" (equipose), and differs from the former in that the head of its absorption band lies much nearer the red end of the spectrum or almost in the visible violet region. Pop. Sci. Mo., Feb., 1908, p. 132.

isorropic (i-sō-rō'pik), a. [Gr. 1σος, equal, + ροπή, inclination downward, + -ιc.] Noting a line or curve which passes through the coplanar points for which the value of a function is the same.

isorubine (ī-sō-rö'bin), n. [Gr. looc, equal, + E. rubine².] A basic coal-tar color: same as new **★**magenta.

isosafrol (i-sō-saf'rol), n. [Gr. lσος, equal, + E. safrol.] A colorless liquid,

 $CH_3CH: CHC_6H_3 \langle \stackrel{\circ}{Q} \rangle CH_2,$

prepared by heating safrol with alcoholic potassium hydroxid. It boils at 246-248° C.

isoscope (i'sō-skōp), n. [Gr. lσος, equal, + σκοπείν, view.] An appliance for determining the changes in position of the vertical and horizontal lines in movements of the eyeball.

isoseist (i'sō-sist), n. [Gr. lσος, equal, + σειστός, shaken, ⟨σείειν, shake, quake: see seismic.] 1. A line drawn through points that experience an earthquake shock at the same moment; an isoseismal. Rep. Brit. Ash Advancement Sci., 1900, p. 64.—2. Any event that occurs simultaneously with a given earthquake shock.

eartinquake shock.

isosmotic (i-sos-mot'ik), a. [Gr. loog, equal, + E. osmotic.] In phys., of equal osmotic pressure.—Isosmotic solutions, solutions which hold the same number of molecules of a dissolved substance per unit volume at the same temperature. Since the lawsof gases hold for comotic pressures, the number of molecules thus contained is that contained in a unit volume of an ideal gas at the given pressure and temperature.

Isosoma, n. 3. [l. c.] An insect which belongs to the genus Isosoma.—Vine isosoma, the grape-seed isosoma, now referred to the genus Brozysoma (E. vitis), a phytophagous chalcidid whose larvs feeds in grape-seeds.—Wheat isosoma, an American phytophagous chalcidid, Isosoma (Philachyra) grande, whose larvs lives in the stems of wheat.

Isosoma, n. 3. [l. c.] An insect which belongs to the genus Isosoma, the grape-seed isosoma, an American phytophagous chalcidid, Isosoma (Philachyra) grande, whose larvs lives in the stems of wheat.

Isosoma, n. 3. [l. c.] An insect which belongs to the genus Isosoma, n. accurve representing phenomena which happen at constant temperature.—Dissociation isotherm, the curve showing the relation of concentration and amount of dissociation at constant temperature.

Isosoma, n. 3. [l. c.] An insect which belongs to the grape-seed isosoma, and where it is perature.—Dissociation isotherm, the curve showing the relation of concentration and amount of dissociation at constant temperature.

Isosoma, n. 3. [l. c.] An insect which belongs to the genus Isosoma, n. accurve representing phenomena which happen at constant temperature.

Isosoma, n. 3. [l. c.] An insect which belongs to the genus Isosoma, now referred to the genus Isosoma, the perature of the summer season.

Isosoma, n. 3. [l. c.] An insect which belongs to the genus Isosoma, the perature of the summer season.

Isosoma, n. 3. [l. c.] An insect which belongs to the graph and the perature of the summer season.

Isosoma, n. 3. [l. c.] An insect which happen at constant temperature.

Isosoma, n. 2. In math., a curve representing phenomena which happen at constant temperature.

Isosoma an insect which h



Wheat Isosoma (Isosoma (Philachyra) grande). a, b, larva; c, female; d, fore-wing; c, hind-wing.
All enlarged. (Riley, U. S. D. A.)

isospore, n. 3. One of the non-sexual spores, of uniform size, formed by certain rhizopods: contrasted with *anisospore.

isostasy (i-sos'tṣ-si), n. [Gr. ἰσος, equal, + στάσις, standing, station.] In phys., balance or equilibrium; the property of attaining a condition of stable equilibrium when under the action of permanent stress.

According to the doctrine of isostasy, which has found much favor with geologiats in recent years, the crust of the earth is in a delicately-balanced condition of equilibrium between forces which are tending on the one hand to depress and on the other to elevate it.

R. D. Satisbury, in Geol. Surv. of New Jersey, 1893, [p. 323.

isostath (i'sō-stath), n. [For *isostathm, < Gr. such as a gas or vapor, where there is no isostraθμος, evenly balanced, < iσος, equal, + change of temperature.

iστασθαι, isothermic (i-sō-ther'mik), a. Same as isostand.] A line connecting distant points in the earth's atmosphere which have the same isothermobathic (ī'sō-ther-mō-bath'ik), a. Same as isothermobathic (ī'sō-ther-mō-bath'ik), a. buoyancy after allowing for the change in the force of gravitation. Abbe, Preliminary

isostathmic (i-sō-stath'mik), a. [isostath (isostathm-) + -ic.] Of or relating to isostaths;

having the properties of isostaths; illustrating the course of isostaths at any particular moment.— Isostathmic line, a line of equal atmospheric buoyancy, as distinguished from a line of equal density; namely, the line that divides the lighter air from the heavier air, or the air that must go up from that which must go down in the interchange due to buoyancy. isostatic, a. 2. Related to or produced in

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accordance with isostasy.

isostatically (ī-sō-stat'i-kal-i), adv. In a
manner accordant with the principles of

The elevation of the land caused an ice-sheet to form gradually over it until the surface was depressed, isostatically, by the weight of accumulated ice and the cooling of the crust itself. Geog. Jour. (R. G. S.), XVIII. 517.

isostere (i'sō-stēr), n. [Also isoster; Gr. iσος, equal, + στερεός, solid.] 1. A line connecting points of equal specific volume in the ocean or atmosphere: the inverse of *isopyc. See

He (Professor V. Bjerknes) simplifies the hydrodynamic conceptions by dealing with density directly instead of temperature and pressure, and uses charts of "isosteres," or lines of equal density, very much as was proposed by the present writer in 1889 in his Preparatory Studies, where he utilized lines of equal buoyancy or "isostaths." Cleveland Abbe, in Encyc. Brit., XXX. 719.

2. In chem., a term applied to compounds possessing equal molecular volumes.

isosteric (i-sō-ster'ik), a. [isostere + -ic.] 1. Pertaining to or of the nature of an isostere. See *isostere, 1.—2. In phys. chem., having equal atomic volumes.

isosterism (i-sos'te-rizm), -ism.] The property of being isosteric or an isostere, in either sense of that word.

isostylous (i-sos'ti-lus), a. [Gr. lσος, equal, + στυλος, pillar (style), + -ous.] In bot., same as homostyled.

as homostytea.

isotalantosan (i'sō-tal-an-tō'san), n. isotaiantosan (1'so-tai-an-tō'san), n. [Gr. loog, equal, + ταλάντωσις, oscillation, + -an.]
In meteor., a line or region of equal annual ranges of temperature; a line of equal variability of mean daily temperature. Supan.
isote (δ-sō'tā), n. Same as *izote.

Isotelus (i-sot'é-lus), n. [NL., also Isoteles; ⟨ Gr. iσος, equal, + τέλος, an end.] A genus of Silurian trilobites closely allied to Illænus, but having eight thoracic segments.

isotheral, a. II. n. A line joining places on the earth's surface that have the same mean temperature during the summer season.

sure the rate of heat-conductivity, these lines or surfaces being characterized by equal degrees of temperature when heat is applied at

grees of temperature when heat is applied at a certain point. The isothermal lines on a crystal bear a simple relation to the molecular structure; for example, they are circles on the base of a hexagonal crystal, but ellipses on a prismatic face.

Isothermal coefficient of compressibility. See *coefficient.—Isothermal combustion, compression, curve, expansion. See *combustion, etc.—Isothermal surface, a surface every point of which has the same temperature. The line of intersection of an isothermal surface and any plane not parallel to it is an isothermal ine. thermal line.

 Π . n. 2. In thermodynam., a line or curve determined by the equation of state (pv = RT) of a system, when T has any constant value: a line of equal temperatures.—3. In spectro-photometry, a curve showing the distribution of intensities in the spectrum of a source of light maintained at constant temperature. Also called isotherm.

In diagram A are drawn isothermals, curves of equal temperature in which the abscisse are wave lengths, the ordinates intensities.

E. L. Nichols, in Amer. Jour. Sci., XVIII. 446.

isothermally (ī-sō-ther'mal-i), adv. In a manner involving no change of temperature: said of any process which involves changes of volume and pressure of a thermodynamic system, such as a gas or vapor, where there is no change of temperature.

isothiocyanic (1'sō-thi'ō-sī-an'ik), a. [Gr. loo_{ς} , equal, $+\theta \epsilon lov$, sulphur, $+\kappa i a \nu o_{\varsigma}$, blue, +-i c.] Pertaining to the isothiocyanates.—Isothiocy-

anic acid, a hypothetical acid, HNCS, the esters of which constitute the mustard oils. Also called thiocarbylamine. isotomic (i-sō-tom'ik), a. [Gr. iσος, equal, + τομή, a cutting, +-ic.] Cutting a line at points equally distant from its opposite extremities.

— isotomic conjugate. See *conjugate.

- isotomic conjugate. See *conjugate. isotonia (i-sō-tō'ni-Ḥ̄,), n. [NL., < Gr. ἰσοτονία, equal tension, < ἰσότονος, of equal tension, < ἰσος, equal, + τόνος, tension, tone.] Equality in tension between the different elements of living matter or between two solutions divided living matter or between two solutions divided by a dialyzing membrane. Isotonia of the blood is the state of equal tension in corpuscles and plasma, by which the integrity of the former is preserved. Isotonia in muscle is exhibited when the muscle shortens on the application of a stimulus, the two ends being approximated; it is destroyed when the extremities are fixed. Isotonia exists in two solutions separated by a porous membrane when no osmosis occurs. See osmose. Med. Record, Aug. 1, 1903, p. 189.

1sotonic, a. 2. In phys. chem., possessing or producing equal osmotic pressures: especially.

producing equal osmotic pressures; especially, having salts dissolved in such proportion as to occasion no change of volume in red bloodcorpuscles put in contact with the solution. Solutions having less concentration are called hypotonic; those having greater concentration, hypertonic. Poynting and Thomson, Properties of Matter, p. 190.

3. Relating to isotonia.—Isotonic contraction. See *contraction.

isotopic (i-sō-top'ik), a. [Gr. loog, equal, + τόπος, place, + -ic.] Similarly substituted: used of compounds containing similar atoms or groups in the same position with reference to some other atom or group, as m-chlortoluene and m-bromtoluene. Cohen and Miller, in Jour. Chem. Soc. (London), 1904, p. 1624. isotoxic (1-sō-tok'sik), a. [Gr. looc, equal, + τοξικόν, poison.] Same as *isolytic. Science, July 3, 1903, p. 9.
isotoxin (1-sō-tok'sin). n. [Gr. looc, equal, +

isotoxin. iso-tok'sin), n. [Gr. loog, equal, + E. toxin.] A toxin directed against cells of individuals of the same species. Vaughan and

Novy, Cellular Toxins, p. 144.

Isotricha (i-sot'ri-kä), n. [NL., $\langle \text{Gr.}i\sigma\sigma_{\zeta}, \text{equal}, + \theta\rho i\xi (\tau\rho_{\chi}), \text{hair.}]$ The typical genus of the family Isotrichidæ. Stein, 1859.

family Isotrichidæ. Slein, 1859.

Isotrichidæ (ī-sō-trik'i-dē), n. pl. [NL., < Isotricha + -idæ.] A family of holotrichous ciliate infusorians, having a more or less plastic but not contractile body, the cuticle thick, and the mouth posterior and accompanied by a distinct pharynx. It includes the genera Isotricha and Dasytricha, parasitic in the digestive tract of ruminants. Also Isotrichina. isotrimorphic (ifsō-trī-môr'fik), q. Same as

isotrimorphic (ī'sō-trī-môr'fik), a. Same as

*isotrimorphous.
isotrimorphism (ī'sō-trī-môr'fizm), n. trimorph-ous + ism.] .somorphism among the members of trimorphous groups. isotrimorphous (i'sō-trī-môr'fus), a. [Gr.

loos, equal, $+\tau \rho_i$, three, $+\mu \rho \rho \phi \hat{\eta}$, form, + -ous.] Exhibiting isotrimorphism.

isotropal (i-sot'rō-pal), a. Same as isotropic.
isotropism (i-sot'rō-pizm), n. [isotrop-y+-ism.] Same as isotropy.

isotropy, n. 2. In embryol., the property whereby all the parts of the unsegmented egg are alike capable of giving rise to any portion of the embryonic body: opposed to anisotropy. isotropyl-cocaine (i-sō-trō'pil-kō'ka-in), n. Same as *truxilline.

isouric (î-sō-ū'rik), a. [Gr. ioo, equal, + E. uric.] Noting an acid, a colorless, pulverulent compound, C₅H₄N₄O₃, prepared by the interaction of cyanamide and alloxantin. It is isomeric with uric acid.

isovalerianic (1'sō-vā-lē-ri-an'ik), a. Same as *isovaleric.

isovaleric. (i'sō-vā-lō'rik), a. [Gr. loo, equal, + E. valeric.] Noting an acid, a colorless oily compound, (CH₃)₂CHCH₂COOH, prepared from isobutyleyanide or by the oxidation of isoamyl alcohol. It boils at 174° C. and has an odor of valerian. Also called 3-methylbutorics of descriptions. tanoic acid.

isovoluminal (i'sō-vō-lū'mi-nal), n. [Gr. loo5, equal, + L. volumen (volumin-), in modern physical sense of 'volume,' + -all.] A curve or surface of equal volumes upon a thermodynamic diagram or model. Physical Rev., April, 1905, pp. 264, 265.

isoxazole (i-soks-az'ōl), n. [Gr. $i\sigma c$, equal, + E. ox(ygen) + az(ote) + -ole.] The name of a class of organic compounds containing the complex CR: CR CR: N

They are anhydrids of the oximes of β -diketones or β -ketoaldehydes, and correspond to the pyrazoles. Many of them have a strong odor resembling that of pyridine.

isoxime (i-sok'sim), n. [Gr. loo; equal, + of Brahma, Vishnu, Siva, Avalokiteshvara, E. oxime.] The name given to one of two or and other deities.

more forms in which some oximes are ob- I. S. W. G. An abbreviation of imperial stan-

issue, n.— Failure of issue. See *failure.— Issues on sheriffs, in Eng. law, amercements or fines to which sheriffs were subjected for neglect or omission to perform their duties. They were levied and collected out of the issues or profits of their lands: hence the name.

-ister¹. [L. -ister, a comparative suffix, con-

-ister¹. [L. -ister, a comparative suffix, consisting of -is, representing the original comparative suffix -0s, -us (as in min-us, etc.), + -ter, a secondary comparative suffix (see -ter).] A termination of several English words from the Latin, representing a comparative forma-tion not felt in English use. Examples are

tion not felt in English use. Examples are minister, sinister, etc.

-ister? [ME. -istre, < OF. -istre, a by-form of -iste (E. -ist), prob. due to conformity with agent-words in -istre, from L. -ister, -is-ter, as in ministre. < L. minister (see *-ister!).] A suffix, a variant of -ist, occurring in chorister, palmister, sophister, and other words now obsolete, as alchemister. It may aviet also in the solete, as alchemister. It may exist also in the English formation barrister.

istesso (i-stes'ō), a. [It. istesso, stesso, the same; \(\) L. *iste ipsus, iste ipse, 'that self': iste, he, that; ipse, he, one's self.] In music, in the expression l'istesso tempo, the same time or pace (as that of some preceding movement). Also called medesimo tempo.

Isthmiad (ist'mi-ad), n. [Gr. Ἰσθμάς (-aδ-), prop. adj., ⟨ Ἰσθμα, the Isthmian games: see Isthmian.] In Gr. antiq., the period of two years between dates of recurrence of the Isth-mian games. The Isthmian games were held in the first month of the second and fourth

years of each Olympiad.

isthmian, a. II. n. One who lives on an isthmus, as an Indian of the Isthmus of Italian-May (i-tal'yan-mā'), n. The meadow-

fish Bathythrissa.

istle, n.—Jaumave istle, the commercial name of the best grade of Tampico fiber. It is obtained from the young inner leaves of Agave lophantha, a plant native to northeastern Mexico. The center of production is the Jaumave valley, in the state of Tampico fiber, obtained from the inner leaves of several plants known in Mexico as palmas. The plants yielding the most of this fiber are the palma samandoca, Samuela Carnerosana, and the palma pits, Yuca Treculeana. See *palma pita and *palma amandoca.—Tula istle, a commercial grade of Tampico fiber, so called because produced most abundantly in the vicinity of Tula, in the state of Tamaulipas, Mexico. The fiber is obtained from the inner leaves of the lechuguilla. Agave Lecheguilla. It is from 12 to 30 inches long and nearly white in color.

istle-machine (is'tle-ma-shēn"), n. Same as Luj-fiber machine (which see, under *fiber1).

isuret (i-sū'ret), n. Same as *isuretine.

isuret (i-sū'ret), n. Same as *isuretine.
isuretine (i-sū'ret), n. A colorless compound, HON:CHNH2, prepared by the action of hydroxylamine and hydrocyanic acid. It forms rhombic columnar crystals, melting and partly decomposing at 104-105° C. Also called methenylamidoxime.

Isuropsis (ī-sū-rop'sis), n. [NL., < Isurus + Gr. δψις, appearance.] A subgenus of sharks Gr. $\delta\psi u$, appearance.] A subgenus of sharks belonging to the family Samnidx, the mackerel-

Isurus (i-sū'rus), n. [NL., ζ Gr. lσος, equal, + οὐρά, tail.] A genus of the mackerel-sharks, found on both sides of the northern temperate



dard wire-gage.

It. An abbreviation (b) of Italy.

I. T. An abbreviation of Inner Temple.

itaballi-wood (6-tä-bä'li-wud), n. [itaballi, native name of the tree in Guiana, + wood.]
The wood of Vochy Guianensis, which is used by the natives for making canoes. See Vochy (Vochysia).

itabo (ē-tä'bō), n. [Native name.] In Costa

Rica, Yucca elephantipes, a plant with real swollen at the base and growing to the height of 8 or 10 meters, with many compact branches and rigid, spreading, linear, minutely denticulate leaves. The flowers are creamy white, growing in a panicle. It is much planted about houses and in the hedges of matter.

growing in a panicle. It is much planted about houses and in the hedges of native gardens. In Guatemala and Honduras called *izote*.

itaconic (it-a-kon'ik), a. Noting an acid, a colorless compound, HOCOCH:C(CH₃)COOH, formed by the hydration of citraconic anhydrid at 150° C. It crystallizes in rhombic octahedra, melts at 161° C., and is closely related to citraconic and mescapia saids. related to citraconic and mesaconic acids.

tadibrompyrotartaric (it 'a-dī-brom-pī' rō-tār-tar'ik), a. Noting a crystalline acid, C₅H₆O₄Br₂, prepared by the addition of bromine to itaconic acid. When boiled with water

it gives aconic acid. When boiled with water it gives aconic acid.

Italian. I. a.—Italian defense, green, pool, sumac. See *defense, etc.

II. n. 3. A member of a race of honey-bees imported into the United States from Italy and having at least three yellow bands across the abdomen when the latter is distended with

sweet, Filipendula Ülmaria.

skin-disease. C. T. Davis, Manuf. of Leatner, p. 98. [Rare.]
itch-tick (ich'tik), n. The itch-mite.
itchwood-tree (ich'wud-trē), n. A forest-tree
of the Fijian Islands, Semecarpus Vitiensis, belonging to the sumac family: called kau-karo
(itch-tree) by the natives. It has an acrid,
poisonous milky juice and produces an eruption on the skin like that caused by Rhus

Vernix.

-ite². (e) In chem., a suffix used not only in the names of salts derived from sulphurous acid, as calcium sulphite, but also in the names of certain substances belonging to the class of sugars, as mannite and duclict, though these latter names are now systematically made to end in -ol (indicating chemical relation to the alcohols), as mannitol and duclicid; also used without technical precision in names of pharmaceutical and commercial products, as glycerite, dynamite, vulcanite, etc.

-itic. [L. -iticus, Gr. -ιτικός, -ιτ-ι-κό-ς.] A termination of adjectives of Latin or Greek origin or the proportion of adjectives in ite² as in

type, from nouns or adjectives in -ite², as in anthracitic, dendritic, hematitic, pyritic, etc., and Hamitic, Semitic, etc. It is sometimes used without an intermediate form in -ite. In granitic the termination is -ite¹ + -ic.

itin. An abbreviation of itinerant or itinerary.

tin. An abbreviation of itinerant or tinerary.

tinerate (ī-tin'e-rāt), a. Itinerant.

-itious². [Also, more prop., -icious; \ L. -ici-us,
-icius (later often written -itius): (a) -icius,
-ic-iu-s, from nouns, as ciner-icius, of the nature of ashes, gentil-icius, of the clansmen,
tribun-icius, of a tribune; (b)-icius, -ic-iu-s, from
perfect participles, as adven-icius, characterized by having come in from without, adscripticius. of the class of the adscripti, commentized by having come in from without, adscripticius, of the class of the adscripti, commenticius, conducticius, facticius, ficticius, suppositicius, etc., of an invented, hired, made, feigned, substituted, etc., nature.] A compound suffix in adjectives of Latin origin, as in adscriptitious, adventitious, commentitious, conductitious, factitious, fictitious, supposititious, etc., or formed on the Latin type, as abstractitious, adscriptious, excrementitious, etc. to (do), capable.'] Lord; master: an epithet

tives equivalent to the simple -ite² suffix, as Ishmaelitish, Israelitish, Moabitish.
itmo (it'mō), n. Same as *buyo.
itoubou (ō*tō-bō'), n. [AF. spelling of a Carib name.] One of the plants which yield white ipecacuanha, Calceolaria Calceolaria, of the violet family. See Ionidium.
-itous. [F. -iteux, < L. -it-ōsus, for -it-āt-ōsus.] A compound suffix, composed of elements answering to -ity and -ous, occurring in some adjectives, as calamitous, felicitous, gratuitous, iniquitous, necessitous, etc.
itrol (it'rol), n. [(c)itr(ate) + -ol.] The trade-

itrol (it'rol), n. [(c)itr(ate) + -ol.] The tradename of silver citrate, a substance used in medicine as an antiseptic.

itui (ē-tö'ē), n. [S. Amer.] An eel-like fish, of the family Sternopygidæ, found in the fresh waters of South America.

itzcuintli (ēts-kö-ēn'tli), n. [Nahuatl.] The indigenous Mexican dog.

interpolation mexican dog.
itzli (its'li), n. Same as iztli.
iulid (ī-ū'lid), n. and a. I. n. A member of
the family Iulidæ or Julidæ.
II. a. Of or belonging to the myriapodous
family Iulidæ or Julidæ.

Iulidæ, n. pl. [NL.] See *Julidæ.

Iulus, n. [NL.] See *Julus.

-ium. [L. -ium, -iu-m, orig. *-io-m, = Gr. -ov, -o-v, composed of suffix -io, -yo, + neuter ending -m.] 1. A termination of many English nouns and adjectives from the Latin and Greek. It is usually without significance (in English) as a suffix. Examples are medium, minium, etc. In some words of Greek origin it represents an original diminutive form, as in *cephalium, geranium, megatherium, etc.

rium, etc.
2. In chem., this suffix occurs especially in the names of the larger number of the metallic elements. The Latin names of some of the principal metals end in tum, as argentum, aurum, cuprum, ferrum, plumbum, etc. In forming names for the metals obtained from potash and soda, Davy, their discoverer, seems to have adopted the termination tum merely for the sake of euphony. This ending has commonly prevailed in later formations, as cadmium, iridium, lithium, etc.; but lanthanum, molybdenum, platinum, tantalum, etc., occur, and aluminum besides aluminium.

etc., occur, and aluminum besides aluminium.

ivain (i'va-in), n. [iva + -in².] A dark-yellow resinous bitter compound, C₂₄H₄₂O₃, obtained from iva, the leaves and stems of Achillea moschata, gathered before flowering.

Ivernian (i-ver'ni-an), a. [L. Iverna, Iuverna,
Hibernia, + -an. Cf. Hibernian.] Relating to
the supposed pre-Celtic population of Ireland.

ivigite (iv'ig-iti), n. [Ivig(ut) + -ite².] A
kind of potash mica occurring in seams in the kind of potash mica occurring in seams in the

ivorine (i'vō-in), a. [ivor-y + -inel.] Like ivory in consistence and color.

ivory¹, n.—Morse ivory, ivory taken from the tusks of the walrus. See morse¹, 1.

ivory-eater (i'vō-ri-ē'ter), n. Same as *irory-

rat.

ivory-nut, n.—Caroline Island ivory-nut, the seed of Calococcus Amicarum, a ninnate-leaved palm indigenous to the Caroline Islands. The fruit has a hard glossy brown pericarp teaselated with overlapping scales after the manner of that of Raphia and Calamus. The albumen of the seed is hard and ivory-like and is used for making buttons and other objects. Allied species occurring in the Pacific are Calococcus Salomonensis of the Solomon Islands, C. Vitiensis of Fiji, and C. Warburgi of the New Hebrides. See *aupple-nuts.

the New Hebrides. See *apple-nuts.

ivory-plant (i'vō-ri-plant), n. Any one of the three species of palms belonging to the genus Phytelephas, especially P. macrocarpa. See Phytelephas and ivory-nut.

ivory-plum (i'vō-ri-plum), n. 1. The creeping wintergreen or checkerberry, Gaultheria procumbens.—2. The creeping snowberry, Chiogenes hispidula.

ivory-rat (i'vō-ri-rat), n. An African squirrel. Xerus stangeri, named Sciurus eboricorus by Du Chaillu, and known as ivory-eater from its habit of gnawing elephant-tusks.

ivory-saw (i'vō-ri-sa), n. A thin saw mounted

ivory-saw (i'vō-ri-sā), n. A thin saw mounted in a steel frame, similar to a hack-saw, used

for cutting ivory.

vorywood (i'vō-ri-wud), n. The wood of an Australian tree, Siphonodon australe, of the staff-tree family. It is close-grained, firm, and easily worked, and is an excellent wood for the cabinet-maker.

yy¹, n. 2. In Australia, the cultivated varie-

ties of Pelargonium peltatum, commonly known as ivy-leaved geraniums, which are there trained over fences and walls, sometimes to a height of 20 or 30 feet, supplanting the English or common ivy in this use. See iry-leared *geranium.— Big-leaved ivy, the mountain-laurel or calico-bush, Kalmia latifolia.— Boston ivy. Same as Japanese *ivy.— Cape ivy, Senecio mikanioides. Called



German ivy in cultivation. See Senecio, 1.—Climbing ivy, the poison-ivy, Rhue radicans.—English ivy, the usual name in America of the common ivy, Hedera Helix.—Pive-fingered ivy, five-leaved ivy, the Virginia creeper, Parthenocissus quinquefolia.—Groundivy, See ground-ivy.—Ivy canker. See *can'er.—Japanese ivy, Parthenocissus tricuspidata, a very ornamental vine which clings to walls and climbs freely over houses, churches, etc. Though a native of Japan, it thrives in most parts of Europe and America. In the United States it is often called Boston ivy.—Laurel-ivy, Same as bigleaved *ivy.—Mexican ivy, Senechorican seandens, a tender, showy, climbing plant, toten cultivated in gradens. See Cobea.—Native ivy, in Australia: (a) The Macquarie Harbor grape, Calacinum adpressum. (b) The Macquarie Harbor grape, Calacinum adpressum. (c) The Macquarie Harbor grape, Calacinum adpressum. (b) The Macquarie Harbor grape, Calacinum adpressum. (c) The Macquarie Harbor grape, Calacinum adpressum. (c) The Macquarie Harbor grape, Calacinum adpressum. (b) The Macquarie Harbor grape, Calacinum adpressum. (c) The Macquarie Harbor grape, Calacinum adpressum. (d) The Macquarie Harbor grape, Calacinum ad ivyi (i'vi), v. t.; pret. and pp. ivied, ppr. ivying. [ivyi, n.] To cover with ivy.

Earth with her twining memories ivies o'er
Their holy sepulchres; the chainless sea,
In tempests or wide calms, repeats their thoughts.
Lowell, Prometheus, iv.

Hepatica Hepatica.

ivy-geranium (i'vi-jē-rā'ni-um), n. Same as ivy-leaved *geranium.

ivy-leaved (i'vi-lēvd), a. Having leaves which resemble those of the ivy.—Ivy-leaved chickweed. Same as ivy *chickweed.

ivy-weed (i'vi-wēd), n. The Kenilworth ivy, Cymbalaria Cymbalaria.

ivy-wood (i'vi-wūd), n. The mountain-laurel, Kalmia latifolia. [South Carolina.]

I.W. An abbreviation of Isle of Wight.

I.W. G. An abbreviation of Indian wire-gage.

. X. An Christus. An abbreviation of the Latin Icsus

Ixionian (ik-si-ō'ni-an), a. [Ixion+-ian.]
Relating to Ixion, in Greek legend, a king of
Thessaly whose punishment in the lower

regions was to be whirled forever on a revolving wheel.

ixodid (ik'sō-did), n. and a. I. n. A member of the family *Ixodidæ*.

II. a. Resembling or belonging to the family

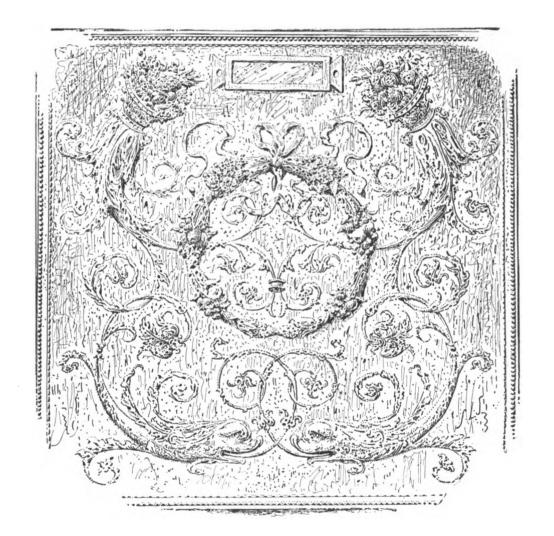
Ixodidæ.

Ixolidæ.

ixtli, n. See istle, *istle, and *izote.

izote (ē-thō'tā), n. [Mex. Sp. izote, < Nahuatl iczotl, or icxoll, a generic name for yuccas.]

In Mexico, Guatemala, and Honduras, a name of several species of Yucca and their allies, especially Y. Treculeana, which yields a fiber of commercial importance called ixtli de Coahuila; Y. Schottii Jaliscensis, the source of the fiber called ixtli de Jalisco; Samuela Carnerosana, yielding the ixtli de Carneros, and Y. baccata, which bears edible fruit often called datiles. In Guatemala and Honduras the name is applied to Y. elephantipes, a species cultivated in gardens and planted in hedges, which in Costa Rica is called itabo.







3. An abbreviation (a) [l. c.] of the Latin judex, judge; (b) of Jupiter; (c) of Justice.—White J, an American nymphalid butterily, Eugonia jabum: so called from a white mark resembling the letter J on the under side of the hind wings. It occurs in Canada and the northern United States east of the Rocky Mountains, and its larvæ feed on the birch and willow. It is also known as the Compton tortoise.



J. A. An abbreviation of judge-advocate. jab. n. 2. Naut., a net used in catching the fry

Of IBBI.

3abiru, n. This name has also been applied to two large, stork-like birds of the Old World, somewhat smaller than the South American jabiru and having the head and neck feathered instead of bare. The African jabiru, Ephippiorhynchus senegalensis, is glossy black above, white below; the primaries are also white. The Australian jabiru, Xenorhynchus australis, is of a greenish black above.

above.

jabon (hä-bōn'), n. [Cuban use of Sp. jabon,
soap.] A serranoid fish, Rypticus saponaceus,
found from Florida to Brazil.
jaboncillo (hä-bōn-thēl'yō), n. [Sp. dim. of

jabonine (jab'ō-nin), n. [jabo(randi) + -n + -ine².] A colorless oily basic compound, $C_9H_{14}N_2$, prepared by the action of barium hydroxid on pilocarpine or pilocarpidine. It boils at 235-240° C.

boils at 243-240 C.

jaborandine (jab-ō-ran'din), n. [jaborandi +
-inel.] Same as *jaboridine.
jaboric (ja-bor'ik), a. [jabor(andi) + -ic.]

Derived from jaborandi.—Jaboric acid, a solid
compound, C₁₉H₂₅O₅N₃, formed by heating pilocarpine,
of which it is a condensation-product.

jaboridine (ja-bor'i-din), n. [jabor(andi) + -id + -ine².] An amorphous, poisonous, mydriatic alkaloid, C₃₂H₃₂O₄N₄, one of the three found in jaborandi (*Pilocarpus*). Physiological in the control of the co driatic alkaloid, $C_{32}H_{32}O_4N_4$, one of the three found in jaborandi (*Pilocarpus*). Physiologically it is antagonistic to pilocarpine. Also gaboridine.

[abot n. 2. In entom the grop of any herbive content of the content of

jabot, n. 2. In entom., the crop of any herbivorous orthopterous insect.

assumes the position and duties of a jackaroo before taking up a station of his own. See turning by the inertia of the wheel.

3 cack-frame, n. 2. In cotton-manuf., a roving-frame used for fine yarns.—3. A frame for holding a jack or winch.

3 cack-in-a-basket (jak'in-a-basket) pack-in-a-basket or beacon placed on top of a bole town a basket or beacon placed on top of a bole town a basket or beacon placed or other danger. Sometimes a two or a barrel is used instead of a basket.

4 cack-frame, n. 2. In cotton-manuf., a roving-frame used for fine yarns.—3. A frame for holding a j jabul (hä-böl'), n. [Sp. spelling for *habul, *habol, < Bisaya habol, *habul, a garment (see def.), a blanket, sheet (habol-habol, a membrane): cf. haból, to weave, haból, a woven

iabuticaha (iabuti, tortoise, +caba, fat.] Any one of three species of myrtaceous trees belonging to the genus Myrciaria, M. Jaboticaba; M. trunciflora and M. cauliflora, yielding edible berries.

jacal (hā - kāl'), n. [Also jacale; < Nahuatl xacalli, a straw hut, < xalli, sand, + calli, house.] A native Mexican house or hut of which the walls are constructed of rows of thin vertical poles, covered and chinked with mud.
Also applied to this method of building.

On the western margin of the ruin, and nowhere else within it, there are traces of another kind of construction which was not found elsewhere within the canyon. This method is known to the Mexicans as "jacal," and much used by them. It consists of a row of sticks or thin poles

spince chain which moves logs from one point to another, usually from the mill-pond into the sawmill; a bull-chain.

jacket, n. 8. The loose wrapper of paper which protects the binding of a book.—9. The

set vertically in the ground and heavily plastered with mud. At present not one of these walls remains to a height of 6 inches above the ground, but the lines of poles broken off at the ground level are still visible.

Rep. Bur. Amer. Ethnol., 1894-95, p. 108.

jacaranda, n. 2. [l.c.: Pg. pron. zhäk-ä-rändä'.] A name of certain large Brazilian trees which yield the weenweel of

which yield the rosewood of commerce; also, the wood itself. The trees so called include species of the bignoniaceous genus Jacaranda, Dalbergia nigra, and several species of the genus Machærium of the bean family, especially M. scleroxylon, M. firmum, and M. legale. The last two species are usually distinguished as jacaranda roxa (red jacaranda) and jacaranda preto (black jacaranda). See rosewood, 1, Jacaranda, 1, and Machærium, 1. jack1, n. 9. (f) Carangus bartholomæi, a fish found in the West Indies and northward to North Carolina.

1, Jack1, n. 9. (f) Carangus bartholomæi, a fish found in the West Indies and northward to North Carolina.

11. (f) (2) Intelephony, a device for making switchboard connections. It consists of an insulated ring, to which one or more springs are attached, which is mounted upon the switchboard frame. Connections are made by inserting in the ring a conical metal plug to which the conductors to be brought into circuit are attached. (m) A device for transmitting motion from a horse-power or treadmill to a machine. (n) Any device consisting essentially of a roller or barrel used as a winch, crab, or holsting or hauling-derrick. (o) A machine in which skins are polished under pressure. (p) A device for winding the warp on the warping-beam of a loom.

22. Same as black-jack, 3.—Answering jack, a jack used by operators in a telephone exchange in answering the calls of subscribers.—Chisel-mouth jack, Same as *kchielmouth and hardmouth.—Coal-breaking jack. See jack, 11 (i) (i).—Horse-ey jack, a common name applied to certain fishes of the family Carangidæ.—Jack bean. See *keanl.—Jack Frost, frosty weather; freezing cold personified.—Jack's alive (naut.), an old-fashioned seaport dance.—Jack strippers, in euchre, two knaves, usually of the same color, so trimmed that they can be withdrawn from the pack (for jthe purpose of cheating) and placed on the top at will.—Multiple jacks, jacks connected in multiple to each line of a telephone exchange and so placed along the switchboard as to enable any operator to reach any line.—Natural jack, in poker, a jack-pot which arises from some circumstance of the play, such as that of no one coming in against the age, as distinguished from jack-pots which are made by the circulation of a buck.—Pendulum jack, in leather-manuf., a machine with an arm which swings like a pendulum. C. T. Davis, Leather, p. 271.—Pneumatic jack, a device consisting essentially of a cylinder closed at one end, and a plunger which fits it, the plunger being forced out by pneumatic pressure and thereby exerting a

Amer. Tanning, p. 118.

jackanapes, n.— Jackanapes on horseback, the marigold, Calendula officinalis.

jackaroo (jak-a-rō'), v. i. [jackaroo, n.] To learn one's business by bush-farming: said of an inexperienced greenhorn in Australia who assumes the position and duties of a jackaroo before taking up a station of his own. See

gearing of motor-cars or self-propelling fireengines.

jack-boy (jak'boi), n. A boy serving in a low

capacity: often a contemptuous epithet.

jack-card (jak'kärd), n. A hand-instrument
for carding cotton or wool; a hand-card. C.
Vickerman, Woollen Spinning, p. 144.

jack-chain, n. 2. In lumbering, an endless spiked chain which moves logs from one point

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sheet of cardboard or thick paper which covers the impression surface of a printing-cylinder.—10. The hide or other natural covering of various animals, as sheep, seals, fish, etc.—11. The skin of a potato.—To obtain one's jacket, to secure, as an officer, appointment to the horse artillery. [Eng.]

After serving with a field battery for a few years, Lieut. T. obtained his "jacket," and was the beau ideal of a horse-artillery officer. Geog. Jour. (R. G. S.), XI. 556.

Magellan jacket (naut.), a heavy, warm watcheat provided with a hood, and used by officers and men in cold latitudes. It was designed by Captain James Cook of the British navy.—Mask and smoke jacket, a device similar to a diving helmet and jacket, but much lighter, worn over the head and upper part of the body to enable the wearer to enter a place filled with smoke or poisonous gasea.—Ragged jacket, a young harp-seal during his first molt. Goode.—Esyre's jacket, a sort of corset made of plaster of Paris, used to support the spine in cases of Potts' disease.—Yellow jacket, a jacket (makwa) of imperial yellow brocaded silk bestowed as a distinction by the Emperor of China on a high official, usually in acknowledgement of some important service rendered. See mattro.

For these exploits he [Li Hung Chang] was made gov-

See marica.

For these exploits he [Li Hung Chang] was made governor of Kiangsu, was decorated with a Yellow Jacket, and was created an earl.

Encyc. Brit., XXX. 262. jacket-casing (jak'et-kā'sing), n. In engines, the jacket; the cover which incloses the steam-space about the cylinder of a steam-engine or the water-space about the cylinder of

a gas-engine.

jacketing, n. II. a. Surrounding or protecting as a jacket: in phys., said of a layer of insulating material surrounding a calorimeter or other chamber to prevent the inflow or egress

of heat.

Beyond the point at which the jacketing water is taken off.

M. W. Travers, Exper. Study of Gases, p. 315.

jacketing-machine (jak'et-ing-ma-shēn'), n.

In candy-making, a machine consisting of 'wo hoppers, placed side by side, each containing liquid checolate or other syrup or candy material and delivering its contents between rolls and through dies in slander streams, to a rial and delivering its contents between rolls and through dies, in slender streams, to a paper-covered traveling apron. One stream is in advance of the other; the second jackets or envelops the first and forms a double stick which is drawn out by the movement of the apron into a long thread which is cut into the required lengths by an automatic knife. jacket-pipe (jak'et-pip), n. The pipe which conveys steam or water to or from the jacket of an engine

of an engine.

jacket-pump (jak'et-pump), n. A pump used to circulate the water in the water-jacket of an air-compressor or a gas-engine.

Jackfield ware. See *ware2. jack-flange (jak'flanj), n. In pianoforte-mak-

particularly to pull the spindle of a combina-tion lock from the door.—10. A device for holding the tool on a planing-machine in posi-tion while cutting.—11. In Australia, same as hairtrigger-flower. Also called trigger-plant. See hairtrigger-flower and Stylidium.—Jack-in-a-box motion, an epicyclic train of wheels, an essential feature in the mechanism of a cotton-roving frame for regulating the relative speed of the bobbin and flier. Also called differential, equating, and sun-and-planet motion.

roving (in spinning fine cotton yarn on the mule) near the end of the outward traverse of the spindle-carriage. Nasmith, Cotton Spinning, p. 253.

jacking-motion (jak'ing-mo"shon), n. An operation (on a cotton-spinning mule) for putting supplementary drawing and twisting into the roving toward the end of the outward traverse of the spindle-carriage. Nasmith,

Cotton Spinning, p. 319.
jack-in-trousers (jak'in-trou'zerz), n.

jack-in-trousers (jak'in-trou'zerz), n. The wild red columbine, Aquilegia Canadensis. jack-ladder, n. 2. Same as *gangway, 4. jack-light (jak'līt), v. i. To hunt game or to fish with a jack-light: same as jack', 2. jack-lighting (jak'lī-ting), n. The method or practice of hunting or fishing with a jack-light jack-nut (jak'nut). n. One of the nut-like separable portions of the jackfruit. See jack-tree. jack-pine (jak'pīn), n. The gray pine, Pinus divarients.

jack-pot, n. 2. In lumbering, an unskilful piece of work. [Slang.]—3. A pile of logs.

—To open a jack-pot, in poker, to announce that the necessary qualification, jacks or better, is held.

jack-press (jak pres), n. A baling-press for

baling in which the pressure is exerted by

means of a jack-screw or lever.

jack-pulley (jak'pul'i), n. 1. The belt-pulley
on a roasting-jack by which it is made to
turn.—2. The principal pulley on a jack-shaft. See *jack-shaft.

jack-rod (jak'rod), n. In ship-building, a long iron rod, supported at frequent intervals by eye-bolts on the surface of structural parts, to which is secured by lashings the edges of awnings, weather-cloths, canvas covers, etc. ack-rope (jak'rop), n. The wire rope by

jack-rope (jak'rop), n. The wire rope by which the foot of a fore-and-aft sail is secured to the boom. It runs fore and aft through the eyes screwed in on top of the boom, and through small thimbles sewed on the bolt-rope, on the foot of the sail, at

jack-shaft (jak'shaft), n. The first shaft from the prime mover from which the main or lineshaft is driven. It is usually of a short length. and is connected to the turbine or engine by belting, gearing, or by a rope-drive. Elect.

World and Engin., June 11, 1904, p. 149.

jack-shafting (jak'shaf'ting), n. Same as

jack-shark (jak'shärk), n. A sailors' term for a shark.

jack-shay, jack-shea (jak'shā), n. In Australia, a tin quart-pot.

Hobbles and Jack Shays hang from the saddle dees.... A tin quart-pot, used for boiling water for tea, and contrived so as to hold within it a tin pint-pot.

A. C. Grant, Bush Life in Queensland, I. 209.

jackson (jak'son), v. t. To bother; annoy. [Whalers' slang.]

Jackson beds. See ★bed¹.

Jackson-vine (jak'son-vin), n. The matri-

mony-vine, Lycium vülgare.

jack-spaniard, n. 2. In the British West

That long black wasp, commonly called a Jack Span-trd, builds pensile paper nests under every roof and hed. Kingsley, At Last, v.

jack-spring (jak'spring), n. In pianoforte-making, a spring that pulls the jack back or down after it is released. See cut under

jack-strip (jak'strip), n. A strip of insulating material which forms the support of a group of jacks upon a telephone switchboard.

jack-the-painter (jak the-pan ter), n. In Australia, a very acrid green tea that leaves a stain on or in the mouth. E. E. Morris, Austral English.

jack-whip (jak'hwip), n. In pianoforte-mak-ing. Same as *whip, 12. See cut under pianoforte.

jacky, n. 2. A familiar name for an enlisted man in the navy.
jack-yard (jak'yärd), n.
A light yard used to extend the head of a squarecut gaff-topsail: common cut gaff-topsail: common on English yachts. It differs from a sprit in that the latter is kept parallel with the topmast, while the jack-yard is carried a-cockbill—the highest end raking toward the stern when the yacht is on the wind. Also known as a gaff-topsail.aard.

topsail-yard. jacky-breezer (jak'ibrē zer). n. A dragon-fly.
jacky-winter (jak'iwin'ter), n. A small flycatcher, Micræca



fascicans, supposedly named because it is jag2, n. abundant and sings in the winter. [New South Wales.]

jacob, n. 2. A jacobus, a gold coin of James I. of England.—3. (a)†. A housebreaker who carried a ladder. (b) A ladder. Grose, Dict. Vulg. Tongue.—4. A half-witted person. Vulg. Tongue.—4. A num.

Vaux, Flash Dict.

Jacobian², n. 2. Short for Jacobian curve.

—Jacobian of a net of plane curves. Same as *Hessian of a net of plane curves.

sam of a net of plane curve.

Jacobi's unit of current, unit of resistance. jagger 1, n. Jacobitish (jak'ō-bī-tish), a. [Jacobite + -ish.]

Same as Jacobite.

Same as Jacobite.

Jacob's-ladder, n. 2. Also, any plant of the genus Polemonium, especially P. cærulcum and P. replans.

(b) The yellow toad-flax or butter-and-eggs, Linaria Linaria. (c) The climbing bittersweet, Celastrus scandens.—American Jacob's-ladder. (a) Polemonium Van Bruntise, of northeastern North America, long confounded with P. cærulcum. (b) The carrion-flower, Smilax herbacea.

Jacobite + -ish.]

Jagging (jag'ing), n. The use of a jag-bolt to secure or fasten something; the insertion of a jagging or serrated bar, bolt, or shaft in a casting, by casting the metal around it. Jagging-board (jag'ing-board), n. An inclined board or box for washing ore-slimes.

Jagging (jag'ing), n. The use of a jag-bolt to secure or fasten something; the insertion of a jagging (jag'ing), n. The use of a jag-bolt to secure or fasten something; the insertion of a jagging do restrated bar, bolt, or shaft in a casting, by casting the metal around it.

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Jagging (jag'ing), n. The use of a jagging (jag'ing), n. The use of a jagging (jag'ing), n. The use of a jagging ing).

Jacobson's canal, cartilage. See *canal¹, jahad (jä-häd'), n. See jihad. *cartilage. Jahveism, n. See *Jahvisn.

Jacob's-shell (jā'kobz-shel'), n. The scallop-shell worn by pilgrims who had visited the shrine of St. James the Greater, whose em-

Jacqueminot (zhäk-mi-nō'), n. [Named General Jacqueminot (after J. F. Jacqueminot, 1787-1865), a French general.] The name (General Jacqueminot) of a deep-red variety of the rose. Often called jack-rose or jack.

Jacques cell. See *cell.

Jacquet's recording chronometer. See *chronometer. See *chronometer.

jactant (jak'tant), a. [L. jactans (-ant-), ppr. of jactare, boast: see jactation.] Boastful; given to bragging.

jactus (jak'tus), n. [L., a throwing, \(\) jaceres, throw: see jet!.] In law, same as jettison (which see).—Jactus lapilli [Latin, 'throwing of a stone'], in civil law, a method of preventing the acquiring of title by prescription. The real owner of the land upon which another was building went upon the building and in the presence of witnesses brought for the purpose, threw down a stone upon the land, thus challenging the builder's right.

jaculator-fish (jak'ū-lā-tor-fish'), n. A fish, jaculator-fish (jak'ū-lā-tor-fish'), n. A fish, jaculator-fish (jak'ū-lā-tor-fish'), n. A fish, jam', v. t. 4. To push (a bill or measure)

jaculator-fish (jak'ū-lā-tor-fish'), n. A fish, belonging to the family Toxotidæ, which has been credited with the faculty of shooting drops of water at insects on low-hanging branches and thus securing them. This si has not been confirmed. See archer-fish. This story

jaculiferous (jak'ū-lif'e-rus), a. [L. jaculum, dart, + ferre, bear, + -ous.] Bearing prickles or spine-like darts. Syd. Soc. Lex.

Indies and Guiana, a large wasp of the genus jacupirangite (jak'ū-pī-ran'jīt), n. [JacupiPolistes which suspends its nests from the
ronga, São Paulo, Brazil, + -ite².] In petrog.,
roofs of houses or the branches of trees.

That long black wasp, commonly called a Jack Spanwhat variable composition associated with what variable composition associated with nephelite syenite. One variety consists of titaniferous augite, with magnetite, ilmenite, nephelite, and perovskite. Another variety contains a subordinate amount of augite: others are nearly pure ilmenite with scattered crystals of augite. Derby, 1891.

jade¹, v. t. 4†. To make a fool of; scorn.

I do not now foole my selfe, to let imagination iade see. Shak., T. N., ii. 5. 178.

jadeitite (jā'dīt-īt), n. [jadeite + -ite².] In petrog., a rock composed of the mineral jadeite. Also called jadeite-pyroxenite.

Jadelot's furrows. See *furrow.
jadoo (jā'dö), n. [Hind. Pers. jādū, Avestan yātu.] In India, magic; conjurers' tricks; an exhibition of apparently supernatural performances. formances.

Suddhoo... said that Janoo had told him that there was an order of the Sirkar against magic... I said that, if there was any jadoo afoot, I had not the least objection to giving it my countenance and sanction, and to seeing that it was clean jadoo—white magic, as distinguished from the unclean jadoo which kills folk.

Kipling, In the House of Suddhoo, in Plain Tales from the Hills, p. 135.

Jam.

Jam.

| Jam.**
| Jam.*
| Jam.**

jadoo-fiber (jä'dö-fī"ber), n. A prepared cocoanut-fiber used in greenhouses for potting

'adoube (zhä-döb'). [F., 'I adjust': see adub.] An expression in chess by which a player notifies his adversary that he is merely j'adoube (zhä-döb'). adjusting one or more pieces on the board without intending to play either. Any form of stating the fact may be used.

jady (jā'di), a. [jade¹ + -y¹.] Vic tricky; ill-conditioned: said of a horse. Vicious;

6. A rustic: a farm-hand: as. a plow jag. [Dialect, Eng.]

The North Lincolnshire "plough-jags" have gone from house to house this season [1901] fantastically attired . . . for the Plough Monday mummeries.

N. and Q., 9th ser., V.II. 322.

J. A. G. An abbreviation of Judge Advocate General.

ag-bolt (jag'bolt), v. t. To fasten by the use of a serrated or jagged bolt, as in *jagging

(which see).

aggar¹. n. 4. The rough projection raised by nicking a piece of metal with a chisel; a jag.

—Jagger wagon. See *wagon.

jagging (jag'ing), n. The use of a jag-bolt to

Jahveism, n. See *Jahvism.

Jahvism (jä'vizm), n. [Jahve, Yahweh (see Jehovah), + -ism.] The religion of the ancient Hebrews, as based on the worship of Jahve

Jacob's ulcer. Same as rodent *ulcer.

Jacquard. An abbreviation of Jacquard loom jaiba (hä'ē-bä), n. [W. Ind. Sp., from the or Jacquard attachment (which see, under loom).

The very sabsed on the worsmip of Janve in the w

Jainist (ji'nist), n. and a. [Jain + -ist.] Same

The name Jakutian (ya-kö'ti-an), n. In geol., a stage of d variety of the Lower Pelagic Triassic series in India preceded by the Brahmanian and followed by the Hydaspian stage.

A fish, jam1, v. t. 4. To push (a bill or measure)

jam¹, v. t. 4. To push (a bill or measure) through the regular routine of a legislative body by the brute force of a majority controlled by 'the machine,' without proper consideration or discussion. [Political slang.] N. Y. Com. Advertiser, April 11, 1901. jam¹, n.—Genter jam, in lumbering, a jam formed on an obstacle in the middle of a stream, but which does not reach either shore.—Stream jam. Same as center *jam.—To shoot a jam, in lumbering, to loosen a log-jam with dynamite.—Wing jam, in lumbering, a jam which is formed against an obstacle in the stream and slants upstream until the upper end rests solidly against one shore, with an open channel for the passage of logs on the opposite side.

jam², n. 2. An extra pool in the game of napoleon.

poleon.

jam² (jam), v.; pret. and pp. jammed, ppr. jamming. [jam², n.] I. trans. To smear or spread with jam: as, a slice of bread thickly

II. intrans. To become jam; thicken to the consistency of jam. [Colloq.]

And I did so want that jam to jam properly.

R. Kipling, Fatima, in Indian Tales, p. 787. jam⁴ (jäm), n. [Sindhi jām.] The title of certain native chiefs in northwestern India.

K. S. Ranjitsinhji, the cricketer, had been adopted by the late Jam, but the adoption was set aside, with British sanction, in favour of a son by a Mahommedan mother.

Encyc. Brit., XXXI. 112.

the Hindu jama, a long muslin gown worn in India by both Mohammedans and Hindus.

Jam. An abbreviation of Jamaica.

jama (jä'mä), n. [Hind. Pers. jämah, jäma. Cf. *jamö and pajamas.] In India, a gown, especially one that is long and very full, folded into meny plaits. into many plaits.

Jamaica cucumber, discipline, wood. See *cucumber, etc.
jamaisine (ja-mā'sin), n. Same as berberine.
jaman (jä'män), n. [Hindi.] The fruit of the jambolana, Syzygium Jambolana.

jambava (jam-bä'vä), n. [Hind. *jambāva, <jambava, jambu.] In India, a liquor prepared from the fruit of the jambu by fermentation.

It is stimulating and tonic in its action and is

a favorite beverage with the natives. Buck, Med. Handbook, V. 244.

jamb-lining (jam'li'ning), n. A piece of light woodwork set up against a door-post or the like, one side of it forming the jamb.

jamborine (jam'bō-rin). n. [jambo(lana) + -r-+-ine².] A white crystalline substance of uncertain composition, said to be contained in the seeds of jambolana (Syzygium Jambolana). jambos (jam'bōs), n. [Prop. pl. of jambo, a form of jambu. Hence, NL. Jambosa.] The rose-apple, Caryophyllus Jambos, a tree of East Indian origin, now widely cultivated throughout the warmer regions of the globe for the sake of its fragrant fruit, and also grown as a greenhouse subject. In Mexico and Central America it is called pomarosa. See rose-apple. America it is called pomarosa. See rose-apple. Jambosa (jam-bō'sā), n. [NL.(A.P. de Candolle, 1828, adopted from Rumphius), < jambos, a European form, properly pl. of jambo, jambu, the rose-apple.] An untenable name for Caryophyllus, a genus of plants of the family Myrtaceæ. The Malay apple, Caryophyllus Malacensis, the clove. Caromaticus, and the rose-apple, C. Jambos, are well known species.

jambosade (jam'bō-zād), n. [jambos, native name.] The rose-apple, Caryophyllus Jambos. Also called jambu and jamrosade.

jambosine (jam'oʻ\bandon, n. [jambosa + -ine².] A colorless, tasteless, crystalline alkaloid, C_{10} H₁₅O₃N, contained in the bark of the root of Caryophyllus Jambos. It is without physiolog-

jamb-stone (jam'ston), n. A block or slab of stone set upright at the side of a doorway or window, so that one of its faces forms the jamb.

James (jāmz), n. A sovereign; the sum of twenty shillings. [Slang.]—James Royal (or Ryall), a silver coin of the reign of James VI. of Scotland, having the figure of a sword on one side, and vulgarly called the sword-dollar. Jameson, Dict. Scot. Language.

James-Lange theory. See *theory.

Jamin's tube. See *tube.
jammer (jam'er), n. In logging, an improved form of gin, mounted on a movable framework and used to load logs on sleds and cars by horse-power.

jamon (hä-mön'), n. [Sp. jamón, leg, thigh, ham: see gammon².] 1. A ham; bacon.—2.

A guitar. [Southwestern U. S.]

Jamon (ja-po'ni-an), n. [N.L. Japonicus, < Japonian' (ja-po'ni-h), n. [N.L. Japonicus, < Japonian' (ja-po'ni-h), n. [N.L. Japonicus, < Japonian' (ja-po'ni-h), n. [N.L. Japonicus, < Japonian' (ja-pon'ik), n. [N.L. Japonicus, < Japonian' (ja-p

janizary, n. 2. A common name of Clepticus



Janizary (Clepticus parra). (From Bulletin 47, U. S. Nat. Museum.)

parræ, a labroid fish of the West Indian fauna. — Janizary pedal. See *pedal.

Jankó keyboard. See *keyboard.

Jansonist, n. H. a. 1. Of or pertaining to the Jansenists.—2. Noting a style in decoration, especially in bookbinding, characterized by extreme plainness: especially adapted to levant morocco and other materials which pre-

sent beautiful surfaces.

ern Bookbinding, p. 81.

Janus, n. 4. A double monster with the two heads looking in opposite directions. Also called janiceps.—Janus blue, brown, colors. An sblue, etc.—Janus green. Same as diazin *green. Janus orange, red, yellow. See *orange1, etc.

Jap. An abbreviation (b) of Japan.

A pale-yellow amorphous alkaloid, C₂₆H₄₁O₁₀-N(t), prepared by heating japaconitine with alcoholic potassium hydroxid.

japaconitine (jap-a-kon'i-tin), n. [Jap(anese) + aconite + -ine².] A colorless, toxic, crystal-line alkaloid, C₆₆H₈₈O₂₁N₂ or more probably C₃₄H₄₉O₁₁N, found in Japanese aconite (kuzauzu) from Aconitum Japonicum. It melts at jarganee (jär-gä-nē'), n. [Origin not ascertained.] A sea-shore worm used for fish-bait. 184-186° C. and closely resembles aconitin in many respects.

Japan cedar, moth. See *cedar, *moth1.
japan, v. t. 2. To invest with the black coat

Japanism, n. 2. A Japanese idiom, custom, or peculiarity.—3. Fondness for Japanese

things or customs.

Japanize (ja-pan'iz), v. t.; pret. and pp. Japanized, ppr. Japanizing. [Japan + -ize.] To make conformable to Japanese ideas or customs; render Japanese.

Japanologist (jap-a-nol'ō-jist), n. [Japanology.

Japanologist (jap-a-nol'ō-jist), n. [Japan-tist] Same as chickling

toms; render Japanese.

Japanologist (jap-a-nol'ō-jist), n. [Jogy + -ist.] A student of Japanology.

Japanology (jap-a-nol'ō-ji), n. [Jogogy.] The scientific study of the parameters of the property of the parameters. -o-logy.] The scientific study of the people of Japan, their language, literature, history, customs, art, etc.

by horse-power.

jamon (hä-mön'), n. [Sp. jamón, leg, thigh, ham: see gammon².] 1. A ham; bacon.—2.
A guitar. [Southwestern U. S.]

jamoin (jam'pin), n. A pin driven into a hole which is drilled or cut in a joint, to prevent one port shifting on the other.

jar', v. t. 4. To drill by impact or percussion; use an impact drill or drill-jar upon.—5. To shock or surprise (one) with some sudden or extraordinary remark, statement, or fact. [Humorous.]

jar¹ n. 6. A tool, used in drilling wells in rock, consisting of two long and flat links capable of sliding the one within the other, in order that the drill-bit may be loosened on the up stroke in case it has become jammed in the lock.

lock.

jar3, n.—Graduated jar, in chem., a glass jar, usually a tall cylinder of moderate diameter, with its internal capacity and the subdivisions thereof etched upon the outside, used in measuring off definite volumes of a liquid.—Nessler jar, in chem., a cylindrical jar of light glass with a flat bottom, usually about nine inches high and one inch in diameter, used in the determination of ammonia by means of the Nessler reagent, and in general for the comparison of two or more liquids as to the depth of color presented by them in consequence of the presence of various quantities of the same coloring-substance.—Species jar, a glass jar of cylindrical shape and with a wide mouth, usually made of rather light glass and furnished with a tin-plate cap or cover, used by druggists and apothecaries to hold solid materials, chiefly dried herbs, roots, etc.

W. Matthews, Mod-jararaca (jä-rä-rä'kä), n. [Tupi jararaca, also jiraraca, geraraca, a large serpent.] A vennonster with the two omous snake, Trimesurus jararaca, which inhabits a large portion of Bruzil south of the Amazon. It reaches a length of six feet and is of a gray color with darker cross-bands.

jarave (hä-rä'vä), n. [Tarascan.] A national dance of the Tarascan Indians in Mexico. C. Lumholtz, Unknown Mexico, II. 382.

jardinière, n. S. A mixture of vegetables stewed in their own sauce; also, various vegetables used together as a garnish.—A la jardinière, served with a few vegetables, as peas, two or three slices of carrot, etc.: said of a roast.

jargonaphasia (jär'gon-a-fā'ziā), n. [NL., < E. jargon¹ + NL. aphasia.] A defect of speech in which several words are run into one so as to be unintelligible. Buck, Med. Handbook, I. 414.

japan, v. t. 2. To invest with the black coat of a clergyman; ordain. [Slang.]

My friend's son had just been ordained Deacon, or, in the language of the day, 'japanned.'

Sporting Mag., XVIII. 288. N. E. D.

Japanese banana, belladonna, oak-moth. See *banana, etc.—Japanese sardine-oll. See *oil.

japanesquery (jap-a-nes'ke-ri), n. [Japan-jargonig (jär'gon-ing), n. A confused chateraque + -ry.] Japanese style; the Japanese sarding or gabling; a twittering of birds.

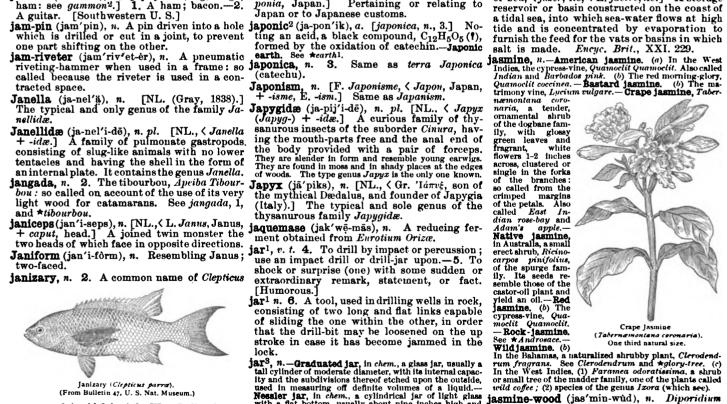
spirit or genius.

jargonium (jär-gö'ni-um), n. [NL.: see jargon².] A supposed new chemical element announced as associated with zirconium in the mineral zircon or jargon. Its existence has not been confirmed.

people of jarosse (zha-ros'), n. [F.] Same as chickling story, cus-vetch (which see, under vetch).

jaroul, n. See jarool. jarul, n. See jarool.

jarul, n. See jarool.
jarvey (jär'vi), v. i.; pret. and pp. jarvied, ppr. jarveying. [jarvey, n.] To drive along, like a hackney-coachman or jarvey.
jarvil (jär'vil), n. Same as chervil.
jas (zhäs), n. [F. jas, in sense defined, also the stock of an anchor, < Pr. jas, jatz, lit. a layer or bed, < jazer, lie, < L. jacere, lie.] A storage reservoir or basin constructed on the coast of a tidal sea, into which sea-water flows at high tida and is concentrated by experience.</p>



Mauritianum, a tree of the family Ochnacce, occurring on the Island of Mauritius; or its wood. So called from the fragrance of its showy white flowers.

jasmone (jas'mōn), n. [jasm(ine) + -one.] A ketone, $C_{11}H_{16}O$, found in jasmine-oil. It boils at 258° C. and has, when diluted, an odor like that of jasmine.

jasper (jas'per), v. t. [jasper, n.] Same as

jasperoid (jas'per-oid), a. [jasper + -oid.] Same as jaspoid.

The Townsend ridges are described as a long narrow jaw-clutch (jâ'kluch), n. A device for joining the of outcropping jasperoid rocks.

Geog. Jour. (R. G. S.), XV. 648.

jaspilite (jas'pi-līt), n. [Gr. ἰσσις, jasper, + λίθος, stone.] In petrog., originally an acid igneous rock more silicious than rhyolite; as now used, in the Lake Superior region, a r consisting of bands of red chert and hematite. jasp-opal (jasp'ō"pal), n. Same as jasper-opal. jassid (jas'id), n. and a. I. n. An insect of the homopterous family Jassidæ.

II. a. Of or belonging to the Jassidæ.

jassoid (jas'oid), a. and n. I. a. Of or belonging to the homopterous superfamily Jassoidea.
 II. n. One of the Jassoidea.

Jassoidea (ja-soi'dē-ā), n. pl. [NL., < Jassus + -oidea.] The homopterous family Jassidæ + -oidea.] The homopterous family Jassidæ considered as a superfamily.

jatahy (zhä-tä-hē'), n. [Brazilian.] Same as

jati (jä'tē), n. [Malayjāti, in põhon jāti, teak-tree, and kāyu jāti, teak-wood.] The East Indian teak, Tectona grandis. See teak and Tectona

iatoba (zhä-tō-bä'), n. [Brazilian.] Any one of several Brazilian species of large leguminous trees belonging to the genus Hymenæa, especially H. stilbocarpa. They yield resins similar to that obtained from the more northern H. Courbaril. See Hymenæa. Called also jatahy.

jatropha-oil (jat'ro-fa-oil), n. An oil, resembling castor-oil in composition and properties, obtained from the seed of Jatropha Curcas (Curcas purgans) and J. multifida. Also known as curcas-oil and purqueira-oil.

jatrophic (ja-trof'ik), a. [Jatroph(a) + -ic.]

Relating to the plant genus Jatropha, especially to J. Curcas or to its medicinal seeds.

jaun² (jân), n. [Beng. yān (pronounced jān), Hind. yān, a vehicle, \langle Skt. yāna, a vehicle, \langle Vyā, a going, walking, way, course, go, move, walk.] A small palanquin-carriage such as is used in Calcutta by business men in going to their offices.

their offices.

My work . . . was sedentary, save for an occasional run in an office jaun to the Customhouse or elsewhere.

E. Braddon, in Blackwood's Mag., Oct., 1893, p. 490.

jaundice, n. S. Same as *grasserie.—Catarrhal jaundice, jaundice occurring as a symptom of catarrhal inflammation of the bile-ducts.—Hematogenous jaundice, a yellowish coloration of the skin due to blood-changes and not to the presence of bile-pigments in the tissues.—Hepatogenous jaundice, jaundice resulting from disease of the liver.—Malignant jaundice, acute yellow atrophy of the liver.—Obstructive jaundice, jaundice due to impediment to the flow of bile in the ducts.—Simple jaundice. Same as catarrhal *jaundice.iaundice.root. (iiin/dis.röt) a. The orange-

jaundice-root (jän'dis-röt), n. The orangeroot, Hydrastis Canadensis

jaune antique (zhōn on-tēk'). [F., 'old ye]-low'] A variegated and crystalline terracotta, seen in vases. The colors are black and rich saffron. Meteyard, Hand-book of Wedgwood Ware, Glossary.

janne brilliant (zhōn brē-yon'). [F., 'brilliant vellow.'] A trade-name for cadmium sulphid used as a pigment. Also known as cadmium yellow.

jaune clair (zhōn klar'). [F., 'clear yellow.'] A clear yellow or canary-color seen in Sèvres porcelain.

An abbreviation of Javanese.

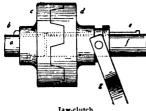
Java wax. Same as fig *wax. javali (hä-vä-lē'), n. [Also javari; S. Amer.] The South American peccary, Dicotyles labia-

Javan. a. II. n. A native of Java.

javanine (jav'a-nin), n. [NL. javan(ica) (see def.) + -ine².] A colorless alkaloid contained in the bark of Cinchona Calisaya javanica. It crystallizes in rhombic plates. javelin-fish (jav'lin-fish), n. A fish, Pomadasys

together as in the self-centering chuck, but are movable and adjustable independently.—Inside jaw-chuck, a chuck in which the jaws for holding the work move from within radially outward to grip hollow cylinders on their inner surfaces.

part of the jeer-fall. See jeer² and *jeer-fall.



end of another.
It consists of a pair
of collars one of
which is keyed to
the end of each
shaft. One of the
collars is free to
slide axially on its
shaft the other. Jaw-clutch.

Jaw-clutch.

a. shaft carrying fixed collar c; b, key:
a. collar moving axially on shaft f, the other being fixed. When the movable plece elides toward the collection of the clutch; f, arm for throwing clutch in or out.

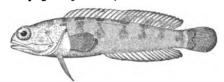
slide axially on its shaft, the other all when the movable plece elides toward the cherry one enter jaws on the other and so units the two shafts.

end of another.

to the

shaft

jaw-fish (jå'fish), n. A name of fishes of the family Opisthognathidæ, small fishes found near



Jaw-fish (Opisthognathus macrognathus). (From Bulletin 47, U. S. Nat. Museum.)

the rocky bottoms of tropical seas and remarkable for the great length of the upper jaw. jaw-hole, n. 2. An opening in the ground; the entrance to a cave or cavern. Whitby Glossary. [Prov. Eng. and Sc.]

jawing-tacks (ja'ing-taks), n. pl. Same as iaw-tackle

jaw-me-down (jâ'mē-doun'), n. A domineer-ing arguer. [Naut. slang.]

aw-twister (jâ'twis'ter), n. A jaw-breaker. jay², n. 1. In England the name is locally given to birds that are not jays at all, including the Cornish chough and the mistlethrush, Turdus viscivorus.

4. In angling, a variety of artificial fly dressed with blue jay feathers.—California jay, Aphelocoma californica, a species much like the Florida jay, but lighter below.—Siberian jay, Perisoreus infaustus, a bird allied to the Canada jay or whisky-jack of North America, and the only jay belonging to a genus common to the Old and New Worlds.

jay-bird, n. 2. A stupid person; a country simpleton; a hay-seed: same as jay^2 , 3 (b). [Slang.]

From the land of logs and peaches
Came a callow jay-bird dressed
In homespun coat and breeches

And a gaudy velvet vest. Eugene Field, in Chicago Daily News, July, 1886.

jayhawk, v. t. 2. To strip one 4-foot length of berk from (a tan-bark oak), leaving the tree standing.

J. C. An abbreviation (a) of Jesus Christ; (b) of Julius Cæsar; (c) [l. c.] of the Latin jurisconsultus, jurisconsult; (d) of justice clerk.

J. C. D. An abbreviation of the Latin Juris Civilis Doctor, Doctor of Civil Law.

An abbreviation (a) of Junior Deacon; (b) of the Latin Juris Doctor, Doctor of Law. jeanette-twill (jā-net'twil"), n. Same as

jean-twill (jān'twil), n. Same as jean, 2. jebaru (zhā-bā-rō'), n. [Brazilian.] Eperua purpurea, a large leguminous tree of northern Brazil, congeneric with the wallaba of Guiana. Brazil, congeneric with the wallaba of Guiana. in jelly-making.

The natives use the tough bark in the manu-jelous, jelousy. Simplified spellings of jealous, facture of certain musical instruments.

Jebb process. See *process.

jebel (jeb'el), n. [A European rendition of Ar. jabal, a mountain.] Mountain; mount: a term occurring in some geographic names of Arabic origin. It is concealed in Gibraltar.

jecolein (jek-ō-lē'in), n. [L. jec(ur), liver, + oleum, oil, + -in².] One of the fatty principles contained in cod-liver oil.

jeer-capstan (jēr'kap'stan), n. A capstan placed amidships between the foremast and mainmast for general use, as for stretching rope, etc.

jeer-fall (jer'fal), n. A rope rove through the jeer-blocks which together form the jeers.

jectee, n. Same as jetee.
jeffing (jef'ing), n. [jeff'], v.]
chance played by type-setters. A game of See $jeff^1$, v. Jeffreysia (je-frē'zi-ä), n. [NL. (Forbes, 1850).] The typical genus of the family Jeffreysiidæ.

Jeffreysiidæ (jef-rē-sī'i-dē), n. pl. [NL., < Jeffreysia + -idæ.] A family of tænioglossate gastropods, of the order Prosobranchiata. They have the mantle with two pointed ciliated appendages in front, the tentacles also ciliated, eyes esselle and situated far behind the base of the tentacles, marginal teeth sometimes absent, and the shell small, thin, and pellucid. The family contains the genera Jefreysia and Dardania, marine forms living on alge.

jehad (jē-hād'), n. See jihad.
jeju (zhā-zhō'), n. [Tupi (southern Brazil)
jeju (Martius, 1863).] A food-fish belonging to
the family Characinidæ, found in the rivers of South America.

South America.

The "jeju" and agulha, which are valued as food fishes.

Rep. U. S. Nat. Mus., 1901, p. 199.

jejunectomy (jē-jö-nek'tō-mi), n. [NL. jejunum + Gr. ἐκτομή, excision.] Excision of a
portion of the jejunum.
jejunitis (jē-jö-nī'tis), n. [NL., ⟨ jejunum +

-itis.] Inflammation of the jejunum.
jejunostomy (jē-jö-nos'tō-mi), n. [NL. jejunum + Gr. στόμα, mouth.] The establishment
by a surgical operation of an opening from the
exterior of the body into the jejunum.

by a surgical operation of an opening from the exterior of the body into the jejunum.

jelab, jellab (je-läb'), n. [Ar. jallabiya, a long blouse, connected with jallābi, imported, jalba, a foreign country, (jalaba, import.] A cloak with a hood worn by men in Morocco. Also jelib.

jelba (jel'bä), n. [Appar. < Ar. jalba, foreign country: see *jelab.] A large coasting-vessel of the Red Sea.

jelloid (jel'oid), a. and n. [jell(y) + -oid.]

I. a. Having the property of jelly; similar to a jelly.

II. n. A medicated tablet or lozenge of gelatin.

genaul.

jelly1, n. 4. A jellyfish, as Aurelia or Cyanea.

—Mineral jelly, a soft semisolid product from petroleum, the best free from crystalline parafin, extensively used as a basis for salves and ointments. It is prepared by different processes, and sold under various tradenames, as vaseline, cosmoline, etc. Also called petroleum jelly.—Royal jelly, the especial food with which queen larves are fed by the worker honey-bees.

1-11-14153 — Trans. To make a jelly of:

jelly¹ (jel'i), v. I. trans. To make a jelly of; reduce to the consistence of jelly.

II. intrans. To solidify or congeal; become

jelly-leaf (jel'i-lef), n. The Queensland hemp. See Sida, 1.

jelly-nut (jel'i-nut), n. An unripe cocoanut in which the kernel is still so soft that it can be scraped out in the form of a custard or jelly.

jelly-powder (jel'i-pou'der), n. 1. A form of gelatin dynamite.—2. A powdered preparation of gelatin, of various flavors, used in

making puddings, etc.
jelly-press (jel'i-pres), n. A device, worked
by hand, which presses the juice from fruits

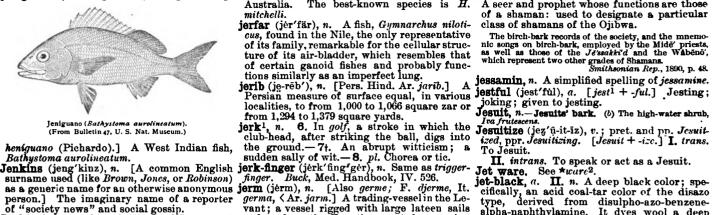
Jemmy Donnelly (jem'i don'el-i). Any one of three large, valuable timber-trees of Queensland, Myrsine variabilis, Euroschinus falcatus of the cashew family, and Eucalyptus resinifera.
The last is also called Jimmy Low and forest mahogany. See ironbark-tree. [Colloq., Australia.]

Jemmy Jessamy (jem'i jes'a-mi). A dandy; a fop. Also used attributively. See Jessamy, n.

Jena glass. See *glass.
je-ne-sais-quoi (zhė-n(e)-sā-kwo'), n. [F., 'I know not what.'] A something one can not describe; usually, something too attractive to be expressed.

jeniguana (hā-nē'gwā-nā), n. [Cuban Sp. heniquana, from a native West Indian name (Pichardo).] A hæmuloid fish, Hæmulon melanurum, reaching a length of about one foot, found in the West Indies and southward.

ieniguano (hā-nē'gwā-nō), n.



Jenkins (jeng'kinz), n. [A common English surname used (like Brown, Jones, or Robinson)

as a generic name for an otherwise anonymous jerm (jerm), n. [Also germe; F. djerme, It. germa, (Ar. jarm.] A trading-vessel in the Levantz of "society news" and social gossip.

Jenkinsia (jeng-kin-zi-ā), n. [NL., named after Oliver P. Jenkins, an American ichthyologist.] A genus of herrings found on both southern coasts of North America.

Jenkinsite (jeng'kinz-īt), n. [Named after J. Jenkins of Monroe, New York.] A ferriferous serpentine, near hydrophite, occurring as an incrustation on magnetite in Orange county, New York.

Jennerian (je-ne'ri-an), a. Relating to Edward Jenner (1749-1823), the discoverer of the pro-tective value of vaccination, or to vaccination or other similar methods for the prevention of

infectious diseases.

Jennerization (jen'e-ri-zā'sbon), n. [Jennerize + -ation.] Inoculation for the prevention of an infectious disease; vaccination; recently, the inoculation of cattle with tubercle bacilli from the human being, for the purpose of inducing a modified form of tuberculosis as a protection against the more violent form peculiar to cattle.

peculiar to cattle.

Jennerize (jen 'e-riz), v.t.; pret. and pp. Jennerized, ppr. Jennerizing. [Jenner (see *Jennerizing)] + i.ze.] To vaccinate or inoculate, in the manner practised or initiated by Edward Jenner. See *Jennerization.

jennet¹, n. 2. The female ass; a jenny.

Tegetmeier and Southerland, Asses and Mule

Tegetmeier and Southerland, Asses and Mule Breeding, p. 146.
jenny, n. 5. A locomotive-crane; a self-propelling crane used for carrying heavy weights.—
6. Compasses with one end bent inward.—7. A stroke in English billiards, originally a losing hazard made from balk into a middle pocket, the object-ball being near the pocket, but below it: now applied to any acute-angled pocketing placed from balk to a ball outside, and thence into any of the four pockets beyond balk.—Silver tenny, a common name of Eucinostomus balk.—Silver jenny, a common name of Eucinostomus gula, a fish of the family Gerridæ, found from Carolina to Brazil.

jentacular (jen-tak'ū-lär), a. [NL. *jentacularis, < L. jentaculum, an early breakfast, < jentare, breakfast: see *jentation.] Relating to breakfast.

jentation (jen-tā'shon), n. [LL. jentatio(n-), \(jentare, \) breakfast, appar. contracted from \('jejunitare, \) jejunus, fasting. Cf. dine, dinner.] Breakfast.

jeopardy (jep'är-di), v. t.; pret. and pp. jeopardied, ppr. jeopardying. [jeopardy, n.] To jeopardize: as, he jeopardied his fame. jepard, jepardy. Simplified spellings of jeopard, jeopardy.

jequitiba (zhā-kē-tē-bā'), n. [Brazilian.] Any one of several species of large Brazilian trees belonging to the genus Cariniana, of the family Lecythidaceæ; especially C. Brasiliensis and C. excelsa. They yield an astringent bark useful in bowel complaints, and a highly prized hard, tough, durable wood.

Jerahmeelite (je-rā'mē-el-īt), n. [Jerahmeel the descendants of Jerahmeel, the brother of Caleb (1 Chron. ii. 9), living on the southern border of Judah: probably an Amalekite or Edomite tribe which afterward was absorbed by Judah.

Jersey Cow.

Jersey Lin écarté, a hand on which it is right to stand, or play without proposing; also, one with which it is right to refuse, or play without giving cards.

jew-balance (jö'bal'ans), n. The name given by sailors in the Mediterranean to the hammer-headed shark.

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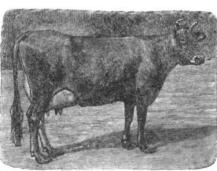
jew-balance (jö'bal'ans), n. The name some breaded shark.

jew-ba

jerfar (jer'far), n. A fish, Gymnarchus niloti-cus, found in the Nile, the only representative of its family, remarkable for the cellular struc-



Jersey Bull.



jerboa-mouse, n. 2. The North American chelidonic.
jumping-mouse, Zapus hudsonicus.
jerboa-rat (jer'bō-ä-rat'), n. A common name sum, gypsum.] In petrog., a bed of decomfor the small rodents of the genus Hapatotis, posed gypsum.

jewel-house

[Cuban Sp. found in Tasmania and the desert regions of jessakeed (jes'a-kēd), n. [Ojibwa jessakkid.]

Australia. The best-known species is H. A seer and prophet whose functions are those mitchelli. class of shamans of the Ojibwa.

The birch-bark records of the society, and the mnemo-nic songs on birch-bark, employed by the Mide' priests, as well as those of the Jersakki'd and the Wabeno', which represent two other grades of Shamans. Smithsonian Rep., 1890, p. 48.

To Jesuit.

II. intrans. To speak or act as a Jesuit.

Jet ware. See *ware2.

jet-black, a. II. n. A deep black color; specifically, an acid coal-tar color of the disazo type, derived from disulpho-azo-benzene-alpha-naphthylamine. It dyes wool a deep bluish black in a mildly acid or neutral bath.

Diamine jet-black Cr. 00, RB, and SS, direct cotton coal-tar colors. They dye unmordanted cotton a jet-black in a salt bath.

and used on the Egyptian coast and used on the Egyptian coast and used on the Egyptian coast and and used on the Egyptian coast and selection of the passengers and freight.

jerrawicke (jer'a-wik), n. [Origin obscure.] A name formerly given in Australia to beer or ale made in that country. E. E. Morris, Australia English.

jerry, n. 2. A machine for shearing fabrics.

—3. The jocular uproar or noise made in a printing-house by compositors on any extraor-integration of the groups of small holes. A mixture of air and vapor comes through these and forms jets of combustible a number of small holes. A mixture of air and vapor comes through these and forms jets of combustible combustion and a blue flame.

-3. The jocular uproar or noise made in a printing-house by compositors on any extraordinary occasion. [Printers' slang.]

II. a. Defectively or flimsily constructed; jerry-built: as, a jerry house; a jerry ship. jerry-built: as, a jerry house; a jerry ship. jerry-built: as, a jerry house; a jerry ship. jerry-built; as, a jerry house; a jerry-building. Jerry Sneak (jer'i snēk'). [Jerry Sneak, the cowardly henpecked 'Mayor of Garratt,' in Foote's play of that name.] A henpecked, mean, sneaking fellow. jersey, n. 3. [cap.] A celebrated breed of dairy cattle which originated in the island of Jersey, in the English channel, and is noted for the yield of milk. Jerseys are the smallest of dairy cattle, with rounded bodies, slender, rather short dairy cattle, with rounded bodies, slender,

See icterus, 2.

jet-pile (jet'pīl), n. A wooden or iron pile that can be set in position by means of a jet of water: so named to distinguish it from one driven into place by means of a pile-driver. The pile to be set in sand, either above or below the surface of the water, is placed upright, with the point resting on the sand. A length of gas-pipe is placed close beside the pile, the upper end being connected to a hose. When a powerful stream of water is forced through the pipe, the jet of water escaping at the lower end stirs and loosens the sand, and the pile, no longer supported by solid sand, sinks slowly downward by its own weight, the pipe sinking at the same time. When the pile is deep enough, the stream is cut off, and the sand compacts around the pile, holding it firmly in place. A less powerfal jet loosens the pipe, and it can be withdrawn and used again. Iron piles are sunk by forcing the water through the hollow pile, the jet escaping from the point or toe of the pile. This process of pile-sinking is called jet pile-driving.

jet-propeller (jet'pro-pel'er), n. A device on an air-ship or a vessel for throwing a jet of air or water in a direction contrary to that in which it is desired to propel the vessel. The fluid is taken in at the forward end of the vessel and thrown out at the other end, the reactive energy of the jet being thus utilized to drive the vessel ahead.

jet-propulsion (jet'prō-pul'shon), n. The act or process of propelling a vessel or an air-ship by the reaction of a jet of water or air which is set in motion by machinery contained in the vessel.

the vessel.

jet-pump, n. 2. Same as filter-pump.

jet-slug (jet'slug), n. A kind of slug.

jet-valve (jet'valv), n. 1. A starting-valve
in an injector or inspirator.—2. The valve
controlling the water-jet in a jet-condenser.

jeu de règle (zhè de rā'gl). [F., 'play of rule.']

In écarté, a hand on which it is right to stand,
or play without proposing; also, one with
which it is right to refuse, or play without
giving cards.

Jewelers' gold, grain. See *gold, *grain1.— Jewelers' lathe, vise. See *lathe1, *vise1.

jewel-house, n. 2†. A house or place in which treasures or jewels are kept; hence, a treasury.

— Master of the jewel-house, an official who had charge of all the plate used for the table of the king or of a great

noble; specifically, one who had charge of all plate and jewels in the Tower of London. Philisps, 1706.

Thomas Cromwell;
A man in much esteem with the king, and truly
A worthy friend. The king has made him master
Of the jewel house,
And one, already, of the privy council.

Shak., Hen. VIII., iv. 1.

jewely, a. 2. Covered or adorned with jewels. jewfish, n. (h) In New South Wales, a name of two or more species, all fishes of large size, as Sciæna antarctica and Glaucosoma hebraicum. Sciæna antarctica is the kingfish of the Melbourne market. Sciæna is called dewfish in Brisbane. It belongs to the family Sciænidæ. B. E. Morris, Austral English.

jewhood (jö'hūd), n. Judaism; the state or jeondition of being a Jew. Carlyle.

Jewish fasts, festivals. See *fast3, *festival.

Jewism, n. 2. A characteristic of the Jews or of their method of speech; a Jewish idiom. jew-lizard (jö'liz'ärd), n. A large lizard, Amphibolurus barbatus, of the family Agamidæ. It is found in Australia, where it is known

also as the bearded lizard from the frill of spines beneath the throat.

jew-monkey (jö'mung'ki), n. A name for two very different species of monkey, one, Pithecia chiropotes, from northern South America, and the common macaque, Macacus cynomulqus, of southern Asia: supposed to be given on account of the beard.

Jews'-stone, n. 3. Crystallized iron pyrites or pyrite, early used as a gem. jew-wattle (jö'wot'l), n. Same as jewing.

The next important point is the beak wattle, which should appear (in the Dragoon) on the upper mandible alone, lower or jew wattle being a fault. Book of Pigeons.

jezail (je-zīl', or -zāl'), n. [Also jizail, juzail; ¿ Pers. juzā'i.] A long and heavy musket fired from a rest, used by Asiatic tribes. It is of the same character as the jingal.

All night the cressets glimmered pale
On Ulwar sabre and Tonk jezail,
Mewar headstall and Marwar mail,
That clinked in the palace yard.
R. Kipling, The Last Suttee, st. 2.

Nublee Baksh Punjabi Jat found a hide-bound fail, Chimbu Singh from Bikaneer oiled his Tonk jezail.

R. Kipling, What Happened, st. 8.

Jezebelian (jez-e-bel'ian), a. Having the character of a Jezebel; impudent; wicked.

Jezebelish (jez'e-bel-ish), a. Same as *Jeze

jeziah (jez'yä), n. [Pers. Ar. jizyah.] A polltax imposed by Mohammedan law on non-Mohammedan subjects; specifically, that exacted by the Mogul emperors in India. N. E. D. J. G. W. An abbreviation of Junior Grand

Warden. jharal (jä'ral), n. [E. Ind.] The East Indian thar, Hemitragus jemlaicus, one of the wild

jhobu (jō'bö), n. [A Tibetan name.] A small breed of cattle, used as beasts of burden in A small Tibet: a local name adopted by various writers.

A cross-breed of horned cattle called jhobu. Geog. Jour. (R. G. S.), XV. 153.

jhow (jou), n. [Anglo-Ind., < Hindi jhau, < Skt. jhauuka.] The Indian tamarisk, Tamarix Indica, a shrub or small tree found throughout India in the marshes of rivers and along the sea-coast. Its wood is used principally as fuel and the smaller twigs are used for thatching and basketry.

for thatching and basketry.

JHVH. See Jehovah.

jib¹, n. 2. The boom of a derrick; the inclined strut in a derrick, which can be swung in a vertical as well as a horizontal plane.—Flying-jib halyards. See *halyard.—Jib-and-staysail-jack, a sallors' name for a nervous, fussy officer who keeps the watch unnecessarily on the move trimming and making and shortening sail.—Up jib¹ (naut.), a command to start off.

As soon as I told him that, he up jib and went off.

Dialect Notes, II. vi.

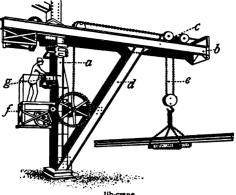
jibaro (hē'bā-rō), n. [Also gibaro; W. Ind. Sp. jicotera (hē-kō-tā'rā), n. [Mex. Sp.] The jibaro, rustic, savage, wild: from an aboriginal word; of Taino zibao, mountain region.] jiff² (jif), n. Short for jiffy: as, he was off in One of the poorer class of native peasantry in Porto Rico. F. A. Ober, Our West Indian jiffle (jif), v. i.; pret. and pp. jiffled, ppr. Neighbors, p. 231. jibbah (jib'ā), n. Same as jubbah. jiffle (jib'ā), n. Same as jubbah. sibher² (jib'àn), p. i. Soo gibber²

jibber² (jib'er), v. i. See gibber¹.

jibbong, n. Same as *geebung.

jib-boom, n.—Flying-jib boom, the light spar that rests on the jib-boom and that is rigged out shead of the latter.—Jib-boom guys. See *guyl.
jibby-horse (jib'i-hôrs), n. A showman's horse covered with gaudy trappings.
jib-crane (jib'krān), n. A crane having a horizontal boom on which travels a trolley

which carries the hoisting-tackle. The boom is supported by a rotating column and by a bracket and which carries the hoisting-tackle.



s, mast pivoted below and above; \$\delta\$, jib or boom supporting tr ; \$\epsilon\$, trolley traversing jib; \$\delta\$, strut; \$\epsilon\$, hoisting-chain and bloc motor; \$\epsilon\$, controller for handling hoist, traverse of trolley, a f, motor; g, contro wing-gear of mast.

counterweights, or is pivoted to a fixed column. Many types are in use, operated by hand or by electric or pneumatic motors.

jib-foresail (jib'for'sāl), n. The first head-sail forward of the foremast on a fore-and-aft vessel, which sets on the forestay.

jib-headed (jib'hed'ed), a. Having, as a sail, its head shaped like that of a jib, namely, pyramidal or like an inverted V. All head-sails and gaff-topsails are jib-headed, with the exception of the English style of square-headed gaff-topsail. See *jack-need*

jib-header (jib'hed'er), n. A sail whose head is shaped like the head of a jib. See *jibheaded.

jib-iron (jib'ī'ern), n. Naut., the thimble in the clue of a jib.

jib-machine (jib'ma-shēn'), n. In mining, a machine for cutting coal, in which the frame carrying the cutting-tools is mounted on the end of a jib, so that it may be swung around and worked at various angles.

jib-netting, n.—Flying-jib netting, a safety netting rigged under the flying-jib boom.

jiboggan (ji-bog'an), n. [From a variant form of the Algonkin original of toboggan.] A large sled on runners. [New Eng.]

jiboo (ji-bö'), v. t. In lumbering, to remove a grab from (a log).
jiboya (ji-bō'yā), n. [Tupi (Martius).] The

boa-constrictor.

jib-post (jib'post), n. The post of a jib-crane or derrick; the vertical member which sup-

ports the arm or jib of a crane or derrick.
jib-traveler (jib'trav'el-er), n. Naut., the
large iron ring to which the tack of a cutter-

large iron ring to which the tack of a cutter-yacht's jib is made fast. This ring encircles the bowsprit, and is run in and out on that spar by means of an outhaul and an inhaul respectively. The jib is always set flying, the halyards and sheets being hooked in and unhooked as the sail is set and taken in.

jicama (hē'kā-mā), n. [Nahuatl xicama, or xicamatl.] In Mexico, a name applied to several edible roots, especially to that of the yam-bean, Cacara erosa, a leguminous plant with a sweetish, turnip-like root, which may be eaten either raw or cooked. This plant is now widely spread throughout the tropics.

jicara (hē'kā-rā), n. [Amer. Sp. jicara. (

now widely spread throughout the tropies.

jicara (hē'kā-rā), n. [Amer. Sp. jicara, <
Nahuatl xicalli, the calabash-tree.] 1. Same as calabash-tree. Compare *higuera.—2. Same as calabash, 1.—3. In metal., a small bowl used in testing silver amalgam. Vhillips and Bauerman, Elements of Metallurgy, p. 743.

jicote (hē-kō'tā), n. [Mex. Sp., < Nahuatl xicotli.] The name given in Mexico to any stinging burrowing bee.

jicotera (hē-kō-tā'rā), n. [Mex. Sp.] The nest of a jicote.

jiff2 (jif), n. Short for jiffy: as he was off in itrician.

shuffle with the feet. [Prov. Eng.]

jig, n., 6. (d) An appliance used in the manufacture of articles on the interchangeable system, whereby exact uniformity of dimension is secured. The blank to be operated on is attached to the jig, and the latter compels all holes to come at determinate distances, and all profiles to measure alike when machining is completed, without calibration and measurement. (e) Naut., a tackle made fast to one end of the throat and peak halyards so as to get an extra purchase after the regular hauling part has been belayed.— Collom jig, in mining, an ore-jig in which the plungers are depressed by the blows of a heavy

cast-iron rocker: much used in the Lake Superior copper region.—Harz jig, in mining, the side-piston jig which had its development in the Harz mountains of Germany.—Krom jig, in mining, an air-jig in which the separation of minerals of different specific gravity is effected by pulsating blasts of air.

jig, v. t.—To jig up (naut.), to set up with the jig: said of the throat and peak of a sail.

jiga (jē'gā), n. [Given as from "Chinese jiga, mmine me."] The name in China for any wasp which stores up caterpillars as food for its young. Cambridge Nat. Hist., VI. 92.

jig-backed (jig'bakt), a. Having a crooked or twisted back.

It was discovered that, from a wrench, she [a mare] was so jig-backed. Sporting Mag., VIII. 262. N. E. D.

also jig-backed. Sporting Mag., VIII. 262. N. E. D. jig-brow (jig'brou), n. In mining, an underground railroad operated by gravity: same as jig, 6 (b). [Eng.] jig-drilling (jig'dril'ing), n. The process of drilling holes the location of which is determined by a jig or templet. The holes may be located very accurately in this manner, and any number of pieces can be drilled with the holes in the same relative position.

jig-dyer (jig 'di 'er), n. A dyeing-machine largely used for dyeing cloth a solid color in the open or full width. It consists of a dye-vat above which are two rolls upon which cloth may be wound. The cloth passes through the dye liquor back and forth from one roll to the other until the dyeing process is completed.

jig-filing (jig'fi'ling), n. The process of filing to a definite size or outline by the use of a jig or templet.

iigged (jigd), a. Made in a jig; hence, accu-

nately made. See *jig, 6 (d).

jigger 1, n. 2. (m) A clutch for attaching mine-cars to a haulage rope, consisting of a vertical rod with side-hooks which hold by biting the rope as the rod turns. Barrowman, Glossary.

7. An illicit still.—8. A leaded hook or

7. An illicit still.—8. A leaded hook or gang of hooks used without bait for catching fish by jigging. See jig, 6 (c).—9. A machine used for dyeing cloth. See *jig-dyer.—10. In golf, a club with an iron head, between a golf, a club with an iron head, between a mashy and a mid-iron, used for approaching.

—11. In wireless teleg., a small transformer used for regulating and maintaining the difference of potential between the termina's of a coherer.—12. In the Royal Mint, a small weight which it is necessary, in certain cases, to add to a given number of coins to make an exact pound in weight. W. J. Hosking, Royal Mint. N. E. D.

jigger¹, v. t. 2. To pull (a log) by horsepower over a level place in a slide.

jigger-block (jig'er-blok), n. A block having

jigger-block (jig'er-block), n. A block having the strap, whether of rope or metal, continued out so as to furnish a convenient means of securing it.

jiggering (jig'er-ing), n. In ceram., the process of making plates and saucers, and other flat-ware, on the jigger. See jigger¹, 2 (e). jigger-sail (jig'er-sail), n. A sail that sets on

a jigger-mast.

a jigger-mast.
jigger-tackle (jig'er-tak'l), n. Naut., a handybilly used about decks; a watch-tackle.
jigging (jig'ing), n. The sifting, dressing, or
sorting of ore by means of a jigging-machine. jiggle, v. II. trans. To jerk or joggle slightly. jiggle (jig'l), n. A slight joggle; a quick jiggling movement.

jig-saw (jig'sâ), v. t. To cut with a jig- or scroll-saw.

at one end a claw similar to a hammer-claw.

jimjam, n. 3. pl. Oddities; fads.

jimmy-legs (jim'i-legz), n. A cant name for
the master-at-arms in the United States navy. Jimmy Low (jim'i lō'). The timber-tree called forest-mahogany, Eucalyptus resinifera. See Eucalyptus, ironbark-tree, and *Jemmy Donnelly. [Colloq., Australia.]

Jimmy Squarefoot (jim'i skwar'fut). A sailors' name for the devil; the nautical Lucises.

fer or Satan.

jin (jin), n. [Perhaps another use of gin² (a machine).] A tall pole used in connection with rope and tackle to raise heavy objects.

jina (jin'ä), n. [Skt.] Buddha, or a Jain saint. [Skt.]

jing (jing), v. [Imitative, like ring2, ting, chink,

etc.] I. intrans. To ring.

II. trans. To ring or jingle.

jing (jing), n. [jing, v.] A short, sharp ring.
jing-bang (jing'bang), n. [Also jim-bang; an invented term.] 'Shebang'; concern; thing:
used only in the phrase, 'the whole jing-bang.' [Slang.]

jingle, n. 6. A two-wheeled car (like the Irish jingle) used in some parts of Australia. E. E. Morris, Austral English.

jingle-bell (jing'gl-bel), n. In the engine-room of a steamboat, a bell hung upon a spring and controlled by a cord or wire from the pilot-house. When rung, its jingling sound signifies that all is clear or 'full speed ahead,' or, after entering a alip or dock, that the boat is fast.

jingle-jangle (jing'gl-jang'gl), v. i. To make

a jingling sound.

jingling (jing'gling), n. 1. A continued ringing; a lively noise of bells, or the like clinking.—2. A game in which the players are blindfolded and try to catch one, called the 'jingler,' who is not blindfolded and who jingles a bell to attract their attention and, if chilful to divert it. Also called lived in match. skilful, to divert it. Also called jingling-match. jingling-match (jing'gling-mach), n. Same

as *jingling, 2. Jingo (jing'gō), v. t. To force to a certain course of action by the influence of the Jingo spirit, that is, an aggressive bellicose patriotism.

Jingoist (jing'gō-ist), n. and a. I. n. Same as

Jingo, 2.

II. a. Resembling or having the qualities of

Jingoism.

jink² (jingk), n. [Imitative; cf. jing, chink, etc.]

The sharp jingle of coins; hence, coin itself; chink. [Slang.]

jinker, n. 2. pl. An Australian contrivance much used in the bush for moving heavy logs and

used in the bush for moving neavy logs and trunks of trees. It consists of two pairs of wheels with their axletrees joined by a long beam, under which the trunks are suspended by chains. Its structure is varied in town for moving wooden houses. Called in England a whim. E. E. Morris, Austral English. jinket (jing'ket), v.i. [Imitative of quick motion; cf. jink.] To frolic and romp; fling or dance about.

jipijapa (hệ-pệ-hã/pã), n. [Yunca Indian, in Ecuador; the name of a town in Ecuador.] 1. A kind of grass used in Ecuador for making hats.—2. A hat made of the jipi japa grass. These hats are not of the best grade. The name is frequently given to all the straw hats more commonly known as Panama hats.

known as Panama hats.

Ecuador is the real home of the hats wrongly designated under the name of "panama."... Everywhere in Latin America the hat is known under the name of "ipijapa, in honor of the city where its manufacture was first started. It is only in Europe or outside of the producing countries that this hat receives the name of a city which does not make it. The finest hats are made in Jipijapa and at Montecristi, in the province of Manabi, Ecuador, this industry being one of the greatest resources of the country.

Amer. Anthropologist, Jan.-March, 1901, p. 206.

jirble (jer'bl), v.; pret, and pp. jirbled, ppr. jirbling. [Imitative.] I. intrans. To spill over, as liquid from an unsteady vessel, with apparently some reference to its gurgling sound:

as, a jirbling tub.
II. trans. To II. trans. To pour out (a liquid) with an unsteady hand: as, he jirbles out a dram.

N. E. D.

jirga, jirgah (jēr'gä), n. [Afghani?] A council of elders or head men among the Afghans.

A jirgah is a friendly meeting in council of the headmen of different clans for the purpose of discussing intertribal affairs.

Geog. Jour. (R. G. S.), XII. 351.

see).

Some confusion has arisen over the employment of the term "jiudo." To make the matter clear I will state that jiudo is the term selected by Professor Kano as describing his system more accurately than jiu-jitau does.

Hancock and Higashi, The Complete Kano Jiu-Jitau, [1905, p. xi.]

The art of jiu-jitsu, so C. K. Moriya, the editor of the Japanese Times, said last night by way of introduction to an exhibition of native athletes at the Columbia University gymnasium, is some 350 years old, but the more modern development of jiu-do has been worked out within the last quarter-century.

N. Y. Evening Post, Feb. 8, 1906.

joch (yöch), n.

teaches the Japanese art of wrestling called

iiu-iutsu.

jiu-jutsu. jiu-jutsu, jiu-jutsu, otherwise jū-jutsz, jiu-jutsu; 〈 Jap. jiu-jutsu, otherwise jū-jutsz (Hepburn), 〈 jiu or jū (not used in Jap. alone), 〈 Chin. jeu (Williams), jou (Giles), soft, yielding, pliant, + jutsz (Hepburn), art, science, rules, principles, artifice, trick, 〈 Chin. shu (Canton and Hakka shut, Wunchow jūe, zūe, etc.), an art, a trick, a mystery, a precept.]
The system of wrestling practised in Japan.
In its latest developments it has become an elaborate system of physical training directed particularly to the practice of certain holds and 'tricks' by which an adversary may be thrown or overcome.

Associated with sword-play was an art variously known as shinobl, yawara, and jiujutsu, names which imply the exertion of muscular force in such a manner as to produce a maximum of effect with a minimum of effort, by directing an adversary's strength so as to become auxillary to one's own.

Encyc. Brit., XXIX. 707.

one's own.

jiva (jē'vā), n. [Skt. jīvā, akin to L. vīvus, jockey-boot (jok'i-böt), n. A top-boot at one living: see vivid.] In Hindu philosophy, the individual soul or principle of life.

jivan-mukti (jē'van-mök'tē), n. [Skt. jīvān- jockey-cap (jok'i-kap), n. A cap with a long mukti, < jīvāna, life, + mukti, release, deliverance, beatitude.] In Hindu philosophy, a release from evil obtained by means of true knowledge obtained in this life.

trunks of trees. With their arletrees joined by a long with their arletrees joined by chains. Its structure the trunks are suspended by chains. Its structure the trunks are suspended by chains. Its structure that the trunks are suspended by chains. Its structure that the trunks are suspended by chains. Its structure that the trunks are suspended by chains. Its structure that the trunks are suspended by chains. Its structure that the trunks are suspended by chains. Its structure that the trunks are suspended by chains. Its structure that the trunks are suspended by chains. Its structure that the trunks are suspended by chains. Its structure that the trunks are suspended by chains. Its structure that the trunks are suspended by chains. Its structure that the trunks are suspended by chains. Its structure that the trunks are suspended by chains. Its structure that the trunks are suspended by chains. Its structure that the trunks are suspended by chains. Its structure that the trunks are suspended by chains. Its structure that the trunk are suspended by chains. Its structure that the trunk are suspended by chains. Its structure that the trunk are supported in this inc.

JJ. An abbroviation of Justices.

In. A contraction of junction.

Joseph Jj., i.; pret. and pp. jinkled, jo (jo), n. [Jap. jo. (Chin. chang, a measure of the same name is said to be a fourth part longer. Hering, Conversion Tables, p. 34.

Jock, n. Originally adopted by Buffon as the proper common name for the chimpansee, it has become the favorite nickname for any of the chimpansee, it has become the favorite nickname for any of the chimpansee, it has become the favorite nickname for any of the chimpansee, it has become the favorite nickname for any of the chimpansee, it has become the favorite nickname for any of the chimpansee, it has become the favorite nickname for any of the chimpansee, it has become the favorite nickname for any of the chimpansee, it has become the favorite nickname for any of the chimpansee, it has become the favorite nickname

from which the bight of the chain and hook-block of the crane depend.

jinny-road (jin'i-rod), n. In mining, a jig; a gravity-road in a coal-mine.

jinny-spinner (jin'i-spin'e'r), n. A sailors' name for the cockroach found on board ships.

jinrikisha (jin-rik'i-shä), v. i. To go about in a iinrikisha.

The camp fan, an old iinrikisha.

The camp fan, an old iinrikisha.

The camp fan, an old is a job on one, to cheat or hoax by some prearranged scheme. [Colloq.]

scheme. [Colloq.]

iobbernollismt (job'er-nol-izm), n. A stupid iobbernollismt (job'er-nol-izm), n. A mercan-

jobbing-house (job'ing-hous), n. A mercantile house that buys in bulk from the importer or manufacturer and sells to the retailer

jobbing-plate (job'ing-plat), n. The tradename for gold, silver, and other metals when rolled into thin plates for jewelers' use. jobble (job'l), n. A choppy sea; a jabble. See jabble².

job-book (job'buk), n. In job-printing, a book in which the particulars of each job, as the charges, the number printed, size, etc., are entered for reference.

jobing (jōb'ing), n. [$job^3 + -ing^1$.] A scolding. litl, job-man (job'man), n. A job-master. [Eng.]
In job-monger (job'mung'ger), n. Same as

jobber2, 5.
jobper3, 7.
jobper3, 8.
jobper

job-printing (job'prin"ting), n. The customary work of a job-printer, such as the printing of cards, handbills. bill-heads, posters, etc. The term is also applied to pamphletcatalogues, illustrated or in colors.

A popular name for the constellation Delphinus or the Dol-

jobsmith (job'smith), n. A smith who does jobs of all kinds.

Job's-tears, n.—Wild Job's-tears, the Virginia false gromwell, Onosmodium Virginianum, so called from the shining nutlets.

jocalia (jō-kā'li-ä), n. pl. [ML.: see jewel.] In law, jewels; more especially, ornaments belonging to a married woman as her separate property, which, if not in keeping with her station in life, could be seized to satisfy

och (yōch), n. [G., lit. yoke: see yoke.] An Austrian land-measure, equal to 1,600 square

klafter, or 1.42 acres.

jock¹ (jok), n. [jock¹, v.] An iron rod, usually pronged, which is attached to the rear end of a train of mine-cars ascending an incline, and trails behind, to stop the descent of the cars if the rope breaks. [Scotch.]

Jock², n. 3. A nautical name for a Scotch

seaman

jockey, n. 9. Same as *jockey-weight.

Along the bar runs a rubbing "jockey," which is worked to and fro by the regulator lever and a counter-weight.

Elect. World and Engin., Dec. 19, 1903, p. 1017.

Elect. World and Engin., Dec. 19, 1903, p. 1017.

Dumb jockey, a device for breaking colts to the bit and for training them to carry the head high. It consists of an X-shaped frame, two arms of which extend down the animal's sides and are secured by girths; the upper arms have loops and buckles for receiving the reins.

jockey, v. t.—To jockey a yard, to sit on the yard of a vessel with one's legs dangling on either side.

jockey-bar (jok'i-bär), n. The broad, flat top bar of a kitchen-grate. [Prov. Eng.]

The table was laid with curps and saucers, the kettle

The table was laid with cups and saucers, the kettle was singing on the jockey-bar, and Auntie Nan herself, . . . was fluttering about with . . . the light galety of a Hall Caine, The Manxman, ii. 1.

And favour our close Jocondrie,
Till all thy Dues be done and nought left out.
Milton, Corrections of Comus. N. E. D.

joe-bush (jō'bush), n. In the Bahamas, Jaquinia Keyensis, a common shrub growing upon coral limestone, and also found on the Florida keys. Compare joewood.

joepye-weed, n.— Spotted joepye-weed. Same as spotted *keye-bright.
joey, n. 3. A young kangaroo. [Australia.]
In the case of the larger kangaroos, the young, or 'Joey,' which may be the size of a hare before it finally leaves the pouch, must be a very serious burden to the female when at speed.

Knowledge, May, 1906, p. 106. 4. 'A hewer of wood and drawer of water.'
E. E. Morris, Austral English. [Australia.]

joey (jō'i), v. t. [joey, n., 4. Cf. kid5, r., to hoax.] To insult (a person) by the cry of 'joey.' [Slang, Australia.] E. E. Morris, Austral English.

rests a plummer-block or other bearing. -5. In iron ship-building, a setting back of part of a plate or of a barto obtain a flush surface where other parts cross, or to enable it to fit around a projection, as a butt-strap.



joggling-board (jog'ling-bord), n. A plank, suspended between supports at each end, upon which one sits and 'joggles' up and down for amusement or exercise. See the

A "joggling-board" is the latest contrivance for exercise that has made its appearance in these parts and it is liable to become the poor man's horse. . . [It is] a hardwood board some 20 feet long, with solid supports at each end that allow the board to move freely and yet keep it from becoming detached. One sits on the board, waves his arms up and down and then "joggles," the board sending him up and down as on a horse.

Kansas City Daily Star, Aug. 18, 1904.

Kansas City Daily Star, Aug. 18, 1904.

joggling-machine (jog'ling-ma-shēn'), n. A
power machine for making a joggled edge on a
steel plate. (See *joggle, n., 5.) It consists of two
massive rollers, one above the other, on parallel axes.
Each roller has two diameters, the large part of the top
roller being over the small part of the bottom roller, and
vice versa. The rollers being suitably adjusted, the edge
of the plate is passed between them, thus pressing a joggle into the edge as the plate is rolled through.

A more recent appliance for reducing weight [of the
butt-strap] is the joggling-machine.

Encyc. Brit., XXXII. 593.

joggly (jog'li), a. Shaky; joggling. jog-trot (jog'trot), v. i. To go at a jog-trot or monotonous pace.

jog-trotty (jog'trot'i), a. Of a jog-trot, easy-going, monotonous character.

"And how do you get on, Richard?" said L
"Oh! well enough!" said Richard... "It's rather
jog-trotty and humdrum. But it'll do as well as anything
else."
Dickens, Bleak House, L. xvii.

John Day beds. See ★bed1. John Doe proceedings. See *proceeding.

John-dory, n. 2. A name given in New South Wales and Tasmania to Zeus australis, of the family Zeïdæ. It is nearly the same as Zeus faber, the John-dory of Europe. Also called bastard dorey, boar-fish, and dollar-fish. E. E. Morris, Austral English.

John Gilpin jug. See *juq¹.

John-mariggle (jon'mar'i-gl), n. Same as ten-pounder, 3.

johnny, n. 5. [cap.] A hanger-on about a

He was for years a Johnny in the green room.

Daily Newspaper.

Penetrable thickets.

Johnny-jumper (jon'i-jum'per), n. Same as jointer-plane (join'ter-plan), n. Same as jointer-plane.

Johnny-jump-up. Both names are loosely applied to violets in general.

joint-ill (joint'il), n. A pyemic inflammation.

R. Kipling, Seven Seas, p. 162.

Royal jolly, a royal marine.—Tame jolly, a militiaman. [Eng.]

joily¹, v. i. an auction.

johnny-smoker (jon"i-smo"ker), n. The long-plumed purple avens, Sieversia ciliata, of North America: so called from the smoke-like aspect

of the plumose styles in the fruit.

Johnsonella (jon-sō-nel'ii), n. [NL. (Wight, 1905), a diminutive of Johnsonia.] A genus of monocotyledonous plants of the family Lili-aces. See Johnsonia. A genus of

Johnson grass. See *grass.

johnsonite (jon'son-it), n. Same as *masrite.

joint-pin (joint'pin), n. A pintle; the pin

Johnson's mixture, powder. See *mixture,

which is rove through the eyes of a hinge to

johnstrupite (jon'stru-pit), n. [Named for F. joint-pine (joint'pīn), n. See *pine¹.

Johnstrup of Copenhagen.] A fluosilicate joint-plane (joint'plan), n. The su containing titanium, the cerium and yttrium metals, calcium, and other elements. It occurs in brownish-green monoclinic crystals and is found in southern Norway.

John's-wort, n.—False John's-wort, the pineweed or orange-grass, Sarothra gentianoides.

join, v. t. 7. To draw, as the sect of which A

and B are the end points.

"Join FC." Custom seems to allow this singular expression as an abbreviation for "draw the straight line FC," or for "join F to C by the straight line FC." Todhunter, Euclid, p. 254.

To join up, to join; join together.

Where gaps occur between different surveyed blocks, these have been joined up by triangulation.

Geog. Jour. (R. G. S.), XIII. 59.

join, n. 2. In geom., the straight determined

join. An abbreviation of joinery.
joint, n. 5. In racing or betting slang, an out-

side book-maker's paraphernalia of list-frame, umbrella, etc., some of which are joined together in movable pieces. N. E. D.—Bell-and-spicot joint. See *kell.—Bonded joint, a rail-road-joint having a metal bond designed to unite the ends of the rails when they form an electric circuit as in block-signaling.—Cardan joint, a universal joint; one which permits of metion about the area stripk anglets to each permits of metion about the area stripk anglets to each permits of metion about the area stripk anglets to each permits of metion about the area stripk anglets to each permits of the fall stripk and the point is at an angle with the face or edge of the piece.—Charcot's joint, in anat., the joint between the two rows of tarsal bones.—Condytoid joint. Same as *kondylarthrosis.—Hysterical joint, an affection of a hysterical nature which simulates an arthritis.—Inserted joint, in plant which at his side of another, as a common soll-pipe leaded joint. Joposed to flange-joint.—Insulated joint, in any and the proposed to flange-joint.—Insulated joint, in plant joint same section as the rail is placed between the ends of the rails and non-conducting guards and washers under the rails and non-conducting guards and washers und

Joint action. See *action. Joint cost. See $*cost^2$. joint-bolt (joint'bolt), n.

In carebuilding, any screw-bolt employed to bind together timbers

member of the ship's company who is making his maiden voyage.—Johnny Newcome. Same as *Johnny Fresh.

Johnny on the spot, one who is always up to time or never caught napping. [Colloq.]

Johnny-cake, n. 3. In Australia, a cake baked on the ashes or cooked in a frying-pan. E. E. Morris, Austral English.

Johnny-jump (jon'i-jump), n. The shooting-star, Dodecatheon Meadia.

Johnny-jumper (jon'i-jum"per) ** Colloq is a first be called a lug-bolt (which see). One form of it is called a lug-bolt (which see). One form of it is called a lug-bolt (which see).

Joint-collar (joint'kol"sr), n. A flanged collar used for making a joint; a flanged coupling, oint-coupling, n. 2. A shaft-coupling which permits the shafts to be more or less out of line; a flexible coupling, under coupling.

Johnny-jump (jon'i-jump), n. The shooting-star, Dodecatheon Meadia.

Johnny-jumper (jon'i-jum"per) ** Colloq.]

Johnny-jumper (jon'i-jum"per) ** Colloq.]

of the joints of young animals which occurs within the first month after birth and is usuwithin the first included with disease of the navel. The microbes from the infected navel pass into the system through the veins, causing local inflammation and abscesses in and around the figure as a 'lively, quick-moving thing.'] In ceram., a machine used for making.' a variety of the jigger. See the

jointing (join'ting), n. Joints collectively, as

connect the two parts.

joint-pine (joint'pin), n. See Spine.

joint-plane (joint'plan), n. The surface of rock exposed on one side of a joint; also, the assumed plane followed by a joint in development. The latter use is figurative, since the surface is never a mathematical plane.

The latter use is figurative, since the surface is never a mathematical plane.

The latter use is figurative, since the surface is never a mathematical plane.

Messrs. Cole and Lamplugh then show that the caves depend for their form on the joint-planes in the massive limestone, and that they were excavated by solution in pre-Glacial times.

Nature, Dec. 24, 1903, p. 189.

joint-runner (joint'run"er), n. a short piece of rope saturated with wet clay and fastened round a cast-iron pipe just at the joint where two pipes are to be calked with by two points.

1. A line determined by two points on it is called a 'straight' 2. On any two points can be put one, but only one, straight, their 'join.'

Merriman and Woodward, Higher Mathematics, p. 70.

A characteristic of joint of j

psychol, an articular sensation; a sensation proceeding from the sense-organs distributed over the articular surfaces.

The joint-sensations of the fingers are less fine than those of the elbow. E. C. Sanford, Exper. Psychol., p. 32. joint-sense (joint'sens), n. In psychol., the sense whose end-organs (possibly Pacinian corpuscles) are distributed over the articular surfaces, and whose adequate stimulus is the friction of one articular surface against the

This 'group of [kinesthetic and static] senses . . . includes some senses whose existence or efficiency is disputed (innervation sense and muscle sense), and others whose independence has only of late been generally recognized (joint-sense and tendon-sense).

E. C. Sanford, Exper. Psychol., p. 25.

joint-vetch (joint'vech), n. Any plant of the

joint-water (joint'wâ"ter), n. Any clear fluid

joint-water (joint water), n. Any clear numer contained in a joint.

joisting (jois ting), n. [joist + -ing¹.] The system of joists supporting a floor, etc.

joker, n. 3. Figuratively, something concealed that wins the game; a trick under an innocent guise: as, a joker in a legislative bill.

jökul (yö'kul), n. [Icel. jökull: see ickle¹.] In Iceland, a snow-covered mountain; also, a gla-

cier.
jollify (jol'i-fi), v.; pret. and pp. jollified, ppr.
jollifying. [jolly + -fy.] I. trans. To make
jolly; intoxicate to a slight degree; make
'happy.'
II. intrans. To become 'jolly'; be exhilarated by drink.

rated by drink.

jollyl, a. 6. Slightly exhilarated by drink.—
7. Fine; pretty; great; big: used vaguely, often ironically: as, that's a jolly way of doing things; what a jolly fool he looked! a jolly shame. [Colloq.]

II. n. 1. Good-natured bantering talk intended to cheer a person or to induce him to comply with the wishes of the speaker.—2. A cheer: a hurrely

cheer; a hurrah.

On a suggestion to give him a jolly . . . they cheered the hero loud and long.

Mayhew, Great World of London, p. 46. N. E. D.

3. A sham bidder at an auction; a confederate of cheats.—4. A British slang name for a marine: not used with reference to United States marines.

Sez 'e, "I'm a Jolly — 'Er Majesty's Jolly — soldier an sailor too!"

'E isn't one o' the reg'lar Line, nor 'e isn't one o' the R. Kipling, Seven Seas, p. 152.

II. trans. 1. To ridicule; make fun of; chaff. -2. To be jolly or good natured to (a person), with the idea of cheering him up or of getting something out of him; flatter. [Slang, in both

extract.

A "jolly" is a somewhat similar contrivance, consisting of a revolving disk or wheel on which the mould is placed. This is used principally for making plates, sacrers, and articles termed "flat ware," its speed being regulated by a lever pressed by the foot of the workman.

E. A. Barber, Pottery and Porcelain of the U. S., p. 7.

ing to tradition, were carried on very lofty ships, and were set above the moon-sails and

pre-Glacial times. Nature, Dec. 24, 1903, p. 189.

pre-Gl bait of New Zealand.

jolter (jôl'tèr), v. I. trans. To jolt; transport with jolts.

II. intrans. To be transported with jolts.

jolter-headed (jöl'tèr-hed"ed), a. [jolterhead + -ed²] Having a stupid head; stupid;

Joly steam-calorimeter. See *calorimeter. Jonah, n. 2. In games of charce, a player who can never win anything; a very unlucky

John Bull interests you at home, and is all your subject. Come and see the *Jonathanization* of John.

Emerson, in Corres. of Carlyle and Emerson, II. 235.

jonkheer (yongk'hãr), n. [D., the original form of jonker, whence E. younker, q. v.] In South Africa, a young gentleman; a country squire; specifically, a member of the Volks-

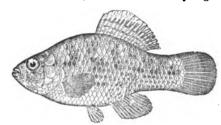
jonquil, n. 4. A light-yellow color much favored in the French mural decoration of the

favored in the French mural decoration of the eighteenth century.

joran (zhō-roń'), n. [Swiss F., < Jorat (G. Jurten), name of a mountain-chain adjacent to Lake Geneva.] The descending mountain-wind blowing toward Lake Geneva during the night, but rarely reaching the surface of the lake. Analogous winds are experienced on the shores of the deep-lying finger-lakes of New York State.

Jordanus (jórdanus) n. [NI. named for Jordanus] (jórdanus) n. [NI. named for

Jordanella (jôr-da-nel'ä), n. [NL., named for David S. Jordan, an American ichthyologist.]



Jordanella floridæ. (From Bulletin 47, U. S. Nat. Museum.)

A genus of fishes of the family Pacilisda, found Joule effect, Joule-Thomson effect. See *ef-in fresh waters of Florida.

Jordania (jôr-dā'ni-ā), n. [NL., named after David S. Jordan, an American ichthyologist.] A genus of cottoid fishes found on the northwestern coast of the United States.

Jordaniinæ (jôr-dā-ni-ī'nē), n. pl. [NL., < Jordania + -inæ.] A subfamily of cottoid fishes found on the northwestern coast of the

United States.

Jörden beds. See *bed1.

jorobado (hō-rō-bā'dō), n. [Sp. 'humpbacked,' (jorobo, humpback.] A common name applied to both Vomer setipinnis and Selene vomer, fishes of the family Carangidæ.

joseite (hō-sā'īt), n. [Sp. Pg. José (see def.) + -ite².] A bismuth telluride related to tetradymite. It is found near San José, Minas Geraes, Brazil.

Josephia (jō'ze-fin), a. [NL. (Robert Brown, 1809), named in honor of Sir Joseph Banks (1743-1820), a distinguished patron of botany.] A genus of dicotyledonous shrubs belonging to the family Proteaceæ. See Dryandra.

Josephine (jō'ze-fin), a. Pertaining to Joseph II. of Austria, or to the ecclesiastical reforms which he introduced. See *Josephinism.

Josephinism (jō'ze-fin-izm), n. [Josephine + -ism.] The policy of ecclesiastical reform introduced into Austria by Emperor Joseph II. (1780-90). It aimed at the establishment of a national church in immediate connection with the centralized state government and independence of Rome.

josephinite (jō'ze-fin-īt), n. [Josephine (see def.) + -ite².] An iron-nickel alloy (Fe₂Ni₅), similar to awaruite, which forms the metallic portion of pebbles found in placer gravel in Josephine and Jackson counties, Oregon.

"That 'something must be daring, startling, essentially histrionic, and calculated to make the Parisian 'badaud'—read 'booby,' unless the more up-to-date 'josser' be preferred—show his teeth."

Westminster Gazette, Dec. 1, 1898, p. 2.

Joturus (jō-tū'rus), n. [NL., < W. Ind. Sp. joware, jowari (jou-ä'rē), n. [Anglo-Ind., joturo, also hoturo, the name of this fish at Havana.] A genus of fishes of the family jower (jou'er), v. i. [Also jour, jowr; vaguely Mugilidæ, living in streams of tropical America.]

1. To scold grumblingly; growl.

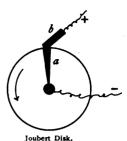
2. To speak in a muttering dialect.

Jonah (jō'nš), v. t. To play the part of a Jonah to; spoil the luck of; bring ill luck to. Jonah-crab (jō'nš-krab), n. A large crab, Cancer borealis, found off the Atlantic coast of North America.

Jonahanization (jon'a-than-i-zā'shon), n. The process of making (John Bull) similar to Brother Jonathan; Americanization. [Nonceword.]

John Bull interests you at home, and is all your subject. Come and see the Jonathanization of John.

Kmerson, in Corres. of Carlyle and Emerson, IL 285.



a, once in every revolution, and the instantaneous electromotive force
for the portion of the
cycle corresponding to
the position of the brush
is measured by means of
a condenser and ballistic
galvanometer, or by
means of some other suitable instrument placed
in circuit with the wires
+ and — By shifting
the brush successively
to different points on the periphery a series of
measurements is obtained from which a curve representing the cyclic fluctuations in the current generated
by the machine may be drawn. This method, which is
known as the step-by-step (or point-to-point) method, is
applicable only to cases in which the form of the curve
is constant and the wave-form repeats itself over and over
without sudden changes.

Joubert's process. See *process.

without sudden changes.

Joubert's process. See *process.
jough (jōch), n. [Manx jough = Gael. Ir. deoch,
Olr. deug, a drink.] Drink.

The tragical purpose usually lasted him over the short
mile and a hair . . [to] the Three Legs of Man, and
then it went down with some other troubles and a long
pint of Manx jough.

Hall Caine, The Deemster, xv.

jouled (jö'lad), n. [joule + -ad².] Same as *joule, 2. [Rare.]

joule, n. 2. A practical unit of work or energy equal to 107 ergs, 0.10197+ kilogram-meters, 0.2388+ calories, or 0.7376+ foot-pounds. It was formally adopted as a unit by the International Congress in Chicago (1893) and was legalized in the United States in 1894.

joulean (jou'le-an), a. Relating to the ratio jud. An abbreviation of judicial. of the units of heat and of work known as Judas-color (jö'das-kul"or), n. Is a joulean (jo'das-kul"or), n. Is a joule.

An abbreviation (a) of journal; (b) of

journey; (c) of journeyman.

journey; (c) of journeyman.

journal, n.—Yellow journal, a newspaper which is devoted to sensationalism; specifically, one which seeks to increase its circulation by appealing to the tastes, morals, and morbid curiosity of the lowest or least intelligent portion of the community.

journal, v. t. 2. To enter in a journal.

journalese (jér-na-lēs'), n. [journal + -ese.]

A style of writing fit only for rapid newspaper work; a style abounding in pretentions words.

An unknown hand threw in a copy of a Kansas paper containing some sort of an interview with Harvey. . . . The joyful journalese revealed that it was beyond question their boy, and it soothed Mrs. Cheyne.

R. Kipling, Captains Courageous, ix. journalistics (jer-ng-lis'tiks), n. The things pertaining to journalism; the profession of journalism.

journeyman, n. 3. In astron., a secondary clock in an observatory: used, generally, as an intermediary in the comparison of standard an intermediary in the comparison of sealural juage, n. S. In anymny, the hame of an accelerate clocks: more fully, journeyman clock. N. E. D. ficial fly.—Judge's certificate. See *certificate. judge, v. t. 6. To govern or regulate by right of authority, as the judges of Israel who held office between Joshua and the kings.

journey-workman (jer'ni-werk'man), Same as *journey-worker.

Jovellana (jō-ve-lā'nā), n. [NL. (Ruiz and judged Israel at that time.

Judged Israel at that time.

Judges iv. 4.

Pavon, 1798), named in honor of the Spanish statesman and patron of botany, Gaspar Melchor de Jovellanos (1744-1811).] A genus of judgmatic (juj-mat'ik), a. Same as judgdiectyledonous plants of the family Scrophumatical.

Jovellania (jō-ve-lā'ni-ä), n. [NL.] A genus of Paleozoic nautiloid cephalopods having curved shells with subtrigonal cross-section.

josh (josh), v. t. [Prob. in allusion to Josh for Jove's-beard (jövz'bērd), n. Same as Jupi-Joshua, regarded as a homely name.] To ter's-beard, especially the fungus Hydnum chaff; make fun of.

Barba-Jovis.

chaff; make fun of.

josser (jos'ér), n. [Origin obscure.] A booby.
See the extract.

"That something must be daring, startling, essentially histrionic, and calculated to make the Parisian badaud', read 'booby,' unless the more up-to-date 'josser' be preferred—show his teeth."

Barba-Jovis.

joviology (jō'vi-ol'ō-ji), n. [L. Jovis, gen., +-ology.] The study of the planet Jupiter; zenography. L. F. Ward, Pure Sociol., p. 69.

jowar (jou-är'), n. [Anglo-Ind., < Hind. jawar.]

The Indian millet, Andropogon Sorghum. Also called juar.

An abbreviation of Judge of Probate. jua (zhö'ä), n. [Brazilian.] A small Brazilian tree of the buckthorn family, Zizyphus Joazeiro. Its fruit is edible and forms an impor-tant fodder for cattle in times of drought, and its root-bark is used medicinally.

its root-bark is used medicinally.

juar (jö-ār'), n. [Hind.] Same as *jowar.

jubilancy (jö'bi-lan-si), n. Same as jubilance.

jubilarian (jö-bi-la'ri-an), n. [As jubilary +

-an.] One who celebrates his jubilee or fiftieth year in some state of life or profession;
specifically, a priest, a monk, or a nun who has
passed fifty years in the sacerdotal office or
the monastic life.

jubilated (jö'bi-lā-ted), a. In the Rom. Cath. Ch., having celebrated a jubilee or fiftieth year in the religious life.

jubilatory (jö'bi-lā-tō-ri), a. [jubilate + -ory.]

Jubilant jubilean (jö-bi-lē'an), a. [L. jubilæue, jubilee. + -an.] Relating to a jubilee; resembling the celebrations of a jubilee.

jubilee, n.—Diamond jubilee, the celebration of the sixtieth year; specifically, in Eng. hist., the celebration in 1897 of the sixtieth year of the reign of Queen Victoria.—Silver jubilee, the celebration of the twenty-fifth anniversary of an event, especially of a wedding.

jubilize (jö'bi-līz), v. i.; pret. and pp. jubilized, ppr. jubilizing. [L. jubilum, shout. or E. jubilee, + -ize.] To rejoice; exult; celebrate a inteller. iubilee.

Judas-color (jö'das-kul"or), n. Red or yellowish red: a name derived from the early belief that Judas Iscariot had red hair. See Judas-

There was a little pragmatical exciseman, with a hungry ace, sharp nose, red eyes, and thin, coarse, strangling hair of a yellow cast (what was formerly called Judas-colour), whom he pronounced to have been a ferret in his last tage.

Southey, Doctor, exxvii.

stage. Southey, Doctor, exvii.

Judeo-German (jö-dē'ō-jèr'man), a. and n.

German with Jewish elements. See Yiddish.

The great majority of Jews are unacquainted with Hebrew, which is a dead language; they speak, according to the country they inhabit, particular kinds of jargon, the most common of which is the Judeo-German.

Deniker, Races of Man, p. 424.

A style of writing fit only for rapid newspaper work; a style abounding in pretentious words and sudden colloquialisms and making crude bids for popularity.

A judge (in various phases); specifically, (a) a civil judge; (b) an ecclesiastical judge; (c) a civil judge; (b) an ecclesissical judge; (c) a juror.—Judex ordinarius, in civil law, a judge who has jurisdiction in his own right and not by appointment of another.—Judex pedaneus, in civil law, an inferior judge or magistrate appointed to hear small causes or such particular suits as night be assigned to him.—Judex questionis, in civil law, a judge or magistrate having criminal jurisdiction under the direct supervision of the pretor.—Judex selectus, in Rom. law, the judge selected by the pretor to try criminal cases.

Judg. An abbreviation of Judges.
judge, n. 9. In angling, the name of an arti-

Now Deborah, a prophetess, the wife of Lapidoth, she judged Israel at that time.

Judges iv. 4.

judgmatically (juj-mat'i-kal-i), adr. judicious manner; in the manner of a judge. [Colloq.]

judgment, n.—Foreign judgment, in law, the judgment of a court of a different and independent jurisdiction, whether in the same country or territory, or not.—Free judgment, in exper. psychol., judgment by absolute impression, without the intervention of a process of com-

parison.

Both introspection and the numerical results in our work point to the form of discrimination which we may term free judgments (as opposed to 'bound'), — the kind commonly given in ordinary life, when we speak of 'a heavy book' or 'a tall man,' etc.

Amer. Jour. Psychol., XII. 69.

Amer. Jour. Psychol., XII. 69.

Judgment book, in law, a book, required to be kept by the clerk of a court, which contains an index of the judgments filed in the court.—Judgment nisi, in low, a judgment entered upon the record of a suit which is to become absolute unless some condition required by law be complied with, or unless an order to the contrary be made by the court within a specified time.—Judgment

of ouster, in law, a judgment in quo warranto proceedings which determines a right to a public office and puts out an incumbent who holds the office without right.—
Judgment recovered, in law, a plea in har of an action that a former judgment has been entered in which the plaintiff's rights have been once judicially determined.—
Last judgment, in theol., the judgment expected at the last day (doomsday), when all mankind shall appear at the judgment-seat of God, the good be chosen, and the evil be condemned to punishment.—Perceptual judgment, the judgment that a present percept has a perceived character.—Reliability of judgment, in Stumpf's psychophys., the degree of confidence that may be placed by others in the truth or accuracy of a judgment as expressed. Objective reliability is identical, according to the form of the judgment, either with degree of probability or with degree of accuracy, that is, of approximation to truth. It is conditioned upon two general factors: sensitivity, the degree in which sensation corresponds to exciting stimulus; and subjective reliability, or the reliability of judgment in the apprehension of sensations as such, without regard to their correct reference to external objects. E. B. Tuchener. Exper. Psychol., II. ii. p. clxi.—To perfect judgment, to record or enter judgment and docket the record.

judication (jö-di-kā'shon), n. [L. judicatio(n-),

judication (jö-di-kā'shon), n. [L. judicatio(n-), < judicare, judge.] The action of judging; judgment.

judicator (jö'di-kā-tor), n. [NL. judicator, < L. judicare, judge.] One who judges; a judge. L. judicare, judge.] One who judges; a judge. judicatores terrarum (jö'di-kā-tō'rēz te-rā'-rum). [L., 'judges of lands.'] In Eng. law, certain tenants who, by a custom in Chester, held their tenures by performing judicial duties. From their judgment a writ of error could be obtained from the Court of Chancery, and in case of error an order from the latter court was given for its correction. The judicatores terrarum then had one month in which to reconsider the matter, and if during that time they failed to reform the judgment, the matter came by writ of error to the King's Bench leid the judgment erroneous, the judicatores terrarum forfeited £100 to the king, according to the custom. judicatorial (jö'di-kā-tō'ri-al), a. [LL. judi-

judicatorial (jö'di-kā-tō'ri-al), a. [LL. judi-catorius, judicatory, + -all.] Pertaining to a iudicato

Judicial documents. See *document.

judiciality (jö-dish-i-al'i-ti), n. [judicial + -ity.] Judicial character.

judicialize (jö-dish'al-lz), v. t.; pret. and pp. judicialized, ppr. judicializing. [judicial + -ize.]
To arrive at a correct judgment upon; treat in a judicial manner.

judicio sisti (jō-dish'i-ō sis'tī). [L., 'to appear for trial': see *judicium and sist.] In Scots law, an undertaking, or security, in which the surety becomes responsible that the principal will abide within the jurisdiction of the court and appear for trial (judicio sisti) when required. In the usual form the principal was bound to appear and answer any suit that should be brought within six months.

judicium (jö-dish'i-um), n. [L., a trial or sentence by a judge, a judgment, (judex, a judge: see judicial.] In Rom. law, a proceeding to obtain the decision of a judge upon an issue of law.—Judicium capitalo, in Eng. law, sentence of death.—Judicium Del. Same as judgment of God (which see, under judgment).—Judicium parium judgment of one's peers), in Eng. law, trial by jury.—Judicium vitæ amissionis. Same as *judicium capi-

Judy-cow (jö'di-kou"), n. A ladybird. [Local,

juey (hö'ā-ē), n. A large land-crab, Cardisoma guanhumi. [Porto Rico.]

guanhumi. [Porto Rico.]

jug¹, n.—A. R. jug, a salt-glazed stoneware vessel, bearing the letters A. R. (Anna Regina) in a medallion on the front, made in England and Germany during the reign of Queen Anne.—C. R. jug, a salt-glazed stoneware vessel, bearing the letters C. R. (Carolus Rez) in a medallion on the front, made in England during the reign of Charles II.—Rilsworth jug, a pitcher made in Trenton, New Jersey, in 1861, with relief decorations illustrating the shoot.

with relief decorations illustrating the shooting of Colonel E. E. Ellsworth at Alexandria, Virginia, at the conmencement of the Civil War.—G. R. Jug, a salt-glazed stoneware vessel, bearing the letters G. R. (Georgius Rez), usually accompanied by a crown, made in England and George II.—Hound—handle jug a pitcher or jug of Rockingham or brownplazed pottery, with



Hound-handle Jug, of about 1850. glazed pottery, in the Pennsylvania Museum, Philadelphia.

scenes in relief and a handle in the form of a dog with forefeet resting on the top: first made at the Jersey City

Pottery from a model by Daniel Greatbach, and later reproduced at several other American potteries. Also called hunting-jug (which see).—John Gilpin jug, a jug, produced about 1825 in England, with embossed designs illustrating Cowper's ballad of John Gilpin.—Tam o' Shanter jug, a pitcher or jug with relief designs illustrating Burns's poem "Tam o' Shanter," first produced at Hanley, England, in 1835. They were made in various sizes and in at least two colors, gray and light blue.—W. R. jug, a salt-glazed stoneware vessel bearing the letters W. R. (Withchmus Rex), in a medallion on the front, made in England, Holland, and Germany during the reigns of William III. and William IV.

ug⁴ (jug), n. [Hind. jag, a religious ceremony, the world, also jagat, < Skt. jagata, the world.]
An act of worship by a Brahman supposed to give him preternatural power.

jugal. I. a.—Jugal bar. Same as zygoma.—Jugal

cup. See *cup.
II. n. 2. Same as suborbital (b).

Synonymy of the Fish Skeleton, p. 520.

jugale (jö-gā'lē), n. [NL.: see jugal.] 1.

Same as jugal point (which see, under craniometry).—2. In ichth., a dermal bone situated in front of the eye and connected with the suborbitals; a preorbital.

Jugatæ (jö-gā'tē), n. pl. [NL., fem. pl. of jugatus, yoked: see jugate, a.] A suborder of lepidopterous insects proposed by Comstock to include the families Hepialidæ and Micropterygidæ, which have the fore and hind wings

connected by a jugum or yoke.
jugate, a. II. n. One of the Jugatæ.—Littlewinged jugate, any member of the lepidopterous family
Micropterygidæ of Comstock's suborder Jugatæ.

['Judge of instruction,' that is, a magistrate who collects and formulates the preliminary information.] In French law, an officer appointed to receive the complaints of parties injured by criminal offenses, and thereupon to summon and examine witnesses and draw up the forms of accusation.

jug-fish (jug'fish), n. A fish, Lagocephalus men. Geog. Jour. (n. U. S.), All. apachycephalus, belonging to the family Tetraodontidæ, found from the West Indies to system of beliefs and practices relating to the juju.

jugglement (jug'l-ment), n. [juggle1 + ment.]
Jugglery; a particular instance of jugglery.
jug-handled (jug'han'dld), a. Placed, like the

handle of a jug, on one side; hence, one-sided. [Slang.]

French writers realize that the alliance with Russia is a jug-handled arrangement by which France holds the handle and Russia obtains all the outpouring.

The Forum, Jan.-March, 1904, p. 342.

juglandaceous (jö-glan-dā'shius), a. Belong-

Jugiandaceous (jö-glan-dā'shius), a. Belonging to the walnut family, Juglandaceæ.

Juglandales (jö-glan-dā'lēz), n. pl. [NL. (Engler, 1892), \(Juglans \) (Jugland-) + -ales.] An order of dicotyledonous plants containing the single family Juglandaceæ (which see).

juglandic (jö-glan'dik), a. Noting an acid, same as *juglande.

juglandine (jö-glan'dik)

juglandine (jö-glan'din), n. [L. juglans (jugland-), walnut, + -ine².] A compound, supland-), walnut, + -ine².] A compound, supposedly an alkaloid, contained in the green shell or leaves of the walnut-tree. It rapidly turns brown on exposure to the air and consequently is used as a hair-dye. It is also employed in medicine for certain cutaneous and scrofulous diseases.

2. A name sometimes given to juglone.

juglolidine (jö-glol'i-din), n. [L. jugl(ans), walnut, + -ol + -id + -ine².] A colorless crys-

talline compound, $C_6H_3 \langle \frac{CH_2CH_2CH_2}{C_3H_2CH_2CH_2} \rangle N$,

prepared by the action of aniline on 1,3-chlor-brompropane. It melts at 40° C., boils and partly decomposes at 280° C., and is unstable. The vapor causes sneezing.

juglone (jö'glōn), n. [L. jugl(ans), walnut, + one.] A vellowish- or brownish-red compound, HOC₁₀H₅O₂, prepared by the oxidation of a-hydrojuglone from the green parts of the walnut-tree; a-hydroxynaphthoquinone, nucin, or regianin. It crystallizes in needles or prisms and melts at 151-154° C.

juglonic (jö-glon'ik), a. [juglone + -ic.] Noting an acid, a yellow crystalline compound, HOC₆H(NO₂)₂(COOH)₂, formed by the action

of nitric acid on juglone. Also called dini-

of nitric acid on juglone. Also called dinitrohydroxyphthalic acid.
jugomaxillary (jö-gō-mak'si-lā-ri), a. [L. jugum, yoke, + maxilla, maxilla, + -ary.]
Same as malarimaxillary. Syd. Soc. Lex.
jugonasal (jö-gō-nā'zal), a. [L. jugum, yoke, + nasus, nose, + -al'.] In anthrop., relating to the jugal points and the nose.—Jugonasal arc, jugonasal cord, the arc and cord passing over the nose from one jugal point to the other.
jugulate, v. t. 2. To arrest suddenly, as the progress of a disease, by therapeutic measures.
jugum, n. 3. In the Brachiopoda, such as Spirifer, Cyrtina, etc., a part of the shelly internal supporting skeleton which joins the bases of the two spirally coiled ribbons or bases of the two spirally coiled ribbons or spiralia.—4. A small lobe projecting back-ward from the basal inner margin of the fore wing in the Jugatæ, which extends under the costal margin of the hind wing, holding the pair together.

juice-canal (jös'ka-nal'), n. See *canal1.

juice-root (jös'rūt), n. Same as Spanish juice (which see, under juice).
juice-wood (jös'wūd), n. Same as *juice-root.
juicy, a. 2. In oil-painting, a word used to express a brilliant liquid quality of technic. [Slang.]

They are painted on smooth grounds, with a thick juicy masto, detail being indicated rather more freely than a his second manner.

C. J. Holmes, in Burlington Mag., IV. 73.

jugate (jö'gāt), v. t.; pret. and pp. jugated, ppr. jugating. [L. jugare, yoke: see jugate, a.] To join or yoke together; couple together. Bailey, 1721.

juga d'instruction (zhüzh dan-strük-syon).

L'Judge of instruction (thet is a month of the present of the p veneration; a charm; a fetish; also, an observance of mysterious significance like the taboo: used in relation to the religious ideas of the negroes of West Africa.

Juju-house (jö'-jö-hous), n. A fetish-house.

Their ideas are considerably more advanced than those of the West Coast of Africa generally. There are no juju-houses on the plateau [Nyasas-Tanganyika plateau], no juju ceremonies, no priests nor medicinemen.

Geog. Jour. (R. G. S.), XIII. 588.

Brazil.

Juggernaut (jug'er-nat), v. t. To crush as if by Juggernaut.

jugins (jug'inz), n. [A homely use of a homely English surname.] A dull fellow; a chump.

English surname.] A dull fellow; a chump.

Ingglement (jug' mont) a finggled mont.]

The jugin to the ju Game of Golf, p. 39.

Jul. An abbreviation of July.

Julian, a. 2. In geol., noting a group of the pelagic Triassic system in Europe and Asia, forming the middle part of the Carinthian stage preceded by the Cordevolian group and followed by the Tuvalian. In the Mediterranean Triassic province it is represented by the Raible beds

ranean Triassic province it is represented by the Raibl beds.

II. n. The Julian group.

Julidæ (jö'li-dē), n. pl. [NL., \ Julus + -idæ.]

A family of myriapods of the order Diplopoda, having from 30 to 70 or more rings. The body is more or less cylindrical and smooth, with a glistening surface. The legs are numerous and short. The members of this family are sluggish in movement, and when disturbed or at rest coil the body in a spiral. They feed largely upon earthworms, snalls, and other small creatures, and sometimes damage garden and field crops. Their eggs are deposited in the ground. They are known also as culturons or gally-worms. Sometimes written Iulidæ.

Jul. Par An abhvoriation of Lulium.

Jul. Per. An abbreviation of Julian period. Jul. Per. An abbreviation of Julian period.
Julus (jö'lus), n. [NL. (Linnæus, 1748), prop.
Iulus (cf. L. iulus, catkin), < Gr. lov\lambda_c, down.]
An old genus of myriapods, typical of the
family Julidæ, containing many of the forms
known as wireworms. See wireworm, 2.
jumble-sale (jum'bl-sāl), n. A sale of secondhand articles of every description for the

benefit of the poor; a rummage sale.

umbo¹, n. 2. Any large, cumbersome machine; in particular, a home-made windmill built for lifting water for irrigation on the

Great Plains.
jumbo² (jum'bō), n. [Also jumby; short for mumbo-jumbo.] In the West Indies, same as mumbo-jumbo.] In the West Indies, same as mumbo-jumbo. In the form jumby it is used in various compounds.

jumboism (jum'bō-izm), n. $[jumbo^1 + -ism.]$ Admiration of bigness, or for things or enterprises remarkable only for their size. [Colloq.] jumbuck (jum'buk), n. [A native Australian name, thus explained: "The word 'jumbuck' for sheep appears originally as jimba, jombock, dombock, and dumbog. In each case it meant

the white mist preceding a shower, to which a flock of sheep bore a strong resemblance. It that it be held firmly and fearlessly by a sufficient number of strong men. Firemen are drilled in its use.

Sydney Bulletin, April 18, 1896 (quoted in E. E. Morris, Austral English).] A sheep.

[Colloq., Australia.]

jumby (jum'bi), n. Same as *jumbo².

Jumby beans. See *bean¹.

that it be held firmly and fearlessly by a sufficient number of strong men. Firemen are drilled in its use.

Encyc. Brit., XXVIII. 406.

jumping-up (jum'ping-up'), n. The process of upsetting or thickening the end of a rod by hammering it in the direction of its length when it is heated.

jumping-weevil (jum'ping-we'v|), n. Any

jumgle-fowl, Gallus somerrati, a species which has the

jumby-bead (jum'bi-bēd), n. See *jumbo².]

1. In the West Indies, a seed of the bead-, necklace-, or jumby-tree, Ormosia monosperma. These seeds are nearly globular, half an inch in diameter, very hard, and in color a brilliant scarlet with a large black spot. They are the largest of the various kinds of coral beans often brought by travelers from the West Indies.—2. Same as imble-bead.

Indies.—2. Same as jumble-bead.

jumby-tree (jum'bi-trē), n. [See *jumbo².]

The bead- or necklace-tree, Ormosia monosperma, of the West Indies, which yields red and black seeds called jumby-beads. See

*jumby-bead and coral bean, under bean.
jumentous (i\(\beta\)-men'tus), a. [L. jumentum, a
beast of burden, + -ous.] Relating to or
characteristic of a beast of burden: applied to

characteristic of a beast of burden: applied to urine having a peculiar odor.

jumpl, v. I. intrans.—To jump to a conclusion, to arrive at a conclusion illogically and without consideration; frequently, to arrive at an erroneous conclusion.

II. trans. 9. To estimate in the gross, as weight.—10. To get on or off (a train or boat in motion) by jumping: as, he jumped the express as it left the station. N. E. D.—11. In quarrying, to drill by means of a jumper or hand-drill.—To jump a ship, to desert from a vessel.—To jump on or upon, to attack violently, suddenly, or with vituperation. [Slang.]—To jump the masts, of a vessel, to lose its spars, as in a heavy sea, or upon striking the bottom with great force.

jumpl, n. 6. pl. Nervous twitching of the body; delirium tremens.—To make a pier-head jump,

delirium tremens.—To make a pier-head jump, to desert a ship as soon as it hauls alongside a dock. jump-drill (jump'dril), n. A form of drill for boring into rock of which the bar is lifted by two men and then forced downward, so that it has a jumping motion. The bar is often made more massive by a lump or enlargement of section above where it is expected to enter the ground: used in rough work, or where straight holes are not essential.

work, or where straight notes are not essential.

jumper! n., 5. (f) in telephony, a piece of wire or
other conductor used to make temporary connection between points on the switchboard of an exchange. (g) in
elect., a temporary abunt or short-circuit put around a
source, lamp, or receptive device on a series-connected
circuit, to enable it to be readily removed or repaired.

Houston, Elect. Dict.

8. One who is registered and votes fraudulently in several places. [Polit. slang.]

There are more 'jumpers' than there were two years ago. These 'jumpers' vote in widely separated parts of the city.

N. Y. Tribune, Oct. 27, 1908.

9. One who is affected with the jumping-disease.— Ranking jumper, a wood-shod sled upon which tan-bark is hauled.

jumper-stays (jum'per-staz), n. pl. Extra stays leading from the lower mastheads to the

sides of a vessel, where they are set up with tackles. Also known as preventer stays.

jumping (jum'ping), n. In ceram., the staining of the glaze on the under parts of pieces of ceramic ware: a potters' term. This effect is sometimes noticed on pieces decorated with flow blue celes. flow-blue color.

jumping-beetle (jum'ping-bē'tl), n. The flea-beetle; specifically, the turnip flea-beetle of England, Phyllotreta nemorum.

jumping-disease (jum'ping-di-zēz'), n. A nervous affection occasionally observed, especially in woodsmen in Maine, sufferers from which involuntarily jump, regardless of where they are or where they may land, as in response to a sharp command.

jumping-hare, n.—Cape jumping-hare. Same as jumping-hare, Pedetes cafer.

jumping-jack (jum'ping-jak), n. A toy consisting of a human figure which is caused to jump, dance, or go through various contortions, by pulling a string attached to its limbs.

jumping-Johnny (jum'ping-jon'i), n. A machine for cutting rolled metal bars or plates into equal lengths. It has an automatic stop which comes back to its place quickly after being displaced to allow a piece to be taken from the machine. [Eng.]

jumping-net (jum'ping-net), n. A stout net usually about 12 feet in diameter, having a heavy cord or rope around its edge: used for catching people who fall or jump from burning buildings.

The Jumping Net is made of stout tarred hemp rope, and is about 10 to 12 feet in diameter. It is essential that it be held firmly and fearlessly by a sufficient number of strong men. Firemen are drilled in its use.

Encyc. Brit., XXVIII. 406.

jumping-weevil (jum'ping-we'vl), n. curculionid beetle of the genus Orchestes.

jump-jointed (jump'join'ted), a. Flush-jointed: said of a carvel-built vessel.
jump-spark (jump'spärk), n. An electric spark which jumps a gap in a previously open circuit: frequently used for igniting the charge in an internal-combustion engine.

charge in an internal-combustion engine.

jump-stroke (jump'strōk), n. 1. A stroke in
billiards by which the ball is caused to jump
or rebound. There are two ways of accomplishing
this: one is by thrusting the cue-tip under the ball,
which in effect is lifted rather than bounced at the outset, though it will jump later; the other is by a downward blow of the cue, held obliquely, which drives the
ball against the bed, whence it rebounds once or oftener.
Indention of the cloth is a probable penalty. The stroke
is now seldom used.

2. In croquet, a stroke, played in sending a ball through a wicket at an oblique angle, by which the ball is made to strike the further wire of the hoop.
unc. An abbreviation of junction.

inne.

juncite (jung'sit), n. [Juncus + -ite².] A fossil plant supposed to belong to the rush, Junor closely resembling it.

cus, or closely resembling it.
junco¹, n. 1. Several species of these little birds are
now recognized, in place of the so-called varieties.—Pinksided junco, Junco annectens, a species which has
pinkish sides: from the mountains of Colorado, Idaho, etc.
—White-winged junco, Junco aikeni, a rather large
species from Colorado, having the wings marked with
broad, white bara.

junco² (hön'kō), n. [Mex. Sp. use of Sp. junco,
a rush: see junk¹.] A thorny shrub or small
tree. Kaperlinia spinosa of southwestern Teyes.

spines.—Junco family, the plant family Kæberliniaceæ. See *Kæberliniaceæ.

Juncoides (jung-ko'i'dēz), n. [NL. (Adanson, 1763), < Juncus + -oides, having a resemblance to the genus Juncus.] A genus of monocotyledonous plants of the family Juncaceæ. See

junction, n.—Interlamellar junction, in the gills of bivalve mollusks, one of the vertical bars of tissue which extend between the two lamells and divide the interven-ing space into distinct compartments called the water-tubes, and which also cause the appearance of vertical

junction-box, n. 2. In elect., the appliance used to connect underground or concealed electric conductors.

junction-plane (jungk'shon-plan), n. A surface produced by the contact of contrasted geological formations.

The Scottish thrust-planes are eroded like ordinary inction-planes between strata.

Geikie, Text-book of Geology, p. 1370.

junction-valve (jungk'shon-valv), n. An ordinary steam- or water-valve which joins two

juncture, n. 4. In geom., either the instantaneous union of a collection of objects which are just moving in coincidence of place, thereafter to be for some lapse of time one object, or the instantaneous loss of one or more dimensions by the gradual shrinkage of a body, this smaller dimensionality lasting through a period of time.— Degenerative juncture, that mode of juncture which consists in the diminution of the dimensionality of a moving object, as when a filament shrinks to a particle and remains such.— Ordinary juncture, that mode of juncture which consists in the arrival at a common place of two or more objects.

June-beetle, n. Same as June-bug.

June-bug, n.—Western green June-bug, Allorhina mutabilis, a species resembling the southeastern Junebug, A. nitida, and occurring in the southwestern United States where it sometimes does considerable damage to ripe peaches.

June-flower (jön'flou"er), n. The Canada vio-June-nower (jon nou"er), n. The Canada vio-let, Viola Canadensis, which blooms in June.
June-grass, n.—Prairie June-grass, a bunch-grass, Kæleria cristata, which ranges from Pennsylvania to Texas and California, and is also found in the Old World. It is of some value for grazing, especially on account of its earliness, and on irrigated ground it makes excellent hay. See Kæleria.

Jungermanniales (jung-ger-man-i-â'lēz), n. pl. [NL. (Engler, 1892), < Jungermannia + -ales.] An order of cryptogamic plants of the class Hepaticæ, coextensive with the family Jungermanniaceæ, and therefore including both the anacrogynous and the acrogynous scalemosses. It embraces 134 genera, of which 18 belong to the *Anacrogynæ and 116 to the *Acrogynæ (see these terms). In Schiffner's revision, adopted by Engler, the genus Jungermannia is no longer recognized, being divided up among a large number of genera belonging to different tribes, but especially to the tribes Lejeunceæ and Frullanieæ.

jungle-fowl, n.—Gray jungle-fowl, Sonnerat's jungle-fowl, Gallus sonnerrat, a species which has the neck-hackles black, edged with gray, each with a spot at the end resembling a spot of yellow scaling-wax: found



Sonnerat's Jungle-fowl (Gallus

in western, southern, and central India.—Javan jungle-fowl, G. varius, a very dark species, with the edge of the comb entire and a single wattle on the under side of the threat.—Sonnerat's jungle-fowl. See gray *jungle-fowl.

jungle-hen (jung'gl-hen), n. Same as jungle-

jungle-rice (jung'gl-rīs), n. See *ricel.

a rush: see junk!.] A thorny shrub or small tree, Kæberlinia spinosa, of southwestern Texas jungle-mood (jung'gl-wid), n. [East Indian and northern Mexico, with numerous almost leafless brauches, the branchlets ending in spines.—Junco family, the plant family Kæberliniacææ.

Junimist (yö'ni-mist), n. [Rum. Junimea, name of a literary society, + -ist.] In recent Rumanian history, a member of the party of young conservatives. moderately liberal in views and an offshoot from the old conservatives and an offshoot from Junimea, a literary openintion.

literary association. Another party [in Rumania] which now attracted considerable attention was that of the Junimists, or Young Conservatives. The name was taken from a literary society formed in Jassy in 1874 by Messrs P. Carp, Rosetti, and Maiorescu, and transformed into a political association in 1881. Their programme for home affairs involved the amelioration of the position of the peasantry and working classes, whose progress they considered had been overlooked, the irremovability of the magistracy, and a revision of the communal law in the sense of decentralization.

[MI. invisions to the

juniorate (jö'nyo-rāt), n. [ML. junioratus, the status or benefice of a junior cleric, < L. junior, a junior: see junior and -ate³.] The status of a junior; specifically, in the Society of Jesus, a two years' course devoted to the review of classical studies preparatory to entering upon the course of philosophy; also, the heave where such a course is given. the house where such a course is given.

the house where such a course is given.

juniper, n. 2. The American larch, Larix laricina.—3. The black spruce, Picea Mariana.

—Alligator-juniper or checkered-bark juniper, the thick-barked juniper, Juniperus pachyphisa, found in high altitudes from Texas to Arizona and Mexico. The names allude to the checkered bark, which is sometimes nearly four inches thick.—California juniper, Juniperus Californica, of California and Nevada.—Checkeredbark juniper. Same as alligator-*juniper.—Creeping juniper. (a) The savin or shrubby red cedar, Juniperus Sabina. (b) The ground-hemlock, Taxus Canadensia.—Drooping juniper, Juniperus Juniperus Juniper, Juniperus Juniper swamp, See *juniper-swamp.—Native juniper, Juniperus Virginiana.—Western juniper, Juniperus cedentalis, the common juniper of the western United States, especially of mountainous districts and foot-hilla attaining its maximum development in the Sierra Nevadas at from 6,000 to 10,000 feet altitude.

juniperin (jö'ni-pèr-in), n. [juniper + -in²]

juniperin (jö'ni-per-in), n. [juniper + -in².]
A black resinous compound obtained from juniper berries.

juniper-pug (jö'ni-per-pug), n. A British collectors' name for a European geometrid moth, Tephroclystia sobrinata.

juniper-swamp (jö'ni-per-swomp), n. In the southeastern United States, a swamp, or more commonly an area in a large swamp, in which the white cedar, Chamæcyparis thyoides, there called juniper, is the dominant tree. In the Dismal Swamp these areas are distinguished from the *gum-swamps. See juniper. juniper-water (jö'ni-per-wa'ter), n. An a matic cordial flavored with juniper-berries. An aro-

juniper-worm (jö'ni-per-werm), n. The larva of an American geometrid moth, Syssaura infensata, which feeds on the foliage of the juni-

junk-board (jungk'bord), n. A heavy and close-textured kind of millboard.

Owing to the weight of the junk-board, and the extreme irregularity of form of certain discs, it is better to let the disc rotate in the horizontal plane.

E. B. Titchener, Exper. Psychol., I. ii. 350.

Junker calorimeter. See *calorimeter. junket2, n. 1. (b) Milk artificially coagulated with rennet.

junk-hook (jungk'huk), n. A hook used for extracting the junk from the head of a whale. junk-wind (jungk'wind), n. A south or southwest monsoon wind of Siam, China, and Japan, favorable for sailing junks.

Junonia (jö-nō'ni-ā), n. [NL. (Huebner, 1816†), (L. Juno: see Juno.] A genus of butterflies of the family Nymphalidæ, of wide geographic distribution, occurring in India, Africa, China, the West Indies, and North and South America. The commonest species in the United States is J. cænia, which occurs also in Central America.

junr. An abbreviation of junior.

jupe, n. 2. A skirt: generally used in fashion

juramentado (hö'rä-mān-tä'dō), n.; pl. juramentados (-dōs). [Sp., ppr. of juramentar, make oath, < juramento, < L. juramentum, an oath: see *juramentum.] One who has taken an oath; specifically, a Mohammedan Malay or Moro who has sworn to die in killing as many persons, especially Christians or enemany persons, especially Christians or enemies, as he can. Jour. Amer. Folk-lore, July—Sept., 1902, p. 147.

juramento (hö'rä-mān'tō), n. [Sp., < L. juramentum, an oath: see *juramentum.] An oath or declaration under oath.

juramentum (jö-ra-men'tum), n. [L., < jurare, swear: see jurat! jura! In civil lum an oath

swear: see jurat¹, jury.] In civil law, an oath.

—Juramentum calumnis ['oath of calumny], in civil
and canon law, an oath required of parties to an action,
and of the attorneys of the parties, that in prosecuting or
defending the action they are not influenced by malice,
but believe in the justice of their cause.

jurata (jö-rā'tā), n. [ML.: see jury.] In old

Juratea (Juratea), n. Eng. law, a jury.
juratorial (jö-rā-tō'ri-al), a. [As juratory +
-all.] Pertaining to a jury: as, juratorial privilege

Jura-Trias (jö'rā-trī'as), n. In geol., a rock series which is regarded as representing, in part or whole, deposits of both Triassic and Jurassic time (as in the case of the Red or Newark sandstones of the Connecticut valley, New Jersey, Pennsylvania, and southward), or in which the distinction of age is obscure (as in the Burrum and Ipswich formations of Queensland).

jure (jör), v. t. [A back-formation from juror.]
A mocking word in the passage quoted, conveying a vague threat.

You are Grand Jurors, are ye? We'll jure ye, i' faith. Shak., 1. Hen. IV, ii. 2.

jurisp. An abbreviation of jurisprusence. jurnal, jurnalism, jurnalist. Simplified spellings of journal, journalism, journalist. jurney, n. and v. i. A simplified spelling of

jurubeba (zhö-rö-bā'bä), n. [Braz.] paniculatum, a medicinal plant of the night-shade family, much used in Brazil, especially for affections of the liver and spleen.

JUTY, n.—Common jury. See trial jury, under jury.—Hung jury, in law, one that falls to agree upon a verdict.—Jury of the vicinage, a jury drawn from the county where the trial is to be held. In former English law it meant a jury drawn from the immediate neighborhood, hence its name.—To poll a jury, to call upon each jury individually to know if the verdict given by the foreman is the verdict of each one.

jury-coat (jö'ri-köt), n. A substituted coat, or one used for the occasion. See jury-mast, jury-rudder.

The skipper winked his Western eye, and swore by a China storm:—

honour warm.'

R. Kipling, The Three Captains, in Barrack-room Ballads.

jury-mast, n. 2. In surg., a metal rod attached to a plaster jacket and supporting a sling in which the head rests by the chin and occiput: employed to relieve the spine of the weight of the head in caries of the cervical or upper dorsal vertebræ.

which fills the place of one that has been blown away or damaged; a sail that best suits certain conditions that are out of the ordinary. jury-wheel (jö'ri-hwel), n. A circular revolving box in which the names of persons subject to be drawn to serve as jurors are placed to be mingled and then drawn out by

volving box in which the names of persons subject to be drawn to serve as jurors are placed to be mingled and then drawn out by lot.

Jus? n.—Juris et de jure, in law, of right and by right. A presumption juris et de jure is a conclusive presumption of law or fact.—Jus abutendi [right of using up], in Rom. law, the right of absolute dominion over property.

Jus actus [right of diviving], in Rom. law, a servitude by which a right of passage for carriages or cattle over the servient estate was given.—Jus alterm, in since that the right can be absolutely exercised without reference to another.—Jus Efilanum, a body of laws, published about 200 g. o. by Sextus Ellus, consisting of three parts: the first two related to the law of the twelve tables and their interpretation.—In sequence, the laws and exercision of the laws as distinguished from the law of the right to relate the first two related to the law of the twelve tables and their interpretation.—In sequence, the laws and customs of the West Saxons during the time of the heptachly.—Jus anglorum, in Eng. law, the laws and customs of the West Saxons during the time of the heptachly.—Jus agusdanctus, in civil law, a servitude or easement by which the owner of the dominant estate had the right to resceive water over the land of the servient estate.—Jus aqusdanctus, in civil law, a servitude by which the owner of the dominant estate had the right to resceive water from another's well.—Jus bellum dioendi, in international law, the right of declaring war.—Jus civitatis, in Rom. law (b) The local law of Rome. (c) Private as distinguished from public or international law.—Jus closaes, in civil law, a servitude or easement by which the owner of the dominant estate has a right to have the waters which fall upon it conducted over the land of the servient estate.—Jus deliberandi, in law, right of deliberation; a time given to an heir in which to have the waters which fall upon it conducted over the land of the servient estate.—Is deliberandi, in law, right of the right of a jusi (hö'sē), n. 'Same as *husi.

usilk (yöz'lik), n. [Turk. *yuzliq, < yuz, one hundred, + -liq, an adj. suffix.] A Turkish coin: (a) the white juslik, of the value of 100 paras; (b) the jellow juslik or 100-piaster gold piece; the lira Turca.

'They ha' rigged him a Joseph's jury-coat to keep his Jus. P. An abbreviation of Justice of the Peace. jussion (jush'on), n. [L. jussio(n-), order, (jubere (pp. jussus), order, command.] Ordering; commanding; command.—Letters of jus-sion, letters sent by the king of France ordering the Parliament to register ordinances. Just. An abbreviation (a) of Justice; (b) of

Justinian,

Justinian.

justice, n.—Distributive justice, in law, that which governs the distribution of rewards and punlahments, assigning to every man the reward his merit deserves or proper punlahment for his crimes: in contradistinction to commutative justice, or justice in barter and exchange generally.—Justice of oyer and terminer, a justice of the court of oyer and terminer. See court of oyer and terminer, under oyer.—Justices of the pavilion, in Eng. law, justices of a certain plepowder court established by the Bishop of Winchester at the fair of St. Glies Hills during the reign of Edward IV.—Praventive justice, in law, justice administered with a view to preventing a wrong or crime, as by injunctive relief, putting under bonds to keep the peace, etc.
justiceman (just tis-man), n. In mining, a check weighman acting on behalf of the miners. Barrowman, Glossary. [Scotch.]
justice-weed (jus'tis-wed), n. Either of two American species of Eupatorium, E. leucolepis and E. hyssopifolium.

and E. hyssopifolium.
justifier, n. 2. In printing: (c) The wooden
wedge ouce used in old forms of hand-press to

wedge once used in old forms of hand-press to keep together parts about to separate.

justify, v. t.— Justifying velocity. See *velocity.
justo (zhōs'tō), n. [Pg.] A gold coin of John II.
of Portugal (1481-95), apparently equal to from 540 to 600 reis. The name was suggested by the reverse legend "Et justus ut palma florebit."
justo-major (jus'tō-mā'jor), a. [Short for NL. pelvis æquabiliter justo-major, 'a pelvis uniformly larger than normal.'] In obstet., a term employed to denote a pelvis of normal shape, but the diameters of which are greater than normal. normal.

justo-minor (jus'tō-mī'nor), a. [Short for pelvis æquabiliter justo-minor, 'a pelvis uniformly smaller than normal.'] In obstet., a term employed to denote a pelvis of normal shape but unusually small.

jute², n.—China jute, the fiber of Abutilon Abutilon, cultivated in China. See American jute, under jute².

Juvavian (jö-vā'vi-an), a. and n. [G. Juvavisch, ML. Juvavum or Juvavia, name of Salzburg.]

Taking name from the old Juvavum. See the Taking name from the old Juvavum. See the etymology.—Juvavian province, in geol., a province of the Alpine Trias occupying the northeast slopes of the Alps and extending into Hungary. It is characterized by its extensive ammonoid cephalopod fauna, comprising species of many genera.—Juvavian stage, in geol., a stage of the upper pelagic Triassic system in Europe and Asia, preceded by the Carinthian and followed by the Rhetic stage, and forming the earlier part of the Bajuvarian series. It is represented in Europe by the Juvavian Halstatt limestone and the Dachstein limestone, and in India by the zones of Clydonautilus griesbachi and Steinmannites undulostriatus and the beds with Spiriferina griesbachi.

priesoach.
juvenilia (jö-ve-nil'i-ä), n. pl. [NL. prop. neut.
pl. of juvenilis, juvenile.] Things done (especially written) in youth; juvenile writings or works of art. Athenæum, June 24, 1905, p.

juxta-articular (juks'tä-är-tik'ū-lär), a. In the immediate neighborhood of a joint. juxtabasal (juks-tä-bā'sal), a. Near or next to the basal parts.

Juxtaposed twin. Same as contact-twin. See

twin1,

juxtapositive (juks-tš-poz'i-tiv), a. and n. In gram., noting a syntactic case expressing position by the side of an object. A. S. Gatschet, Gram. of the Klamath Lang., p. 470.

juxtapositer (juks-tā-poz'i-tèr), n. An attachment to the spectrophotometer, designed by Milne, for bringing together, along parallel paths, the two beams of light the spectra of which are to be compared.

juxtaspinal (juks-tä-spī'nal), a. Alongside the spinal column or a spinous process anywhere. juxtatorrestrial (juks'tä-te-res'tri-al), a. Near the land: said of the ocean-bottom.

Under the most favorable conditions, therefore, the organic remains actually preserved will usually represent little more than a mere fraction of the whole assemblage of life in these juxta-terrestrial parts of the ocean.

Geikie, Text-book of Geol. (4th ed.), p. 828.

J. V. D. Same as J. U. D.





3. As an abbreviation: In elect., of kathode (cathode, which see) and kathodic (cathodic).—4. In math.: (b) [cap.] The Lemoine point in geometry.—6. In mineral., the middle letter of the general.

the middle letter of the general symbol hkl, given to the face of a crystal in the system of Miller. See *symbol¹, 7.—7. In phys.: (a) The symbol usually employed for moment of inertia. The letter K is used by some writers as a symbol of electrostatic capacity, but C is now almost universally adopted for this quantity. tity. (b) A symbol usually employed to designate magnetic susceptibility. (c) A symbol for absolute temperature.

An abbreviation of Knight of St. An-

K. A. An abbreviation of Knight of St. Andrew (Russia).

kabaya, n. See cabaya.

kabiki (kä-bē'kē), n. [Philippine name.] In the Philippine Islands, Mimusops Elengi, a tree having sweet-scented flowers, which retain their oder when dried and from which a tain their odor when dried and from which a scent is prepared by distillation. The wood is hard and heavy and of a pinkish-red color, and the bark is bitter and is used medicinally. The berries are sometimes eaten by the natives, and the seeds yield an oil which in India is used for cooking. See Minusops.

kabuto (kä-bö-tō') n. [Jap., a helmet.] The pot-helmet of old Japanese armor. kachina (kä-chē'nä), n. Same as *katcina.

kackle (kak'l), v. t.; pret. and pp. kackled, ppr. kackling. [Origin unknown.] To secure (rigging) against chafing by making fast one end of a rope, then hitching alternately right and left.

kæmpferid (kemp'fē-rid), n. [Kæmpferia + id¹.] A sulphur-colored bitter principle, C₁₆H₁₂O₆.H₂O, contained in galangal-root, radix galangæ. It crystallizes in flat needles, melts at 221-222° C., and sublimes with some decomposition.

kaffeeklatsch (kä'fä-kläch), n. [G., < kaffee, coffee, + klatsch, < klatschen, chat, chatter.]
An afternoon party in Germany at which coffee or tea is drunk; an 'afternoon tea' in Germany.

German married women are fond of meeting in knots of three or four in the afternoon at each other's houses for the purpose of enjoying a social cup of coffee. To these innocent gatherings their unfeeling liege lords have given the name of kaffeeklatach.

J. M. Hart, German Universities, p. 162.

Kafir. I. n. 5. pl. The stock-exchange term for South African mine shares. [Eng.]

II. a.—Kafir butter. See *butter!.—Kafir chest ut. Same as wild chestnut, under chestnut.—Kafi otton. See *cotton!.—Kafir piano. Same as zanze

kafir-corn, n. See Indian millet, under millet, and sorghum, 2. In the semi-arid regions of western Kansas and in other places Kafir-corn has become of great agricultural importance on account of its ability to resist drought. Some varieties—for example, red Kafir-corn—are adapted to use as fornge; others, particularly that known as Jerusalem corn, furnish grain.

Kafir-plum (kaf'er-plum), n. Either of two spiny South African shrubs of the family spiny South African shrubs of the family Flacourtiaceæ, Dovyalis rhamnoides and D. rotundifolia, yielding edible, pulpy fruits which make good preserves.

Kafir-thorn (kaf'er-thorn), n. The African tea-tree, Lycium Afrum. See Lycium.

kaguan (kä-gwän'), n. [Native name.] The native name of the flying-lemur or colugo, Caleonithecus. adopted as a book-name.

Galeopithecus, adopted as a book-name.

kagura (kä'gö-rä or käng'ö-rä), n. [Jap.] One of the oldest dances of Japan, which is still to be seen in certain temples. The dancers wear curious gowns and masks. The step is solemn, dignified, and slow, and set to sweet music. It is supposed to be the dance by which the sun-goddess was lured from the cave in which she had secluded herself. C. M. Solwey, Fans of Japan, p. 71.

(d) kagurazame (kä-gö-rä-zä'me), n. [Jap., kaiserzinn (ki'zer-tsin), n. hode, < kugura, a dance, + same, a shark.] The tin.'] A pewter-like materia hodic frill-shark, Chlamydosetachus anguineus, of high polish. It is used for ratio the family Chlamydoselachidæ. Also called dishes, and ornaments. rabuka.

kagyos (käg'yōs), n. [Tagalog kagyos.] In the Philippine Islands, the pigeon-pea, Cajan

kahau (kä'hou), n. [Malay kāhau, so called from its cry. Compare Dyak kahau, call, kahio, the orang-utan. See 'Journal of the Amer. Oriental Soc.,' 1897, vol. xviii., p. 63.] The proboscismonkey, Nasalis larvatus: adopted as a bookforthe boat. Each man then procures a piece of wood or for the boat. Each man then procures a piece of wood or

kahawai (kä'hä-wī), n. [Maori.] A fish, Arripis salar, the salmon of Australia and New Zealand.

kahikatoa (kä-hō-kä'tō-ä), n. [Maori name.] The New Zealand tea-tree, Leptospermum scoparium, a large, heath-like shrub or small tree belonging to the myrtle family. See tea-

kahikomako (kä-hē-kō'mä-kō), n. [Maori.] A small New Zealand tree, Pennantia corymbosa, of the family Olacaceæ. It has simple, alternate, leathery leaves and fragrant white flowers. The wood is used by the Maoris for kindling fires by friction. kahuna (kä-hō'nặ), n. [Hawaiian.] A priest or medicine-mar.

New Zealand.] E. E. Morris, Australia and New Zealand.] E. E. Morris, Austral English. kaid (kä-ēd'), n. [Ar. qāid: see alcaid.] In northern Africa, the head or chief of a tribe, or the governor of a town or local district.

kaik (kä'ik), n. [Maori kaika (southern dialect), kainga (northern dialect), a place of abode, a kainga (nor hern dialect), a place of abode, a village, = Tongan kaiaga, a place where food has been eaten, a table, a manger; connected with Maori and Tongan kai, food: see *kai.] A Maori village. [New Zealand.]

kaikai (kä'i-kä'i), n. [A repetition of Maori kai, food.] Feasting. [Colloq., Australia and New Zealand.]

kaimeh (kä'i-me), n. [Turk. qāimeh, < qāim, habits the island of Molokai.

kaimeh (kä'i-me), n. [Turk. qāimeh, < qāim, habits the island of Molokai. upright, firm.] Turkish paper money; notes of kakerlak, n. See *kakkerlak. the Ottoman Bank. kakistocrat (ka-kis'tō-krat), n

kainga (kä'in-gä), n. Same Morris, Austral English. kainosite, n. See *cenosite. kaique, n. See caique¹. Same as *kaik. E. E.

kai-ri (ki-rë'), n. [Jap., $\langle kai, sea, +ri, mile.$] The Japanese name for the nautical mile (6,080 English feet).

kairocoll (ki'rō-kol), n. [Gr. καιρός, the right time, + κόλλα, glue.] A colorless compound, $C_{11}H_{11}NO_2$, prepared by the action of tetrahydroxyquinoline on chloracetic acid. It crystallizes in long, slender needles and melts

kairolin (kī'rō-lin), n. A colorless liquid, C₉- kakke (käk'kā), n. [Jap.] Same as beriberi. H₁₀NCH₃, prepared by the action of methyl iodide on tetrahydroquinoline; methyltetrahydroquinoline. It boils at 242-244° C. under 720 millimeters pressure, and is used in medicine as a folyrityce. cine as a febrifuge.

cine as a febrifuge.

kaisergelb (kī'zėr-gelp), n. [G., 'imperial yellow.'] One of the modern coal-tar products used as a yellow dye on cloth and to a larger extent on leather. It is the sodium or ammonium salt of hexanitrodiphenylamine. Also known as aurantia. Thorpe, Dict. Applied Chem., II. 377.

kaiserroth (kī'zėr-rōt), n. [G., 'imperial red.'] A coal-tar derivative used in dyeing red. It belongs to the class of phthaleins, and is the sodium salt of dinitro-dibromfluoresceln. Also known as cosin scarlet and safrosin.

kaiserschwarz (kī'zèr-shvärts), n. [G., 'im-

kaiserschwarz (ki'zer-shvärts), n. [G., 'imperial black.'] A black dyestuff consisting of logwood extract oxidized by boiling with salts of copper, iron, or chromium, and oxalic acid. There are several preparations sold under this name, varying in detail as to the process used in making them. Also known as indigo substitute and noir impérial.

kaiserzinn (kī 'zer-tsin), n. [G., 'imperial tin.'] A pewter-like material that takes a high polish. It is used for making utensils,

kaitaka (kä-i-tä'kä), n. [Maori.] A mat of fine texture made by New Zealanders and often worn by them as a cloak. E. E. Morris, Austral English.

A lot. See catel², and the extract.

The fishermen of northeast Scotland, when they return after a successful haul, divide the spoil into as many shares as there are men in the boat, with one share more for the boat. Each man then procures a piece of wood or stone, on which he puts a private mark. These lots are put in a heap, and an outsider is called in who throws one lot or kaivel upon each heap of fish. Each fisherman then finds his kaivel, and the heap on which it lies is his. This system of "casting kaivels," as it is called, is certainly of great antiquity.

Encyc. Brit., XXXIII. 889.

kaiwhiria (kä-i-whē'ri-ä), n. [Maori name.] In New Zealand, an evergreen shrub or small tree, Hedycarya arborea, belonging to the family Monimiaces, with opposite leaves, axillary panicles of diocious flowers, and fruit in the form of red drupes. The wood is finely marked and is suitable for veneering.

kaka-bill (kä'kä-bil), n. Same as parrotbeak. See *kowhai.

kakaguate (kä-kä-gwä'tā), n. In Guam, same

as *cacanuate.

kakahuete (kä-kä-hwā'tā), n. In the Philippine Islands, same as *cacahuate.

kakalaioa (kä-kä-li-ō'ä), n. [Hawaiian, lit.

'thorny.'] A native name in Hawaii for the nicker-tree, Guilandina Crista. See *bayag-lambina kambing.

kakistocrat (ka-kis'tō-krat), n. [kakistocrace (-crat-).] One of the governors in a state ruled by a kakistocracy.

Kakiyemon (kä'kē-yā-mōn), n. The name of a Japanese artist, Sakaida Kakiyemon, of Arita, about the middle of the seventeenth century : about the middle of the seventeenth century: applied to a characteristic style of decoration on Japanese porcelain, consisting of a few simple motives, such as flowers, twigs of trees, and a couple of small birds, scattered sparingly on the white ground, and painted in enamel colors, usually red, green, and blue. This style was later employed at Chantilly, Chelsea, Bow, Worcester, and elsewhere.

perhaps representing a perversion of the original of Sp. cucaracha, E. cockroach. The sense 'albino' seems to be an allusion to the cockroach's shrinking from the light.] 1. A cockroach. Cassell, Nat. Hist., VI. 132. N. E. D. - 2. An albino.

kakkerlakism (kä'kėr-lak-izm), n. [kakker-lak-izm] n. [kakker-lak-izm] Buck, Med. lak + -ism.] Same as albinism. Handbook, I. 165.

continued fever, with progressive anemia, prostration, and dropsy.

Kala-azar has for a number of years been one of the riddles of tropical medicine. There have probably been few diseases so frequently investigated during so short s

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period in which such varying conclusions have been arrived at by those who have been occupied with the work of investigation.

Jour. Trop. Med., Jan. 1, 1903, p. 8.

of investigation.

Jour. 1709.*

**kalaite, n. See calaite.

**kalamalo (kä-lä-mä'lö), n. [Hawaiian kalamalo.] A Hawaiian grass. Same as **emoloa.

Same as **emoloa.

**kaliblödite (kal-i-bled'ît), n. [kaluum + otom
ite]. Same as **leonite.

**kaliborite (kal-i-bō'rīt), n. [kalium + boron
+ -ite².] A massive borate of magnesium and

**Hamaiian kalamalo.] A Hawaiian grass. Same as **emoloa.

**Loonite (kal-i-bō'rīt), n. [kalium + boron
+ -ite².] A massive borate of magnesium and kalamansanai (kä'lä-män-sä-ni'), n. [Also calamansanai; { Tagalog calamansanay.] A name in the Philippine Islands of several valuable timber-trees, especially of Terminalia Calamansanay, of the family Combretaceæ, with simple pointed leaves clustered at the ends of une oranches, spikes of inconspicuous flowers, and winged, nut-like fruit. The wood is close-grained, hard and brittle, and of a color varying from light pink to dark red, often variegated in shades of red. It is susceptible of high polish and is valued for floors by the natives, who, as a rule, take great pride in having fine polished floors in their houses. Though common in several provinces, it is not often found in the markets of Manila. the branches, spikes of inconspicuous flowers,

kalamein (kal-a-mē'in), n. [calam(ine) (G. kal-mei) + -e-in.] A compound of tin, antimony, bismuth, lead, and nickel used in the manufacture of a particular form of galvanized iron. kalamias (kä-lä-mē' äs), n. [Tagalog name.] Same as *kamias.

kalamismis (kä-lä-mēs'mēs), n. [Tagalog kalamismis.] A twining, herbaceous, trifoliate bean, Botor tetragonoloba, having a tuberous root and legumes with four longitudinal ruffled wings. The tender, green, succulent pods are cooked as a vegetable in the Philippine Islands and the island of Guam. In India they are pickled and the seeds are also eaten. called seguidillas.

kalantas (kā-lān-tās'), n. [Also calantas; Tagalog calantas.] In the Philippine Islands, Toona Toona, a valuable timber-tree with fragrant red wood often called cedar on account of its color and odor. The wood is soft and easily worked, and resembles mahogany in texture, though much lighter in weight. It is very durable, is not subject to the attacks of termittes, and is chiefly used for cigar-boxes, chests, and fine interior woodwork, and sometimes by the natives in the construction of cances. See toon3.

kalapia (kä-lä-pē'ä), n. [Also calapia; a Philippine name; cf. Tagalog calap, the name of a tree.] A name in Mindanao of several trees of the family Sapotaceæ, especially of Payena Leerii and Palaquium Celebicum, which yield a milky later from which bettern. milky latex from which gutta-percha is made.

See gutta-putih.

kalchoid (kal'koid), n. [An erroneous form for *chalcoid, < Gr. χαλκοειδής, like copper, < χαλκός, copper, + είδος, form.] An alloy of copper, zinc, and tin, intermediate between brass and bronze.

kale, n.—Thousand-headed kale or cabbage, a much-



branched and leafy form of cabbage with many subvarie-ties, valued in Europe for feeding stock.

[Scotch.]

Kaleyard school, a recent school of fiction which com

prises works describing, with a sufficient use of dialect, the lives of the homely people of Scotland. The name alludes to the Scottish song, "There grows a bonnie brier-bush in our kailyard," from which John Watson ("Ian Maclaren") took the title of a series of short stories ("Beside the Bonnie Brier Bush"), in 1894.

kaleyarder (kāl'yär-der), n. One of the writers

of the *kaleyard school (which see).

kalgoorlite (kal-gör'lit), n. [Kalgoorlie (see def.) + -itc².] A supposed telluride of gold,

Australia. The homogeneity of the mineral has been questioned.

kaliblödite (kal-i-bled'ît), n. [kalium + blöd-ite]. Same as *leonite.

kaliborite (kal-i-bō'rīt), n. [kalium + boron + -ite².] A massive borate of magnesium and potassium: probably identical with *heintzite.

kalios (kä'lō-ōs). n. [Also calios: a native] potassium: probably identical with *heintzite.

kalios (kä'lē-ōs), n. [Also calios; a native name.] In the Philippine Islands, Streblus asper, a small tree of the nettle family, widely asper, a small tree of the nettre rainity, wherey distributed in the eastern tropics. It has a milky latex, rough, alternate, coriaceous leaves (sometimes used in place of sandpaper for polishing), and small edible yellow fruit. In the Philippine Islands it is of no economic importance, but in Siam it is one of the principal paper-yielding trees. See Strebtus and paper-tree, 4.

kallaite (kal'ā-īt), n. [callai(s) + -ite².]

Same as turquoise.

kallilite (kal'i-lit), n. [Gr. καλλι-, beautiful, + λίθος, stone. A translation of G. Schönstein: see the definition.] A sulphobismuthid of nickel, NiBiS, which occurs in bluish-gray metallic masses at the Friedrich mine near

Schönstein, Germany.

kalo (kä'lö), n. [Hawaiian kalo = Samoan talo = Maori taro = Fiji dalo, etc.] Same as

Kalog (kä'log), n. [Prob. native Alaskan.]
A sculpin, Myoxocephalus polyacanthocephalus,
of the North Pacific.

of the North Facilic.

Kalosanthes (kal-ō-san'thēz), n. [NL. (Haworth, 1821), ζ Gr. καλός, beautiful, + ἀνθος, blossom.] A genus of dicotyledonous plants of the family Crassulaceæ. See Rochea.

kalotrope (kal'ō-trōp), n. [Gr. $\kappa a \lambda \delta \varsigma$, beautiful, $+ \tau \rho \delta \pi o \varsigma$, a turning.] A form of thaumaful, $+\tau\rho\delta\pi\sigma_{c}$, a turning.] A form of thaumatrope for the projection of various effects due to persistence of vision. kalumban (kä-lum'bän), n. [Tagalog name.]

Same as *balokanag.

kalumpang (kä-lum'pang), n. [Philippine Sp. calumpang, calumpang, calumpan, < Tagalog *calumpang = Bisaya calumpang.] In the Philippine Islands, Sterculia fætida, a tree with horizontal whorls of branches and digitate horizontal whorls of branches and digitate leaves. It obtained its specific name from the disgusting odor of its flowers. These are followed by scarlet pods, or follicles, usually radiating in fives from a common center and split open on one side so as to show the black seeds, which are very oily. They are sometimes eaten when green, and when ripe are roasted and eaten like chestnuts. The wood is soft and easily carved. It is sometimes used in construction, but is not durable. See stavewood, 2, and Sterulia, 1.

kalumpit (kä-lüm-pēt'), n. [Also calumpit; Philippine Sp., from a native name.] In the Philippine Islands, Terminalia Bellerica, a tree belonging to the Combretaceæ, and yielding edible allmond-like nuts. See belleric, ink-nut, and muschalum and myrobalan.

Kama (ka'mā), n. [Skt. Kāma.] In the Hindu Puranas, the god of love; in later Hindu writ-ings, sensual desire.

kamachiles (kä-mä-chē'lās), n. [Mex. Sp. guamuchil, a name of the species in Mexico.] In Guam and the Philippines, Pithecolobium dulce, a Mexican tree introduced into those islands for the sake of its edible pods and of its bark, which yields 25 per cent. of tannin. Also camanchile. See *guamuchil.

kamagon (kä-mä-gōn'), n. [Also camagon, Bisaya camagong.] In the Philippines, Diospyros discolor, a valuable timber-tree the heart-wood of which resembles ebony in hardness and texture. It is found in the markets in the form of logs 9 feet and upward in length and 12 inches in diameter. The wood is black with yellow streaks, dense and brittle, taking a fine polish, and is highly prized for cabinet work. The tree has simple alternate leaves, small 5-parted flowers, and large hairy fruit, usually containing 8 oval compressed hard seeds.

kamalayka (kä-mä-lä'i-kä), n. [Alaskan.] A waterproof shirt made of intestines of seal

branched and reary for feeding stock.

kalekah (kä-lő'kä), n. [Skt. ka, the letter K, the first letter of the Sanskrit alphabet, + lekha, stroke, line, written document.] A name for the Sanskrit alphabet.

A name for the Sanskrit alphabet.

A name for dinner.

A resinous substance found in the rhizome of the male fern; one of the active principles to which the vermifuge action of the raw product is supposedly due.

kamangsi (kä-mäng-se'), n. [Philippine Sp. camansi, camangsi, & Bisaya camansi.] A form of the breadfruit, Artocarpus communis, growing in the Philippine Islands. It has lobed leaves two feet long and heads of fruit larger than a man's head, containing numerous edible, chestnut-like seeds. The tree yields a milky latex which is used medicinally as an application to ulcers; also for economic purposes. From the fleshy, club-like male inflorescence sweetmeats and preserves are made.

kamarezite (kam'a-re-zīt), n.
[Kamareza in Greece, + -ite².]
A hydrous copper sulphate allied to langite: found near Laurium, Greece kamau

kamau (kä'mou), n. [Appar. Hawaiian.] *Phæornis myadestina*, one of the shrikes peculiar to the Sandwich Islands.

kamazite (kam'a-zīt), n. Same as kamacite.

Kamchatka salmon-trout. salmon-trout.

salmon-trout.

Kame moraine, terrace. See

*moraine, *terrace.

kamias (kä-më-äs'), n. [Tagalog

kamias.] In the Philippine Is
limbi, a small tree belonging to

the sorrel family, having pinnately compound,
sensitive leaves, clusters of crimson flowers,
and pleasantly acid fruit, with the flavor of
sorrel, which is eaten in the form of pre
serves. Also called kalamias. See bilimbi and
Averrhoa. Averrhoa

kami-dana (kä'mē-dā'nā), n. [Jap. kami, god, + tana, shelf.] In Japan, in the Shinto cult, a 'shelf' of white unpainted and unvarnished wood attached to a wall as a sort of a household who astached to a wan as a solution and asserbed shrine. It contains several strips of paper, each inscribed with the name of a god, including one with the name of Amaterasu, the sun-goddess, the principal deity of the Shintoists. Among Buddhists the corresponding 'shelf' is called Butsu-dana or Buddha-shelf.

Next to the uji-gami comes the kami-dana or shrine in which are worshipped the Penates. Every Japanese, with the exception of the more bigoted members of the Buddhist sects called Nichiren-shiu and Ikkô-shiu, possesses such a shrine in his house.

Trans. Asiatic Soc. Japan, III. App. 1, p. 92.

kamik (kä'mik), n. [Eskimo kamik.] Eskimo boots of sealskin or caribou-skin reaching up to the knee or to near the hip.

Kamloops trout. See *trout¹.

kammatograph (kam'a-tō-graf), n. [Irreg. formed from the name of the inventor L. Kamm + Gr. γράφευ, write.] In photog., a form of cinematograph in which the negatives, numbering about 600, are taken on a revolving circular glass plate 12 inches in diameter. A transparent positive from this enables the operator to project the pictures.

The photographs are taken at intervals, varying according to the rapidity of the movements of the plants during several days and sometimes weeks; they are then shown on the screen in the kammatograph, which is a kind of kinematograph, and thus the movements of many days can be followed in a few seconds.

Lancet, June 25, 1904, p. 1815. kämmererite (kem'e-rer-it), n. See penninite Kampecaris (kam-pek'a-ris), n. [NL., Gr. $\kappa \mu n \eta$, a caterpillar, $+ \kappa a \rho t$, a shrimp.] Agenus of large myriapods occurring in the Old Red Sandstone of Scotland. Their body-segments possess two dorsal and two ventral plates, with two pairs of legs.

kampherol (kam'fe-rol), n. [G. kampher, kampfer, camphor, +-ol.] A yellow coloring matter,

 $(\dot{H}\dot{O})_2C_6H_2 < \dot{O}.\dot{C}\dot{C}_6H_4O\dot{H}$

contained in Java indigo. It can be made synthetically, and is also called 1, 3, 4'-trihydroxyflavonol.

kampilan, n. See *campilan.

kamptoderm (kamp'tō-derm), n. [Gr. καμπτός, flexible, + δέρμα, skin.] Same as tentacular sheath (which see, under tentacular).

kamuning (kä-mö'ning), n. [Philippine Sp. camuning; given as a Tagalog name.] In the Philippine Islands, Chalcas paniculata, a shrub or small tree belonging to the Rutaceæ, with clusters of fragrant white flowers and odd pinnate leaves. Its wood is close-grained, hard, and of an ocher-yellow color, with undulating lines and gray streaks. It is very highly prized by the Moros, who use it for making handles for their krisses and bolos. See *Chalcas.

kan⁴ (kän), n. [D. kan, a can, etc.: see can², n.] 1. In Holland, the name given to the

liquids.—2. In Java, a measure of capacity equal to 0.35 of a United States gallon.

K. A. N. An abbreviation of Knight of St. Alexander Nevski. [Russia.]

kanše (ka-nä'ē), n. [Maori kanae = Mangarevan kanae, name of a fish, Tahitian and Hawaiian anae, the mullet.] A fish, Mugil cephalus, of the family Mugilidæ, found in New Zealand waters; also, less frequently, Mugil perusii and Agnostoma forsteri.

kanaff (kän'ät). n. [Native name in Cauca-

kanaff (kän'äf), n. [Native name in Caucasus.] See Dekhan *hemp.

kanaut² (kå-nåt'), n. [Pers. kānāt, pl. of kān, a mine, a quarry (a tunnel).] The name applied to the Persian artificial subterranean channels formed by tunneling in water-bearing gravel or drift, for the purpose of inter-cepting and securing water for water-supply or irrigation.

It is on the gravel slopes that the principal trade routes run, and it is in them that are tunnelled the "kanaute" or "karezes," the artificial subterreanean channels from which the water-supply for towns and for irrigation is largely derived.

Nature, Aug. 28, 1902, p. 420.

kangaroo. n. 3. An early form of 'safety' bicycle which had a large wheel in front and a small one in the rear, the forks being connected by a curved backbone, as in the ordinary 'high' bicycle, but with the saddle back of the large wheel. It was propelled by treadles connected to cranks on the front axle by connecting-rods. This allowed the weight of the rider to be kept always back of the center of the front wheel.

4. pl. In stock-exchange slang, West Australian mining shares.—Antilopine kangaroo, a book-name of Macropus antilopinus, one of the larger kangaroos. Also known in books as the osphranter.—Dorca or Dorcas kangaroo, any kangaroo of the genus Dorcopsis, a group characterized by having the hair on the nape directed forward. They are of moderate size, have various anatomical peculiarities, and are found in New Guines. See cut under Dorcopsis.—Forest-kangaroo, the great kangaroo, Macropus major. Also known as forester.

kangaroo (kang-ga-ro'), v. [kangaroo, n.] I.

as forester.

kangaroo (kang-ga-rö'), v. [kangaroo, n.] I.

intrans. 1. To leap as a kangaroo, either
literally or figuratively.—2. To hunt the
kangaroo. E. E. Morris, Austral English.

II. trans. To whip with a kangaroo-skin

whip-lash.

kangarooer (kang-ga-rö'er), n. One who hunts kangaroos.

kangaroo-fly (kang-ga-rö'fli), n. A name given in Australia to a small biting fly said to

belong to the genus Cabarus. kangaroo-grass, n. 2. Any one of several species of Australian grasses belonging to the genus *Themeda*, especially *T. triandra*, a tall perennial grass, valued for fodder.
kangaroo-hop (kang-ga-rō'hop), n. An affected gait. [Australian slang.]

The young lady that affects waterfalls, the Grecian bend, or the kangaroo hop.

Spectator (Melbourne), May 22, 1875, quoted in E. E. [Morris, Austral English.

kangarooing (kang-ga-rö'ing), n. The chase of the kangaroo.

In chasing kangaroos, or, as it is technically termed, kangarooing, large powerful dogs are used.

Mrs. Meredith.

kangaroo-net (kang-ga-rö'net), n. A net made by Australian aborigines to catch the kan-garoo. E. E. Morris, Austral English. Kan., Kans. Abbreviations of Kansas.

kannume (kä-nö'me), n. [Ar.] A fish, Mormyrus kannume, of the family Mormyridæ, found in the Nile. It was an object of veneration to the ancient Egyptians.

kanoon, n. See kanun.

Kansan (kan'zan), a. and n. I. a. 1. Of or pertaining to the State of Kansas.—2. In geol., noting an epoch or subdivision of the glacial period of which the deposits are found in Kansas.

II. n. A native or inhabitant of the State of

Kantem, n. See *cantem.
kapa (kä'pä), n. [Hawaiian kapa,= Marquesan,
etc., tapa.] 1. Same as tapa (which see).—2.
In Hawaii, cloth of any kind; clothes gen-

eraily. **Kapelimeister music**, music written according to rule, but without originality or genius. **Kapenaar** (kä-pe-när'), n. [Cape D., < kaap, cape.] In South Africa, among the Dutch, a white person dwelling in Capetown; in the Netherlands, a white person dwelling in Cape Colony.

Kaph² (käf), n. [Heb. kaph, kaf, orig. kap.] under karoo).
The eleventh letter (3) of the Hebrew alpha- Karoomys (kā-rö'mis), n. [NL., viciously

of electrical machines.] In elect., an obsolete practical unit for magnetic flux, equal to 6,000

maxwells or c. g. s. units.

kappa (kap'š), n. [Gr. $\kappa \acute{a}\pi\pi a$, \langle Phen. (Heb.)

kap: see K, and $\star kaph^2$.] The Greek letter κ : which occurs on the coast of New Zealand. represented in English by k, and sometimes karri (kä'rē), n. [Aboriginal Australian.] In Western Australia, a gigantic tree, Eucalyptic light of 200

kapparah (ka-pä'rä), n.; pl. kapparoth (ka-pä'röt). [Heb. (Yiddish kappore), < kappar, forgive, cover over, atone. The phrase is kapparoth (Yiddish kappores) shlogen (G. schlagen, beat), lit. 'beating the atonement.'] A Jewish custom by which, on the eve of the Day of Atonement, a fowl (a cock for a man and a hen for a woman), after several passages from the Scriptures treating of atonement, confess the Scriptures treating of atonement, confession, and prayer have been repeated, is moved around the head three times. The following declaration is then repeated: "This is my substitute, this is my commutation, this is my atonement. This cock goeth to death, but I shall be gathered in and walk into a long and happy life and into peace." The fowl is then killed. This custom is discarded by the reformed Jews, but is still in vogue among the strictly orthodox members of the synagogue.

kapta (kap'tā). n. [Lappish 1] A shirt of

kapta (kap'të), n. [Lappish*] A shirt of reindeer-skin worn by the Laplanders.

kapu (kä'pö), n. [Maori kapu, the hollow of the hand, a curved adz.] An adz used in New Zealand.

Karaitism (kā'rā-īt-izm), n. Same as Kara-

karaka (kä-rä'kä), n. [Maori karama, — gaian karaka, Fiji qalaka, names of trees.] A New Zealand tree, Corynocarpus lævigata, of the cashew family, yielding orange-colored berries two or three inches long. The pulp of the berry is eaten raw, but the kernel is poisonous unless cooked for several days. Thus prepared it forms an important article of native food. Called also covetree.

karakin (kar'a-kin), n. [karaka + -in².] A colorless glucoside contained in the kernels of karaka-tree berries. It forms pearly lustrous crystals, melting at 90° C.

karamu (kä-rä-mö'), n. [Maori.] Any one of several species of Australasian trees and shrubs belonging to the genus Coprosma, especially belonging to the genus Coprosma, especially kernel, + aorip, star: see aster!.] In cytol., the star-shaped cluster of chromosomes in the karyokinetic spindle: opposed to *cytaster.

*Coprosma.—Bush karamu, the orangeleaf or looking-glass bush, Coprosma lucida.

karamushi (kä'rä-mö'shi), n. [Jap.] Same as ramie.

karanja (kä-rän'jä), n. [Bengali, ⟨Skt. ku-runja.] Same as *kurung.

Karatsu pottery. See *pottery.

karbi (kär'bi), n. [Native Australian.] A

the star-shaped cluster of chromosomes in the karyokinetic spindle: opposed to *cytaster. See *aster¹, 7, with cut.

karyenchyma (kar-i-eng'ki-mä), n. [NL.,⟨Gr. κάρνον, nut, kernel, + ἐγχνμα, an infusion: see *enchyma.] Same as *karyolymph.

karyobasis (kar-i-ob'a-sis), n. [NL.,⟨Gr. κάρνον, nut, nucleus, + βάσις, basis.] Same as *karvomitonlasm.

Karatsu pottery. See *pottery. karbi (kär'bi), n. [Native Australian.] A small stingless bee, probably Melipona carbonaria, about 135 of an inch in length, which builds its comb in the shape of a spiral stair-

builds its comb in the shape of a spiral stair-case. It fights desperately with its mandibles and is apparently of a very fierce disposition. Cambridge Nat. Hist., VI. 63. kareau (kā-rā-ou'), n. [Maori kareao, < kare, a whip-lash, + au, cord.] In New Zealand, Ripogonum scandens, a climbing shrub of the smilax family, the slender wiry stems of which form interwoven thickets in the forest. The long underground rootstocks of this plant have been used as sarsaparilla by the settlers, and the stems as cord and for weaving baskets. Also called pirita.

Karelian (ka-rē'li-an), a. and n. [NL. *Ka-relia (G. Karalier, n. pl.), < Finn. Karjaläiset (karja, flock, herd).] I. a. Of or relating to

the Karelians.

II. n. 1. One of the eastern divisions of the Baltic Finns.—2. The language of these eastern Finns.

Karian, a. and n. Same as Carian.

karimata (kä-ri-mä'tä), n. [Jap.] In old Japanese armor, a bifurcated arrow, some-times combined with an apparatus for giving the weapon a whistling sound in the air.

kariskis (kä-ris'kis), n. [A Philippine name, prob. (Tagalog and Bisaya caliskis, a scale, to scale off. The small leaflets fold together in an imbricating manner when asleep.] In the Philippine Islands, the silk-tree, or pink siris, Albizzia Julibrissin, the bark of which is sometimes used by the natives to produce a dark dye: the wood is used for furniture. See silk-tree and siris.

Karoo beds. Same as Karoo series (which see,

liter when used as a measure of capacity for liquids.—2. In Java, a measure of capacity equal to 0.35 of a United States gallon.

bet. corresponding to the Greek kappa and English k or c. Its numerical value is XX. genus of small fossil mammals from the Karoo beds of South Africa, believed to represent beds of South Africa, believed to represent the oldest known mammalian. The only spe-cies is K. browni.

karoro (kä'rō-rō), n.

In Western Australia, a gigantic tree, Eucalyptus diversicolor. It attains an average height of 200 feet, and several feet from the ground a diameter of 4 feet. The wood is red, hard, heavy, strong, tough and wavy in the grain, which makes it difficult to work, but it is much used for paving blocks, and the tall, straight trunks make good masts. See karri wood, under wood! karst (kärst), n. [Cf. Lith. karsti, Lett. kärst, grow old: Pol. karślak, a stunted tree.] A region whose surface features are produced by the solvent action of water on limestone.

the solvent action of water on limestone. Also used attributively.

The author [Dr. Cvijic], who is well known for his useful monograph on the phenomena of the "Karst."

Geog. Jour. (R. G. S.), XIIL 427.

The character of the country around these parts of the lake [Prespa] resembles that of the Dalmatian islands, while the lake itself is of the nature of a "Karst" lake.

Geog. Jour. (R. G. S.), XV. 174.

**Reof. Jour. (R. G. S.) XV. 174.

Kartel (kär'tel), n. [Cape D., prob. < Pg. catel, catte, catre, little bed, said to be < Tamil kattil, a bedstead.] A wooden hammock used in an ox-wagon. [South Africa.]

karunda (kä-run'dä), n. [Hindi.] A low, spiny bush of the dogbane family, Arduina Carandas, much cultivated in India for its edible fruits. These are pale-green when young, white and pink when approaching maturity, and nearly black when ripe. The unripe fruit is astringent and is then only made into pickles, while when ripe it has a pleasant acid taste and is always eaten uncooked.

as *karyomitoplasm.

car- karyochrome (kar'i-ō-krōm), n. [Gr. κάριον, hich nut, $+ \chi ρ \bar{\omega} \mu a$, color.] In neurol., a name given tair- by Nissl to certain nerve-cells in which the cell-body is very small but in which the nucleus is as large as in ordinary nerve-cells or at any rate larger than that of a neuroglia cell. See *caryochrome.

karyogamy (kar-i-og'a-mi), n. [Gr. κάρυου, nut, nucleus, + γάμος, marriage.] In embryol., the union of two nuclei, as during the fertilization of the egg by the spermatozoon.

karyohyaloplasm (kar'i-ō-hī'a-lō-plazm). π. [Gr. κάρνον, nut, nucleus, + ναλος, glass, + πλάσμα, anything formed.] Same as *karyo-

πλασμα, anything formed.] Same as *karyolymph or *karyonkyma. (kar-i-ō-lī'mā), n.; pl. karyolymata (-mā-tā). [NL., ζ Gr. κάρνον, Lut, nucleus, + (appar.) λῦμα, a pledge (a thing to be released), taken in sense of λίσις, loosening.] The karyokinetic or mitotic figure in cell-division turnback 1876.

karyokmette or intotal nights in celt-division. Auerbach, 1876.

karyolymph (kar'i-ō-limf), n. [Gr. κάρνον, nut, kernel, + L. lympha, water: see lymph.] The liquid contents of the cell-nucleus, as distinguished from the less liquid or more stable linin reticulum, chromosomes, and nucleoli. Also called karyenchyma.

karyolysis, n. Same as *caryolysis.

karyomerite (kar-i-om'e-rit), n. [Gr. κάριον, nut, kernel, + μέρος, a part, + -ite².] A plasmic nucleolus which serves as a temporary repository for a chromosome in the eggs of some animals.

karyomicrosoma (kar'i-ō-mī-krō-sō'mä),n.; pl.
 karyomicrosomata (-ma-tā). [NL., ⟨Gr. κάριον, a nut, kernel, + μικρός, small, + σωμα, body.]
 Same as *karyomicrosome.

karyomicrosome (kar'i-ō-mī'krō-sōm), n. [Gr. κάμνον, nut, nucleus, + μικρός, small, + σῶμα,

body.] One of the minute granules or micro-kasidah (ka-sē'dā), n. [Pers. Ar. qasīdah, an somes supposed to constitute the karyoplasm ode.] A form of Persian poetry composed in of the cell, as the cytomicrosomes are supdistichs. Burton.

posed to make up the cytoplasm. **karyomite** (kar'i-ō-mīt), n. [Gr. κάρυον, nut, nucleus, + μίτος, thread.] One of the threads which constitute the reticulum of the cellnucleus.

karyomitome (kar-i-om'i-tōm), n. [Gr. κάpoor, nut, nucleus, + µrros, thread: see *mi- kassaba (kā'sā-bā), n. [Ar. qasaba, a reed, a tome.] In cytol., the fibrillar net or reticulum standard of measure.] A measure of length which extends through the nucleus of the cell used in northern Africa and in Arabia. In in the resting-stage.

karyomiton (kar-i-om'i-ton), n.

nut, nucleus, + μίτος, thread.] Same as *karyomitome.

karyomitoplasm (kar'i- $\bar{0}$ -mi't $\bar{0}$ -plazm), n. Gr. $\kappa \acute{a} \rho vo\nu$, nut, nucleus, + $\mu \acute{t} roc$, thread, + $\pi \lambda \acute{a} \sigma \mu a$, anything formed.] In cytol., the substance of which the karyomitome, or nuclear reticulum, consists: opposed to *karyolymph or *karyenchyma. karyomitotic (kar'i-ō-mī-tot'ik), a. Of or per-

taining to karyomitosis.

karyon(kar'i-on),n. [NL.,also*caryon(caryo-),

Gr. κάρυου, a nut, kernel, nucleus.] The

cell-nucleus.

karyophan (kar'i-ō-fan), n. One of the nucleus-like granules in the microsomes of the strand of contractile substance in the stalk of Vorticella and other related infusorians.

karyoplasmic (kar'i-ō-plaz'mik), a. Of or pertaining to the karyoplasm, or nuclear plasm of the cell.

karyorhexis, karyorrhexis, n. See *caryorrhexis.

karyosoma (kar'i-ō-sō'mä), n.; pl. karyosomata (-ma-tä). [NL.] Same as *karyosome. karyosome (kar'i-ō-sōm), n. [NL. karyosoma, ζ Gr. καρυον, nut, nucleus, + σωμα, body.] 1. $\langle Gr. \kappa a \rho vov, \text{nut, nucleus,} + \sigma o \mu a, \text{body.}]$ 1. A nucleolus-like mass of chromatin in the cell-nucleus: distinguished from the plasmosome,

nucleus: distinguished from the plasmosome, or true nucleolus.—2. A chromosome.—3. A micronucleus of the Infusoria.

karyostonosis (kar'i-ō-stō-nō'sis), n. [NL., ζ Gr. κάρρον, nut, nucleus, + στένωσις, narrowing: see stenosis.] Amitosis, akinesis, or direct cell-division, as distinguished from mitosis or karyokinesis: so called because the nucleus divides by simple constriction without forming a spindle. See *amitosis, with cut.

karyostenotic (kar'i-ō-stē-not'ik), a. Of or pertaining to karyostenosis, or amitotic cell-division.

karyota (kar-i-ō'tä), n. pl. [Gr. καρυωτός, having nuts (as a tree or a cup), (κάρνον, a nut, nucleus.] A general term for nucleated cells, as opposed to akaryota, or non-nucleated cells. Flemming, 1882.

karyotheca (kar'i-ō-thē'kā), n. See *caryo-

kaseelee (ka-sē'lē), n. [E. Indian.] The black-bellied darter, or snake-bird, *Plotus melano-*gaster, found on the coast of southern Asia and also in the Philippine Islands.

kaselle (ka-sel'), n. [NGr. κασέλλα, a box, case, trunk, compartment, < It. casella, a small room, closet, compartment, dim. of casa, bours, compartment, dim. of casa, a house: see casemate! and casula.] A compartment or cell beneath the floor: used in reference to stone receptacles or cists which were found in the Minoan palace at Cnosus in Crete and probably were used for treasure. Nature, Aug. 21, 1902, p. 392.

kashern (kä'shern), v. t. [Yiddish kashern, koshern, with G. inf. ending, < Heb. kashar. Compare kosher.] To make fit or clean accompare kosher.] To make it or clean according to the precepts of the rabbis. For example, to prepare meat and cleanse it from blood, blood being strictly forbidden to the Jew (Lev. xiz. 26 et passim). To kushern utensils, tables, etc., before Passover festival is to scrub and wash them with boiling water if they have been used during the year with hamets or leavened food. Also koshern.

Kashmiri (kash-me'ri), n. [Hind. and Kash-mir Kashmiri, from Kashmir, Kashmir, Cash-mere.] The principal Indian (Aryan) dialect spoken in Kashmir.

kashya (käsh'yä), n. [Aram. Heb. kasha, hard, difficult, severe, etc.] A word which occurs frequently in the Talmud, when a point under discussion cannot be solved, or when there is an objection to a proposition. The word in modern Jewish usage signifies 'question.' Thus the four questions a child asks his father at the seder service on Passover eve are called kashyas.

Kaskaskia group. See *group!.

kasoi (kä-sō'i), n. [See cashew.] In the Philippine Islands and Guam, the cashew, Anacardium occidentale. See kaju-apple, cashew, 1, cashew.nut (with cut), and Anacardium

Egypt it is equal to 11.65 feet.

kasube (kä'su-bā), n. A ray or skate, Raja kenojei, of the family Rajidæ, common in Japan. kat2 (kät), n. [Ar. khat.] Same as kafta. See Catha.

Ea.t.a.. The increased use of this spelling, instead of *cata*, in scientific terms is due in great part to the mechanical copying of German forms. Uniformity requires *cata*-in the English forms.

katabolite (ka-tab'ō-līt), n. [Better catabolite, kathodic, a. \(\) catabol-ic + -ite^2.] A resultant of catabolic kathodic, a. \(\) Same as \(\) catabol-ic + -ite^2.] processes.

kataforite, n. See *cataphorite.
katalase (kat'a-lās), n. [katal(ysis), catal(ysis),
+ -ase.] An intracellular oxidizing ferment.
-Blood katalase. Same as *hemase.

katamorphism (kat-a-môr'fizm), n. [Gr. κατά, down, +μορφή, form, +-ism.] In geol., any change in the texture of rocks produced by fracturing and granulation, with recrystallization, whereby rocks become finer-grained and foliated, as the production of gneisses and schists from granites. Chamberlin and Salisbury, 1904. According to Van Hise, katamorphism is that phase of metamorphism in which simpler compounds result from the alteration of more complex ones. He includes under such changes weathering and cementation, accompanying oxidation, hydration, and carbonation, chiefly of silicate minerals. The reverse process of metamorphism called anamorphism.—Zone of katamorphism, the outer zone in the solid earth "in which the alterations of rocks result in the production of simple compounds from more complex ones. It is subdivided into an outer belt of weathering and an inner belt of cementation." Van Hise, U. S. Geol. Surv. Monographs, XLVII. 43. the production of gneisses and schists from

katana (kä'tä-nä), n. [Jap.] A Japanese sword which, in its modern form, has a single edge and is slightly curved toward the point.

and is slightly curved toward the point.

katapetasma, n. See *catapetasma.

kataphoresis, n. Same as *cataphoresis.

kataphorite, n. Same as *cataphorite.

kataplexy, n. Same as *cataphorite.

kataplexy, n. Same as cataplexy.

katapositive (kat-a-poz'i-tiv), n. [kata-+
positive.] In photog., a positive on an opaque
base, in contradistinction to a transparency
or diapositive. Wall, Diet. of Photog., p. 424.

kataposic (kat-a-ton'ik). a. Pertaining to or katatonic (kat-a-ton'ik), a. Pertaining to or

affected with katatonia; profoundly melan-katurai cholic. G. S. Hall, Adolescence, I. 301. tö'ri), n.

katatrepsis (kat a-trep'sis), n. [NL., < Gr. κατά, down, + τρέψις, < τρέπειν, turn.] The movement of certain insect embryos which brings them to the ventral surface of the yolk after they have left this to develop for a time within the yolk or on its dorsal surface. W heeler, 1893.

katatype, n. Same as *catatype.

katcina (kä-chē'nä), n. [An official spelling, in the method used by the Bureau of American Ethnology, of what would be more properly *katchina or *katshina; a Hopi (Moki) word.] 1. Among the Hopi, a supernatural being re garded as a clan ancestor, and impersonated in certain ceremonials by masked men wearing totemic designs characteristic of the clan.

Inasmuch as these tihus represent Katcinas and as these Katcinas play a very important part in the religious life of the Hopi the importance of a collection of this magnitude, carefully arranged and labelled, can not be overestimated. Even more difficult than these tihus to obtain are the masks which are worn by the Hopi as they personate delties in the Katcina dances.

Science, Feb. 8, 1901, p. 222.

2. A masked man who impersonates the clan ancestor .- 3. A figure or image made in imitation of one of the masked impersonators.

kath (kath), n. [Hindi katha.] In northern India, a gray, crystalline substance prepared from a concentrated decoction of the wood of Acacia Catechu, by placing in it a few twigs and allowing the decoction to cool. The twigs are removed and the crystalline sub-**katzev** (kat'zef), n. [Yiddish.] stance collected. It is a refined form of See *shohet. catechu, consisting of almost pure catechin, **kau-karo** (kou-kä'rō), n. [Fijian and is eaten by the natives in their pan, im- + karo, itch.] See *itchwood-tree.

parting with the lime the red color to the teeth and lips. Compare catechu, *khirsal, and pans.

athembryo (ka - them 'bri - ō), n. [Gr. κατά, down, $+ \epsilon \mu \beta \rho vov$, embryo.] A stage in the embryonic polyzoan characterized by a complicated degenerative metamorphosis and leading from the typembryo to the phylembryo

stage. Cumings, 1904.

kathembryonic (ka-them-bri-on'ik), a. [kathembryon+-ic.] Of or pertaining to a kathembryo. Amer. Jour. Sci., Jan., 1904, p. 53.

Kathetostoma (kath-e-tos'tō-mā), n. [NL., ζ Gr. κάθετος, lit. down, perpendicular, + στόμα, mouth.] A genus of fishes belonging to the family Uranoscopidæ, found in Australian waters and on both coasts of America.

Kathetostomatins (kath-e-tos'tō-ma-tī'nō), n. pl. [NL., $\langle Kathetostoma(t-) + -inæ.$] A sub-family of uranoscopid fishes.

kati (kä'tē), n. [Malay kātī.] Same as cattu.

katacrotic, a. Same as catacrotic. katadicrotic (kat-a-di-krot'ik), a. Same as Katipunan (kä-ti-pö-nän'), n. [Also catipunan. Tagalog catipunan, catiponan.] Among the Tagalog catipunan, catiponan.] Among the Filipinos, a secret society: sometimes one formed for a political purpose.

A secret organization known as the Katipunan was therefore started to secure reforms by force of arms. Each member enrolled was bound by the ancient "blood compact."

compact." Encyc. Brit., XXXI. 669. katmon (kät-mõn'), n. [Also catmon; < Bisaya catmon.] A handsome evergreen tree, Dilenia Philippensis, with large, coriaceous, sharply serrate leaves, and fine large flowers composed of an imbricating calyx, five white petals, and numerous yellow stamens arranged in two series so as to form two cup-shaped masses. The carpels cohere at the axis and are inclosed when ripe by the enlarged and thickened sepals which overlap, forming a large globose fruit. This is pleasantly acid and is used by the natives for seasoning in place of lemons or vinegar. The wood is used for cabinetwork.

inetwork.

katoikogenic (kat'oi-kō-jen'ik), a. [Gr. κατά, down, + οἰκος, house, + -γενης, -producing.]

Of or pertaining to eggs which have little foodyolk and complete their development in the follicle in which they were formed. [Rare.]

There are two types of development among scorpions which Laurie describes as apolkogenic and katoikogenic.

Natural Science, Oct., 1896, p. 232.

katun (kä-tön'), n. [Maya.] In the ancient calendar of the Maya Indians, a period of twenty years.

twenty years.

Moreover, in A 3 we find the Katun sign with the number 1, which may be a declaration that the date is in a first Katun or beginning Katun, for I see no reason why the beginning Cycle, Katun, Tun, Uinal, and Kin should not have been called the first.

G. B. Gordon, in Amer. Anthropologist, Jan.—March, 1902, [p. 135.

katurai (kä-tö'rī), n. [Also caturai, katu-dai; a Philippine name.] In Guam and the Philippine Islands, Agati grandiflora, a small tree of the bean family, of East Indian origin, having pinnate leaves, large papilionaceous flowers, and long, slender, sickle-shaped pods. The flow-ers, tender young leaves, and green pods are eaten as pot-herbs and salad, but are lax-ative if partaken of too freely. The leaves are used for



forage, and in India the astringent bark is used as a remedy in smallpox and other eruptive fevers. See pea-tree, 2.

katydid, n. 2. Same as *logging-wheels.—Oranberry katydid, an American locustid, Scudderia tezensis, especially abundant in the cranberry-logs of New Jersey, where it eats into the berries and devours

katzev (kat'zef), n. [Yiddish.] A butcher.

[Fijian kau, tree.

Kaulfussia (koul-fös'i-ä), n. [NL. (Nees von Esenbeck, 1820), named in honor of G. F. Marylor (1830), a German botanist.] 1. Mighly seasoned stock.

An untonable name for Charieis, a genus of plants of the family Asteraceæ.—2. [l. c.] A hardy annual, Charieis heterophylla, considerably grown in flower-gardens for its many blue, red, or purple heads. It is native to South Africa. In catalogues the plant is known as Kaulfussia amelloides, with Latin-named varieties.

Keewatin

built with a keel, as distinguished from a center-board boat.

keel-line (kēl'līn), n. 1. The line of a vessel's keel.—2. The lacing which secures a bonnet to the foot of a sail.

keelman, n. 2. The skipper of a keel-boat or barge used around Newcastle, England.

clothing trade, one who spies out the newest designs from rival dealers and reports them to his employer.

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kaulosterin (kå-los'te-rin), n. [Gr. καυλός, stalk, + Ε. (chole)sterin.] A variety of cholesterin for a lost of the lost of t

lesterin found in plants.

Kaunitz (kou'nits), n. 'The bureau à cylindre,' or roll-top desk, supposed to have been invented by Prince Wenzel Anton von Kaunitz, minister of Maria Theresa to France about 1750, and frequently called by his name.

kauon (kä'ö-ōn), n. [Bisaya caong.] In the Philippine Islands, the sago-palm, Saguerus pinnatus, which yields toddy and a fiber. Also called pugahan. See areng (with cut), ejoo, gomuti, 1, and *cabo-negro.

kawain (kä'vä-in), n. [In G. spellings kawain, kawahin; < kava + -in².] A colorless com-

 $CH_2\langle \overset{\delta}{O} \rangle C_6H_3CH$: CHCH: CHCOCH₂COOCH₃,

contained in kava root, Piper methysticum. It crystallizes in small, silky needles and melts at 137° C. Also called methysticin or methyl methysticinate.

kava-ring (kä'vä-ring), n. A ceremonial feast at which kava is drunk.

kawaka (kä'wä-kä), n. [Maori.] The New Zealand or cypress-cedar, Libocedrus Doniana. See New Zealand *cedur.

kawamutsu (kä-wä-möt'su), n. [Jap. kawamutez, < kawa, river, + mutez, name of a fish.]
A shiner or minnow, Zacco temmincki, of the family Cyprinidæ, found in the waters of

Japan.

kawata (kä-wä'tä), n. [Jap., < ka, plant, +
wata, lint, = lint-plant.] The cotton-plant.

kawauke, n. See *wauke.

kawika (kä-wē'kä), n. [Fijian.] The native
name for the Malay apple, Caryophyllus Malaccensis. See *ahia and Malay apple, under Malay.

kayak (ka'yak), v. i. [kayak, n.] To hunt or travel in a kayak.

Eekimo kayaking near Amadjuak Bay, Baffinland. Geog. Jour. (R. G. S.), XVIII. 42.

kaziasker (kä-zē-äs'kėr), n. [Turk. qāzī-'asker, lit. 'judge of the army': qāzī, judge (see kadī), +'asker, army (see lascar).] One of the two chief officers of the Turkish ulema who have enier officers of the furkish dema who have equal jurisdiction, one in Europe, one in Asia.

K. B. An abbreviation (c) of Knight Bachelor.

K. B. E. An abbreviation of Knight of the Black Eagle (Prussia).

K. O. An abbreviation (a) of King's College; (b) of King's Counsel; (c) of Knight of the Crescent

(Turkey).

An abbreviation of Knight Com-

mander of the Order of) Hanover.

K. O. I. E. An abbreviation of Knight Commander of (the Order of) the Indian Empire.

K. O. M. G. An abbreviation of Knight Com-mander of St. Michael and St. George (Ionian Islands).

K. O. S. An abbreviation of Knight of Oracle.

III. of Spain.

K. O. S. I. An abbreviation of Knight Commander of (the Order of) the Star of India.

An abbreviation of kathodal closure. An abbreviation of kathodal closure

mander of (the Order of) the Star of Interest.

K. O. T. An abbreviation of kathodal closure tonic. Dunglison.

K. O. V. O. An abbreviation of Knight Commander of the (Royal) Victorian Order.

K. D. An abbreviation of Knight of the Danne-

brog (Denmark).

K. D. G. An abbreviation of King's Dragoon

An abbreviation of kathodal duration tetanus.

K. E. An abbreviation (a) of Knight of the Eagle (Prussia); (b) of Knight of the Elephant (Denmark).

Keb. An abbreviation of Keble College, Ox-

kebob, v. t. Same as cabob.

ked² (ked), n. [A variant of cade¹.] A sheeptick, Melophagus ovinus; a sheep-louse.

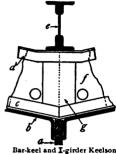
keddah (ked'ä), n. Same as *kheda.

to his employer.

keekwilee-house (kēk'wi-lē-hous'), n. nook jargon, keekwilee, keekwillie, low, below, Chinook proper gegwalih, below.] An underground house of the Indians of the interior of British Columbia and of Washington. Rep. Brit. Ass'n Advancement of Sci., 1900, p. 485.

Chinook proper gegwalih, below.] An underground house of the Indians of the interior of British Columbia and of Washington. Rep. Brit. Ass'n Advancement of Sci., 1900, p. 485.

keel!, n. 2. In iron ship-building, owing to the facility with which the plates and bars can be combined in a variety of shapes, the forms of keels are very numerous. There are two principal classes, the bar-keel (also called hanging keel), which projects below the bottom, rnd the fat-plate keel, which forms part of the bottom surface. The ordinary bar-keel is formed of lengths of heavy iron or steel bars scarfed together at the ends. The garboard-plates are fianged down against the sides of the keel-bat and the whole is riveted together. (See cut.) The side-bar keel consists of a central vertical keel, are heavy iron side-bars, and flanged down against them are the garboard-plates as in the ordinary single bar-keel. In modern war-ships and large merchant steamers the flat-plate keel is used almost exclusively. (See cut.) The keel consists of an outer flat keel-plate, an iner flat keel-plate it, frame-bar; cheeves and lower keel angle-bars, uniting the vertical keel of the flat keel-plate it, frame-bar; flower keel angle-bars, uniting the vertical keel plates. The vertical keel-plate in stead of an inner ship the plate in stead of an inner ship the plate in stead of an inner ship there is a comparatively narrow shat plate attached to the statched to the sta



auanteet is one in which the horizontal keel-plate has a U- or trough-shaped cross-section. A bilge-keel may be made of a projecting bulb-plate secured to the outside plating by angle-bars, or in large ships, particularly warships, it is of V-shaped cross-section formed of plates riveted together at their outer edges and secured at their inner edges to the outside plating by angle-bars, the interior of the V-shaped space being filled with wood. See also *docking-keel.

In arch., the projecting arris of edge-molding.—Inner keel, in iron ship-building, same as fat-plate keelson (which see, under *keelson, 2). keel-band (kēl'band), n. A strip of iron, used principally on rowboats, which extends from the top of the stem to a short distance back on the keel, to prevent the stem from chafing and to size additional extensity. and to give additional strength.

keel-bill (kēl'bil), n. The large West Indian ani, Crotophaga ani, one of a peculiar group of cuckoos having a very high, sharp-edged bill. See ani.

built with a keel and decked over; a flat-bottomed freight-vessel with no power of pro-pulsion.—2. Same as keel¹, 6.—3. Any boat

keel-plate (kēl'plāt), n. See *keel¹, 2.

keel-rabbet (kel'rab'et), n. A groove cut in each side of the keel of a vessel for the purpose of receiving the edges of the garboard-strakes, or lowest lines of planking.

keel-riveter ($k\bar{e}l'riv'e$ -ter), n. A hydraulic or pneumatic machine for riveting together the various parts of an iron or steel keel.

keel-rope (kēl'rop), n. A rope or small chain rove through the limber-holes to clear the latter of dirt, being pulled back and forth, and thus to allow the bilge-water to circulate along the keel.

keelson, n. 2. In iron ship-building, a longitudinal reinforcement of plates and bars in the interior of the vessel above the framing the interior of the vessel above the framing in the bottom. The center-line keelson, or center-keelson, is immediately over the keel, and is frequently built in combination with it. The simplest form is a girder entirely on top of the frames riveted to the reverse bars. The girder is formed of various combinations of plates, bulb-plates, and angle-bars are combined in a form of rectangular cross-section. A fat-plate keelson is formed by a flat plate laid on top of the frames and riveted to them and to the vertical keel-plate. There may be additional reinforcements of bars above the flat-plate keelson, or there may be a center-line bulkhead above it. (See cut at *keel1, 2.) An intercostal keelson is one built up of a series of intercostal plates between the frames, the upper edges of which project above the reverse frame-bar and are riveted to a line of continuous plates and bars above the frame. A *side-keelson is one in the bottom on either side between the center-line and the turn of the bilge. A bilge-keelson is one just below the turn of the bilge near the heads of the floors.— Middle-line keelson, the longitudinal girder in the bottom of a vessel, fitted in the line of the keel.

keelson-capping (kel'son-kap'ing), n. The timber bolted on top of the main keelson: generally referred to as a rider.

timber bolted on top of the main keelson: generally referred to as a rider.

keel-staple (kēl'stā'pl), n. A large staple used to fasten the false to the main keel.

keen¹, a. H. n. The angle to which the wire tooth of card-clothing is bent between the foundation material and the point.

keep, v. I. trans. 22. In printing, to save (composed type) from distribution; also, to follow rigidly the capitals or other peculiarities of (manuscript copy).—To keep away (naut), to put the helm up; to alter the course of (the ship) so as to avoid another vessel or some danger.—To keep cases, in faro, to keep account of the cards as they come from the dealing-box, so that it shall be known when any card is a case. When this record is kept on a sheet of paper it is called 'keeping tab on the game.' See *case2, 19, and faro.—To keep her own, said of a vessel when her speed against a current is equal to the velocity of the stream; to maintain position.—To keep her own way, to maintain her way through the water after her propelling force, of either sail or steam, has been withdrawn: said of a ship.—To keep in. (d) in printing, to space (words) thinly, so as to keep the composed type within prescribed limits.—To keep the sea, to hold mastery over the sea; to control the navigation of the sea.

H. intrans. 6. In cricket, to act as stumper or wicket-keeper. [Colloq.]—To keep off, to direct a vessel's head more away from the wind.

keep, n. 10. In mech.: (a) A cover to protect a part of a machine from injury. (b) A chock:

keep, n. 10. In mech.: (a) A cover to protect a part of a machine from injury. (b) A chock; a part of a machine from injury. (b) A chock; a stop; a block to prevent a piece from moving. (c) On a locomotive, a part of the axlebearing which is fitted below the journal of the axle and serves to hold an oiled pad against it to furnish constant lubrication.

keeper, n. 6. (k) A keep; a cover; a protector. See *keep, 10 (a). (l) A pawl; a stop; a catch.
7. In cricket, a wicket-keeper or stumper. [Colloq.]—Keeper of the exchange and mint. Same as master of the mint (which see, under mint!).

keep-ring (kep'ring), n. A ring for holding something in place; specifically, a ring which serves to keep a locomotive- or car-journal from getting out of the box, and also holds an oil-pad against the journal.

on-pad against the journal.

keer-drag (kēr'drag), n. A drag-net in which
the meshes of the bag are very small: used for
collecting small fishes. [Prov. Eng.]

keeving (kē'ving), n. In mining, the process
of preparing fine ore-slime in a keeve.

Keewatin (kē-wā'tin), n. A name proposed in 1886 by A. C. Lawson for a series of pre-Cambrian schists near the Lake of the Woods, Ontario. An. Rep. Geol. and Nat. Hist. Surv. Canada, 1885, I. 5cc.

kef (kāf), n. [Ar. kef, a variant pronuncia-tion of kaif (kāf).] Same as kaif. kemp², n.—Flatkemp, a wool-fiber that is partly ke kef (kāf), n.

kefir (kef'er), n. [Also kefyr, kephir; of Caucasian origin.] An effervescent drink prepared from the fermented milk of cows: used by the natives of the northern Caucasus region, and now extensively used elsewhere as a food for invalids. It contains from 1 to 2 per cent. of free lactic acid and from 1 to 3 widow was entitled, consisting of the terce or third of the per cent. of alcohol. The original ferment used is a particular fungus called *kefir grains Japanese sword. (which see).

Small pebble-like or seed-like masses, occurring in the Caucasus region, . . . used for the fermentation of milk into a substance called kefir, the equivalent of koumyss.

Buck, Med. Handbook, V. 302.

Buck, Med. Handbook, V. 302.

Kefir grains or granules, the name, in the dried state, of a fungus-like growth found on the branches of bushes below the snow-line in the Caucasus, used as the original ferment in making kumiss. It is a mixture of several micro-organisms—a kind of yeast capable of producing alcoholic fermentation, a bacterium producing lactic acid fermentation, and another body which acts on casein so as to render it imperfectly coagulable. When dried the whole mass forms yellowish grains about as large as peas: these are soaked in water before adding them to the milk to be fermented.— Water kefir, kefir made from water and sugar instead of milk: a popular hygienic tonic and appetizing drink for soldiers. The kefir is not a good germ culture medium, and is therefore more healthful than the water from which it is made. The formula is two liters of water to one liter of kefir grains and fifty grams of brown sugar. It is stirred in an open pitcher, and after three days stirred again and bottled, the corks being fastened as in champagne bottles. After being bottled for three days it is drinkable. The kefir grains can be used again and again, and if well dried can be put away to keep for months. Army and Navy Jour., May 6, 1899, p. 859.

keg-lard (keg'lärd), n. Lard put up in kegs

keg-lard (keg'lärd), n. Lard put up in kegs for sale: usually understood, in a commercial sense, to be a more fusible material than bladder-lard and of an inferior quality. *bladder-lard, 2,

*bladder-lard, 2.

keg-spring (keg'spring), n. A wire spring so coiled as to be full in the center like a keg.

kehoeite (kē'hō-īt), n. [Named (1893) after

Mr. Henry Kehoe, who first observed it.] A
hydrous phosphate of aluminium and zinc
found in South Dakota. It occurs in white,
massive, amorphous forms with galena.

keir-house (kēr'hous), n. The house or building in which the keirs are located.

kelene (kē'lēn), n. [Formation not evident.]
Pure methyl chlorid, CH₃Cl, used as an
anesthetic in place of ether and chloroform:
a trade-name.

a trade-name.

[Guatemalan Indian.] A kelep (kel'ep), n. carnivorous ant, Ectatomma tuberculatum, which preys on the cotton-boll weevil and other insects and which

has been imported into Texas kelleg (kel' eg), n. Same as killock, 2.

Kelep (Ectatomma tuberculati About twice natural size

R. Kipling, Captains Courageous, iii. [New

kellup-weed (kel'up-wed), n. The oxeye-

kellup-weed (kel'up-wed), n. The oxeye-daisy, Chrysanthemum Leucanthemum.

kelp², n. 2. The ash left from the burning of seaweed, which up to the close of the eighteenth century formed the chief source of supply of carbonate of soda in western Europe, is now valuable almost solely as a source of iodine. The word 'kelp'applies to this material as prepared on the Atlantic coast of Sodiand and Ireland. Varee is the same product from the coast of Brittany, and barilla the same from the Spanish coast.

crab (kelp'krab), n. A spider-crab, altus productus, found along the coast of kelp-crab (kelp'krab), n. California

kelper (kel'per), n. Same as kelpie.
kelp-fish, n. 3. A name applied to a number of
other, unrelated fishes living among the kelp,
as rock-fish is applied to those living in rocky places. In Australasia: (a) The butter-fish, Coridodax pullus, of the family Labridæ. (b) The ground-mullet, Odax baleatus, of the family Labridæ. (c) Chironemus marmoratus, of the family Cirrhitdæ. (d) The spotty, Pseudolabrus bothryocosmus.

kelp-hen (kelp'hen), n. The weka rail, Ocy-dromus troglodytes, of New Zealand: named from frequenting the sea beach in search of food. See Ocydromus, 1.

kelp-shore (kelp'shor), n. Same as shore!, 2. kelpware (kelp'wār), n. The bladder-wrack or black tang, Fucus vesiculosus.

Keltologist, etc. See *Celtologist, etc. kelvin (kel vin), n. A name proposed, in honor Kelvin's law. See *law1.

kemp², n.— Flat kemp, a wool-fiber that is partly kemp. kempy (kem pi), a. [kemp² + -y¹.] Having a solid, non-cellular structure, as some fibers of wool or cotton. Hannan, Textile Fibres of

Commerce, p. 87. **Ken¹**, v.i.—To ken to the terce, in Scots law, to assign dower to a widow; to fix the precise lands to which a widow was entitled, consisting of the terce or third of the husband's estate.

Japanese sword.

Ken. An abbreviation of Kentucky.

kena (kā'nä), n. [Also quena; Aymará and Quichua of Bolivia and Peru.] A small flute of reed or cane, blown from the end: a common musical instrument of the Indians.

Kendal cotton. See *cotton1. Kendal green (ken'dal-grēn'). A green dye obtained by mixing woad with the yellow dye obtained from the flowers of the dyer's-broom, Genista tinctoria.

kendir (ken'dēr), n. [Kirghiz name in Turkestan.] A plant of the dogbane family, Apocynum venetum, which yields a strong fiber, used by the natives of Turkestan for fishinglines, rope, and twine.

kennebecker (ken-e-bek'er), n. [Kennebec(k) + -er. See *kennebunker.] Same as *kennebunker.

kennebunker (ken-e-bungk'er), n. for clothes which Maine lumbermen take with them into the wood ('up the Kennebunk' and them into the wood ('up the Kennebunk' and other rivers). A variant form, Kennebecker, assumes an origin in the Kennebec river. Jour. Amer. Folk-lore, Oct.-Dec., 1902, p. 245. kennel¹, n. 4. A head-dress worn by women in the reign of Henry VIII. kennel-book (ken'el-buk), n. A publication in which is given the pedigree and record of dogs. Compare herd-book and stud-book. kenner (ken'er), n. One who knows or kens. kennet's (ken'et), n. [Late ME. kannette; prob. < OF. *canette, *kenette, in central OF. chenette, dim., < L. canus, gray.] An old fabric of coarse texture; a kind of gray cloth. kennick (ken'ik), n. [Given as a Cipsy term.] The jargon of Gipsy tinkers. C. G. Leland. kenning's (ken'ing), n. [Icel. kenning, a dis-

kenning³ (ken'ing), n. [Icel. kenning, a distinctive poetical name; also a mark of recognition, a doctrine, a teaching, < kenna, know, recognize, call, name: see ken¹, v., and kenning¹.] In Old Norse, Anglo-Saxon, and other old Teutonic poetry, a distinctive poetical name, usually periphrastic in form, addition to, or substituted for, the usual name of a thing or person. Such terms form a usual ornament of Angio-Saxon verse, as in 'Beowulf,' 'Exodus,' etc. Examples are 'whale-road,' and 'gannet's bath' for 'the see,' 'ward of the bone-house' (that is 'keeper of the breast'), for 'heart' or 'mind.'

kenning-glass (ken'ing-glas), n. An old name

for a spy-glass. kenogenic (ken-ō-jen'ik), a. [Also cenogenic; Gr. καινός, recent, + -γενης, -producing.] Of or pertaining to the recent or individual history of an organism, as distinguished from its past or ancestral history; kenogenetic. [Rare.]
—Kenogenic variation. See *variation.

-Kenogenic variation. See *variation.

kenoticism (ke-not'i-sizm), n. [kenotic + -ism.] The doctrine of the kenosis of Christ, -ism.] The doctrine of the kenusis of that is, of the limitations implied in the incarnation. See kenosis.

kenotism (ke-nō'tizm), n. [kenot(ic) + -ism.]
Same as *kenoticism. **kenotist** (ke-no'tist), n. [kenot(ic) + -ist.]

Same as kenoticist.

kenrei (ken-rā'), n. [Jap., \ ken (Chin. hien, prefecture), + rei (Chin. ling, direct, lead).]
The governor of the administrative division of Japan known as a ken. See ken⁶.

Kensington stitch. See *stitch.

kentallenite (ken-tal'en-it), n. [Kentallen, Scotland, + -ite².] In petrog., a phanerocrystalline rock composed of orthoclase and limesoda-feldspar in nearly equal proportions, to-gether with augite, biotite, and olivin; an olivin-monzonite. Hill and Kynaston, 1900.

Kenticism (ken'ti-sizm), n. An expression characteristic of the Kentish dialect. Kentish cousins, distant cousins or relatives.

kentledge, n. 2. In the British service, condemned shot, shell, and similar unserviceable articles.—Kentledge goods, such heavy parts of a ship's cargo as may be used for ballast.

of Lord Kelvin, for the kilowatt-hour which is the British Board of Trade unit of work.

Kelvin's law. See *law¹.

kentrogon (ken 'trō-gon), n. [Gr. κέντρον, a point, + γόνος, generation.] In rhizocephalous crustaceans, a larval stage in which the

parasite attaches itself to the host by an antenna, throws off its whole trunk, leaving only its head, and undergoes other modifications including the formation of a hollow arrow-like process or borer through which the parasite enters the body-cavity of the host.

kent-tackle (kent 'tak 'l), n. Same as cant-

tenyte (ken'ît), n. [Mt. Kenya, East Africa, $+ -ite^2$, spelled perversely -yte.] In petrog., a volcanic rock resembling pantellerite but more basic. It is porphyritic, with phenocrysts of soda-microcline; ground-mass glassy or hyaloplitic; subordi-nate minerals ægirite, augite, and olivin. Gregory, 1900.

Keokuk group. See *group1. kephalin, n. Same as *cephalin.

kephalin, n. Same as *cephalin. ker-. An unstressed introductory syllable, ker. An unstressed introductory syllable, perhaps better written ka- or ke-, used in some dialectal words, without meaning in itself but serving to introduce an emphatic stress, as in kerslap, kerchunk, kerplunk, keruhack, etc. It probably originated in the involuntary utterance which often precedes a sudden physical effort, as in striking with an ax or hammer or paving-rammer. keracele (ker'a-sēl), n. Same as *keraphyllo-

keraphyllocele (ker-a-fil'ō-sēl), n. [Gr. κέρας, horn, + φύλλον, leaf, + κήλη, tumor.] A sharply defined horn tumor projecting from the inner surface of the wall of a horse's hoof and appearing at the plantar surface as a semi-circular thickening of the white line.

kerasin (ker'a-sin), n. Same as *cerasin². keratectomy (ker-a-tek'tō-mi), n. Same as

keratiasis (ker-a-tī'a-sis), n. Same as *cera-

keratin (ker'a-tin), n. Same as ceratin. keratinization (ker'a-tin-i-zā'shön), n. Same as *ceratinization.

keratinize (ke-rat'i-nīz), v. i. Same as *cera-

keratinoid (ke-rat'i-noid), n. Same as *cerakeratinose (ke-rat'i-nos), n. Same as *cerati-

nose. keratitis (ker-a-tī'tis), n. Same as ceratitis. kerato-angioma (ker'a-'tō-an-jī-ō'mā), n. Same as *angioceratoma.

keratoconus (ker'a-tō-kō'nus), n. Same as *ceratoconus.

keratode (ker'a-tōd), n. Same as ceratode. keratoderma, keratodermia (ker'a-tō-der'-mā, -mi-ā), n. Same as *ceratoderma. keratohyalin (ker'a-tō-hī'a-lin), n. Same as

*ceratohyalin. keratohyaline (ker'a-tō-hī'a-lin), a. Same as *ceratohyaline.

keratoid (ker'a-toid), a. Same as ceratoid. keratoiditis (ker-a-toi-di'tis), n. Same

ceratitis. kerato-iridocyclitis (ker'a-tō-ir'i-dō-si-klī'-

tis), n. Same as *cerato-iridocyclitis. kerato-iritis (ker'a-tō-ī-rī'tis), n. Same as *cerato-iritis.

keratolysis (ker-a-tol'i-sis), n. Same as *ceratolusis.

keratoma (ker-a-tō'mā), n. Same as *ceratoma. keratomalacia (ker'a-tō-ma-lā'si-ā), n. Same as *ceratomalacia.

keratome (ker'a-tōm), n. Same as ceratome. keratometer (ker-a-tom'e-tèr), n. Same as *ceratometer.

keratomycosis (ker'a-tō-mī-kō'sis), n. Same as *ceratomycosis.

keratophyre (ker'a-tō-fir), n. [Gr. κέρας (κερ-ar-), horn, + Ε. (por)phyr(y).] In petrog., dense, compact porphyry, composed of alkali-feldspars and diopside. A variety containing quartz is called quartz-keratophyre. Gümbel,

keratoplasty (ker'a-tō-plas-ti), n. Same as ceratoplasty.

keratoscope (ker'a-tō-skōp), n. [Also cerato-scope; ⟨ Gr. κέρας (κερατ-), horn, + σκοπεῖν, view.] A device for determining the presence of irregularities in the anterior surface of the cornea.

Keratosis folliculorum, a disease marked by papules containing plugs of horny epithelial cells.

keraunograph (ke-ra no-graf), n. Same as

*ceraunograph.

keraunoid (ker' å-noid), a. [Gr. κεραννός, thunderbolt, +-oid.] In petrog., noting bifurcate microlitic crystals of augite, feldspar, or other minerals. Washington, 1896.

News of winter's vanishing,
And the children build their bowers,
Sticking kerchief-plots of mould
All about with full-blown flowers.
Wordsworth, To the Same Flower [Small Celandine], st. 8.

kerchunk (ker-chungk'), adv. [ker-+ chunk1.]
With a sudden heavy blow or thump. [Slang or colloq., U. S.]
kerf² (kert), v. t. [kerf², n.] To cut (a strip

 $kerf^2$ (kerf), v. t. $[kerf^2, n.]$ To cut (a strip or bar of wood) with one or more kerfs for the purpose of bending it.

kerflummux (ker-flum'uks), v. t. and i. + flummux.] To 'flummux' comp [Slang or colloq., U. S.] completely.

Kermanji (ker-män'jē), n. The language of

kermanji (kêr-mān'jē), n. The language of the Kurds; Kurdish. kermes, n. 3. Short for kermes-mineral, or, more properly, mineral kermes. kernbut (kērn'but), n. [Kern, a river in California, + but(tress).] A name suggested by A. C. Lawson for a peculiar topographic form in the Kern River valley, California, - a buttress projecting from one side of a cañon and crowding the river against the opposite wall. From the fact of their being buttresses of a peculiar From the fact of their being buttresses of a peculiar type recognized for the first time in Kern Cañon, the feature is called a kernbut.

Bulletin Geol. Dept. Univ. of California, 1904, III. 382.

kern-curve (kern'kerv), n. In projective geom., the conic of reference whose every tangent is dual to its own contact-point.

kerned (kernd), a. [kern1 + -ed².] Said of a printing-type that has a small projection beyond its body, as the knobs at the ends of

yond its body, f and j.

kernel¹, n. 4. (b) An enlarged lymphatic glaud.—6. In metal., a nucleus of a double sulphid of copper and iron obtained in roastcontribution of pyrites. The kernels are the lumps of pyrites. sulphid of copper and iron obtained in roasting cupriferous iron pyrites. The kernels are separated by hand from the lumps of pyrites and are melted for copper. Phillips and Bauerman, Elements of Metallurgy, p. 485.

— Waxing kernels. (b) Swollen tonsils. Kernel-roasting (ker'nel-ros'ting), n. The process of roasting cupriferous iron pyrites for the extraction of copper. See *kernel1, 6. Phillips and Bauerman, Elements of Metallurgy p. 485.

lurgy, p. 485.

kern-soap (kern'sop), n. Soap separated from the original solution by the addition of salt or a strong brine: same as curd soap (which see, under soap). Sci. Amer. Sup., May 20, 1899. kern-stone (kern'ston), n. A coarse-grained

sandstone. Kerosene emulsion. See *emulsion.

kerosene emulaion. See **emulaion. see **emula

kerosolene (ker'ō-sō-lēn), n. [keros(ene) + -ol + -eno.] A trade-name for petroleum ether which at one time was proposed for use as an anesthotic.

with a sudden 'plunk', adv. [ker-+ plunk.]
With a sudden 'plunk' or plunge. [Slang or colloq., U. S.]
Kerr effect, Kerr's constant. See *effect,

Kerry² (ker'i), n. A breed of small, active, black cattle having its origin in the southwest of Ireland: of considerable value for dairy purposes.

kerseymere-twill (ker'zi-mēr-twil'), n. four-harness twill-weave: same as *cassimere-

kershaw, n. Same as *cushaw.

kerslop (ker-slop'), adv. [Var. of kerslap.] Same as *kerslap.

kerwallop (ker-wol'op), adv. [ker-+ wallop¹ and wallop².] With a sudden wallop or onrush. [Slang or colloq.]

kerygma (ke-rig'mš), n. [Gr. κήρυγμα, < κηρύσσειν, herald, proclaim: see caduceus.] A pro-

**ceraunophobia.*

keraunoscopolon (ke-rå 'nō-skō-pō'on), n.

Same as ceraunoscope.

keraunoscopy (ke-rà-nos'kō-pi), n. Same as **ceraunoscopy.

Kerberos (kèr 'be-ros), n. [Gr. Κέρβερος.]
Same as Cerberus.

kerchief-plot (kèr'chif-plot), n. A gardenplot no bigger than a handkerchief.

Gentle breezes bring

Gentle breezes bring

preaching.

keryktics (ke-rik'tiks), n. [A bad form (with a worse one, kerystics) for what would be reg.

**keryktics, or rather **cerycics, pl. of **cerycic, ql., ⟨κῆρυκ-⟩, a herald.]

That department of practical theology which treats of the science of preaching. It includes missionary preaching and preaching to believers, as differentiated from homiletics, which deals only with the latter. Baldwin, pict. of *Philos. and Psychol., I. 160.

kerystic (ke-ris'tik), a. [A bad form, intended to be formed from Gr. κηρίσσειν, proclaim, herald, < κῆρυξ, a herald.] Of or

pertaining to preaching.

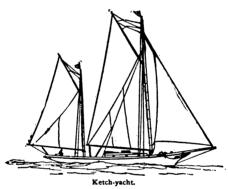
kestrel, n.—Nankeen kestrel, the Australian sparrow-hawk, Tinnunculus cenchroides; so named on account of its yellowish color, which suggests that of

keta (kē'tā), n. A vernacular name in Kamchatka of the dog-salmon, Oncorhynchus keta. The fish is one of the smaller of the Pacific salmon and is found from San Francisco to Kamchatka, ascending all streams in the fall and spawning at no great distance

from the sea. **ketate** (kē'tāt), n. [ket(one) + -ate¹.] The name of a class of organic compounds containing the complex $\frac{X}{Y} > C < \frac{OR}{OR}$. They are also called ketone ethers.

ketazin (ke-taz'in), n. [ket(one) + az(ote) + -in².] The name of a class of organic com-

pounds containing the complex R' > C:NN:C > R''. They are crystalline and stable and are prepared by the action of



sails, the mainsail being smaller than the foresail, and the one head-sail (the jib) setting on a short bowsprit.

ketine ($k\bar{e}'$ tin), n. [$ket(one) + -ine^2$.] 1. The name of a class of organic compounds conketine (kē'tin), n. taining the complex

$$N <_{CH:CH}^{CH:CH} > N.$$

They are prepared by the reduction of nitroso-ketones, closely resemble the pyridine bases in general properties, and are also called pyrazins and aldines. See *aldine2. 2. A colorless, crystalline, basic compound,

$$N <_{CH:C(CH_3)}^{C(CH_3),CH} > N$$
,

found in commercial fusel-oil and prepared by the action of ammonia on glycerol. It crystallizes in lustrous plates or rhombohedra, melts at 16 °C., and boils at 165 °C. Also called 2.5-dimethylpyrazin, dimethyldiazin, glycoline, and dimethylaldine. ketipic (kē-tip'ik), a. Noting an acid, a colorless amorphous compound, HOCOCH₂CO-COCH₂COOH, prepared by the action of diethyl oxalate on two equivalents of ethyl dichloracetate. It decomposes at 150° C., without melting, into carbon dioxid and diacetyl. Also called diacetyl-dicarboxylic acid. **keto.** A combining form used in organic chemistry to indicate the presence of the ketone group R' > CO.

kershaw, n. Same as *cusnaw.

kerslap (ker-slap'), adv. [ker-+ slap1.] With a sudden slap or loud slapping blow. [Slang or colloq., U. S.]

kerslop (ker-slop'), adv. [Var. of kerslap.]

kerslop (ker-slop'), adv. [Var. of kerslap.]

ketohexose (kē-tō-hek'sōs), n. $[keto(ne) + Gr. \hat{\epsilon}\xi, six, + -ose.]$ A ketone-alcohol containing 6 atoms of carbon, a member of one class of the glucoses. Fruit-sugar or levulose is the most familiar example of such a substance.

keraunophobia (ke-rā-nō-fō'bi-ṣ), n. Same as clamation; preaching; specifically, Christian ketol (kō'tol), n. [ket(one) + -ol.] The name of a class of organic compounds containing the group

 $_{\mathbf{R'}}^{\mathbf{R}} > \mathbf{COC}(\mathbf{OH}) < _{\mathbf{R'''}}^{\mathbf{R'''}} \cdot$

They are also called ketone alcohols. ketole (kē'tōl), n. Same as indol.

ketone, n.—Ketone blue. See *blue.—Pimelic ketone. Same as *cyclohezanone.
ketose (kē'tōs), n. [ket(one) + -ose.] A classname applied in organic chemistry to sugars,

such as fructose, containing a ketone group. ketoxime (kē-tok'sim), n. [ket(one) + oxime.]
A class-name applied in organic chemistry to compounds of ketones and hydroxylamine, containing the group $\underset{\mathbf{R}'}{\mathbb{R}} > C:$ NOH.

kettle-boiler (ket'l-boi'ler), n. An obsolete type of steam-boiler the general form of which was spherical like that of a kettle, with a flat bottom over the fire.

kettle-bottom (ket'l-bot'um), n. 1. Naut., a vessel having a flat floor.—2. A hill the outline of which suggests an upturned kettle.

kettle-broth (ket'l-broth), n. See the quota-

'Kettle-broth' . . . consists of pieces of stale bread liberally moistened with boiling water, and besprinkled with salt and pepper. Eleanor G. O'Reilly, Sussex Tales, IL 187. N. E. D.

kettled (ket'ld), a. In geol., worn into potholes or 'giant-kettles.'

kettledrum (ket'l-drum), v. i.; pret. and pp. kettledrummed, ppr. kettledrumming. To drum (on the kettledrum); sound like a kettledrum. hydrazine on ketones.

ketch-yacht (kech'yot), n. A small pleasurevessel with two masts and three fore-and-aft kettle-maw (ket'l-ma), n. Same as angler, 2. kettle-net (ket'l-net), n. Naut., a net for

catching mackerel.

Ketton-stone (ket'on-ston), n. In petrog., an oölitic limestone found at Ketton, England. collisic limestone found at Ketton, England.

ketuba (ke'tö-bä), n. [Heb., < katab, write.]

Among the Jews, a written marriage contract.

The phraseology of the document follows a set form, the particulars relating to dowry and marriage settlement varying in individual cases. The language is always Aramaic. After the date, the names of the contracting couple and those of their parents are fully given thus:

"N, son of N, of the city of N, said to the virgin N, daughter of N, 'Be thou my spouse according to the law of Moses and Israel, and I will labor, honor, nourish, and support thee according to the custom of Jewish men who labor, esteem, nourish, and support their wives truthfully." Then follow the particulars of amount, etc. (200 sus to a virgin and 100 sus to a widow), the husband binding himself to pay that amount in full "from the best part of his possessions. . . even from the garment upon his shoulders." The document is signed by the bridegroom and two witnesses, and is then read by the rabbi, in the presence of all concerned, at the marriage ceremony.

Keupermergel (koi'per-mer-gl), n. [G., 'Keupermarl.'] In geol., a subdivision of the Triassic system in Germany which attains a thickness of 1,000 feet. It is underlain by the Lettenkohle and overlain by the Rheetic, and is the middle division of the Keuper.

kevel⁴ (kev'el), n. [Also keval, kevil; origin obscure.] A local name in Derbyshire, England, for the calcareous gangue of lead ore (galena). keweenawite (kē'wē-nâ-īt), n. [Keweenaw + -ite².] An arsenide of copper and nickel, (Cu,Ni)₂As, found in Keweenaw county, Michigan.

(Cu, Ni)₂As, found in Keweenaw county, Michigan.

1 keyl, n. 3. (k) In printing, the circular ratchet that closes or uncloses patent quoins of iron.

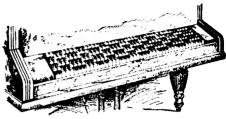
— 11. A wooden pin for fastening hides together while they are being limed. Modern Amer. Tanning, p. 207.—Gross keys, in her., keys borne crosswise as in the papal arms: a frequent sign in Europe.—Gold key, the office of groom of the stole.—Key of the sea, the pelican's-foot shell, Aporthais perplecant. See cut under Aporthais.—Reys of the weather, the twelve days of Yuletide (December 25. January 5), popularly considered as the keys to the weather of the coming year, month by month.—Reverse keys, wedges or keys used for driving apart or separating two pieces of a machine. They are made of two steel plates, one of which has a projection on one side and the other a recess in one edge of the same length as the projection on the first key. They are frequently used for forcing tapered rods out of their socketa.—Ringing-key, in the phony, a key by which an operator makes the necessary connections to send calling-current and operate the bell of any subscriber: frequently combined with a listening-key, in which case the device is called a listening-key, in which case the device is called a listening and loosing; the cross keys in the papal crown. See prover of the keys, under key1.—Secondary key, in music. Same as relative or parallel key.—Bplit key, a spilt pin; a pin made of half-tound wire which has a loop for a head and the ends of which can be easily apread apart to prevent its falling out.—Stepped key, a key which has separate and movable bits: used with permutation locks.

keyl, v. t.—To key up, to drive in the keys (in the key-loader (kē'lō'der), n. In the making of khat (kät), n. See kafta. sense of wedges) so as to change the shape of the structure. Thus, to key up an arch is to drive in the last the key-leads. to that the whole arch will hold itself off the centering, which may then be struck key-log (kē'log), n. In lumbering, a log which caste among the Hindus. N. E. D.

keyboard, n. 1. Pedal keyboards in the organ are called KeyDOS.Td., N. 1. Pedal keyboards in the organ are called radiating when the keys are made to converge somewhat below the player's seat, like the ribs of a fan, and concave when the general level of the inner keys is lower than that of the outer ones. In the best organs the pedal keyboard is both concave and radiating.

keyboard is both concave and radiating.

2. The set of keys for operating the letters of a type-writing or type-setting machine.—Jankó
keyboard, a form of pianoforte keyboard, invented in
1882 by Jankó, then of Berlin. It consists of six rows,
or three double rows, of peculiarly rounded keys, closely



Jankó Keyboard.

terraced so that the player may pass readily from one to another or use two rows at once. The three double rows are duplicates of each other, and are connected with the same levers: they are provided simply to give the maximum ease of shifting and combining. Each double row is arranged thus:

C\$ D\$ F G A B

C D E F\$ G\$ A\$

The keys corresponding to the black keys of the ordinary keyboard are distinguished by black bands. The utility of the invention lies (a) in its compactness, an octave being about equal to a sixth in the ordinary keyboard, so that intervals longer than an octave may be spanned; (b) in its adaptability to the hand, so that by shifting from row to row the shorter fingers can be favored; (c) in the fact that the fingering for every tonality is the same, thus facilitating transposition and the playing of pleces in 'remote' keys; and (d) in facilitating special effects, like the glissando.—Universal keyboard, a particular arrangement of letters on the keyboard, a type-writer, adopted by most of the manufacturers in the United States, so that any operator may use any machine without special practice. Another arrangement is called the 'ideal keyboard.'

key-center (kē'sen'ter), n. In the keyboard

key-center (ke sen'ter), n. In the keyboard kg. of a pianoforte or organ, the center of a key sey-center (kē'sen'ter), n. In the keyboard kg. An abbreviation of Knight of the or digital: used as a point of reference in measurements.

A iaw-chuck the K. G. O. B. An abbreviation of Knight of the Colden Circle (United States).

K. G. O. B. An abbreviation of Knight of the Colden Circle (United States).

key-chuck (kē'chuk), n. A jaw-chuck the screws of which are actuated by a key-wrench. key-clog (kē'klog), n. A wooden clog, or a metal strip or plate, attached to a key to pre-

vent it from being overlooked or lost.

key-coupler (ke'kup'ler), n. In organ-building, a coupler between two keyboards or between octaves on the same keyboard, when the coupled keys actually move. See coupler (a).

key-frame (ke'fram), n. In the organ and
the pianoforte, the board underneath and sup-

the planoforte, the board under planoforte.

key-gage (ke'gāj), n. A plate-gage, either male or female, used for checking the width of keys and key-seats, the female or receiving gage being notched the exact width of the key and its mate being the exact width required for the keyware. for the keyway.

key-hammer (kē'ham'er), n. A hand-hammer used for driving keys or wedges.

Keyhole nebula. See *nebula.

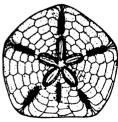
keyhole-urchin (kē'hōl-er"chin), n. Any flat

sea - urchin having keyhole - like openings through the test, as Scutella and Mellita.

key-horizon (kē'hō-ri'zon), n. An easily recognized geolog-ical surface which serves as a plane of reference from which measurements can be made.

By connecting the points of equal elevation a contour map of the key horizon was constructed.

Contrib. to Econ. Geol., U. S. Geol. Surv., 1902, p. 339.



key-lead ($k\bar{e}'led$), n. In the organ and the pianoforte, a small piece of lead let into a key-tail to insure the prompt rise of the key when it is released. See cut under pianoforte.

keyless (ke'les), a. [$key^1 + -less$.] Having no key (in any sense).

is so caught or wedged that a jam is formed and held by it.

key-model (kē'mod'el), n. The model of a vessel cut from a block composed of various layers of wood fastened together by wooden

key-money (kē'mun'i), n. Money exacted from a coming tenant before the keys of the house

are delivered to him. [Eng.]
key-move (ke'möv), n. The first move in the solution of a chess problem or end-game study, as intended by its author. Another such move,

key-recorder (kē'rē-kôr'dér), n. A clock combined with a time-registering mechanism operated by pressing numbered keys. Engin. Mag., July, 1904, p. 618.

key-seater (kē'sē'tér), n. A machine for cutting a keyway or slot for a spline. Pottable machines designed to cut a keyway in a piece of shafting, while in position, are essentially small milling-machines operated by hand or by a motor, or by means of flexible shafting, and having narrow-face cutters for milling out the slot. Larger machines are modifications of the slotting-machine or draw stroke shapers. Also called keyway cutter.

key-seating (kē'sē'ting), n. 1. A key-seat; khubber (kub'er), n. [Also khuber, khabbar, a keyway.—2. The process of cutting a key-khabar; (Hind. Pers. Ar. khabar.] Informaseat.

Keyser cup. See *cup.

key-stringed (ke'stringd), a. Of musical instruments, having strings and played by means

of a keyboard. **key-tube** ($k\bar{e}'t\bar{u}b$), n. 1. A tube in a lock designed to support the key.—2. The hollow shank or stem of a pipe-key.

K. F. An abbreviation of Knight of Ferdinand

(Spain).

An abbreviation (a) of keg; (b) of kilo-

Grand Cross of the Bath. K. G. H. An abb Guelfs of Hanover. An abbreviation of Knight of the

An abbreviation of kilogrammeter, the kem. gravitational unit of work.

K. G. V. An abbreviation of Knight of Gus-

tavus Vasa (Sweden).

K. H. An abbreviation of Knight of (the Order of) Hanover.

of) Hanover.

khaki. I. a. 2. Made of the cloth known as
khaki (without direct reference to color).

He descended in a new khaki suit of a delicate olivegreen. R. Kipling, Arrest of Lieut. Golightly, in Plain

[Tales from the Hills, p. 124.

II. n. 1. On account of its neutral color and other conveniences, khaki is now used extensively for uniforms in the British and United States armies, especially while they are engaged in active operations in the field. It was originally a cotton twill, but it is now also made of wool and of various colors.

2. A soldier clad in khaki. Hencecause and the policy represented by the khaki-clad military forces operating in South Africa in 1899-1902, and support of the British government in its war policy at that time: as, to vote khaki, that is, to support the government and its measures in carrying on the Boer war.-4. The bonds issued by the British government in raising money to continue the Boer war.

The market does not know whether the new war loan, Khakis, will be offered at 97, 98, 99, or 100.

Westminster Gazette, March 9, 1900. N. E. D.

khakied (kä'kid), a. Clothed in khaki. Daily Express (London), June 26, 1900.

khal (käl), n. [Hindustani khāld, a creek, inlet, rivulet, watercourse.] A creek, pool, or

This is steeped in the big khal at Ishapur, and during the fermenting stage mosquitoes are generated very plentifully.

Jour. Tropical Med., June 15, 1903, p. 200.

khalifa, khalifah (kä-lē'fā), n. [Ar. khalīfa.] Same as calif.

khalil (kä-lēl'), n. Same as chalil.

Khamitic (ka-mit'ik), a. Same as Hamitic. khandjar, khanjar (kan'jär), n. Same as

kheda (ke'dä), n. [Also keddah, < Hind. khedā, < Skt. ākhelā, hunting.] In India, a snare, in the form of an inclosure, in which adult wild elephants are captured.

The custom in Bengal is to construct a strong enclosure (called a keddah) in the heart of the forest.

Sir J. E. Tennent, Ceylon, 11. 342.

khediviate (ke-dē'vi-āt), n. [khedive + -i- + -ate³.] The office, dignity, or government of the khedive; the dominions of the khedive.

An account is given of the reforms instituted during the Khediviate of Ismail Pashs.

as intended by its author. Another such move, not intended by the author, is called a cook.

key-plan (kē'plan), n. A diagrammatic or abridged plan giving simply the emplacement of the chief points of interest. It may be a key or index to more elaborate plans.

Key-plate, n.—Drop key-plate, a key-plate having a pivoted cover or guard over the keyhole.

Limitation of the chief points of interest. It may be a key or index to more elaborate plans.

Catechu.] Nearly pure catechin found in pockets of the wood of Acacia Catechu, the East Indian tree yielding catechu, and used by the natives in betel-chewing.

khoja (kō'jā), n. [Also khodja, khodgea, cojah, hoja, hojah, hodja, etc., < Turk. khawāja, pron. kōhja, khāja, = Hind. khuājah, in popular pronunciation khājā, < Pers. khawāja, pron. khājah, a rich merchant, a gentleman, a man of distinction, in Turk. also specifically a teacher, a scribe.] 1. In Persia, a gentleman; a man of distinction.—2. In Turkey, specifically, a teacher in a school attached to a mosque.

tion; intelligence; report.

Khussak beds. See ★bed1. Ki. An abbreviation of Kings.

kiang², n. See *kyang. kibble² (kib'l), v. i.; pret. and pp. kibbled, ppr. kibbling. [kibble², n.] To hoist ore or refuse in a mine-bucket or kibble.

kibosh (ki-bosh' or ki-bosh'), n. [Also kybosh, kye-bosh; origin obscure, but prob. a sponaneous emphatic word of purposely indefinite character, $\langle ki., ka., ker.,$ a vague introductory syllable (see *ker.), + *bosh, an emphatic syllable (prob. sometimes associated with the historical word bosh, nothing, stuff, nonsense, a word of Turkish origin which came into English use at about the same time). As the word never had a definite meaning, it served as a convenient substitutionary word where emphasis was to be conveyed or precise words were lacking at the moment. Compare the emphasis was to be conveyed or precise words were lacking at the moment. Compare the similar vague substitutionary uses of thing, jig, bob, thingumbob, stuff, etc.] 1. Something indefinite; a thing of any kind not definitely conceived or intended: as, I'll give him the kibosh. [Slang.] N. and Q., 9thser., VII. 277.—2. The thing in question; the stuff: as, that's the proper kibosh. [Slang.] Hence, specifically—3. The stuff used in filling cracks or giving finish or shadow to architectural sculptures, namely, Portland cement. "Where's the kubosh?"... is a query... constantly

"Where's the kybosh?"... is a query... constantly overheard where architectural sculptors are at work.

N. and Q., 9th ser., VII. 277.

N. and Q., 9th ser., VII. 277.

4. Wages; money. Eng. Dial. Dict. (s. v. kybosh). [Cornwall.]—5. Affectation; display; pretense. Eng. Dial. Dict. (s. v. kybosh). [Cornwall.]—6. Stuff; nonsense; rubbish; bosh. [Slang.]—To put the kibosh on. (a) To subject to the thing vaguely threatened, that is, to put an extinguisher on; finish off; do for (a person); put to silence. [Slang.]

"Hoo-roar," ejaculates a pot-boy in parenthesis, "put the kye-bosk [read kyebosh?] on her, Mary!"

Dickens, Sketches by Boz, Seven Dials. It was attending one of these affairs which finally put

It was attending one of these affairs which finally put the 'kibosh' on me. C. Roberts, Adrift in America, i. (b) To put the finishing touches on; perfect (one) in his trade. N. and Q., 9th ser., VII. 277. (c) Intransitively, to do one's best. [Slang.]

kibosh (ki-bosh' or ki-bosh'), v. t. [kibosh, n.] 1. To finish off; knock out; squash completely; end. Eng. Dial. Dict. [Slang.]—2. To throw kibosh, or Portland cement, upon (carved stonework) with a blowpipe and a brush, so as to enhance the shadows. N. and Q., 9th ser., VII. 277.

kick, v. I. trans. 6. In cricket, to cause (the ball) after pitching to rise higher than usual: said of the bowler, and also of the ground or the wicket.—To kick down, to bore (a well) by a drill worked as follows: A wooden casing is sunk in

the ground or rock for a few feet and the boring-tool works inside of and is guided by this casing. The tool



is suspended from the free end of a horizontal hickory pole which is supported only at one end. One or more stirrups are suspended by ropes from the pole near the drill, and each operator places a foot in a stirrup. The tool is moved or kicked down by the pressure of the operators' feet and rises by the spring of the hickory pole. The tool is rotated somewhat at each stroke by the operators.

II. intruns. 6. In cricket, to rise after being bowled higher than usual from the pitch; bump: said of the ball.

kick, n. 11. In archery, the unsteady motion of an arrow at the beginning of its flight caused by the faulty drawing or loosing of the bow.—12. In elect., a high-voltage current or discharge of short duration appearing in inductive electric circuits when the conditions of the circuit are changed, especially when it is opened.—Free kick, in foot-ball, a kick made when the opponents are restrained by rule from advancing upon the kicker.—Kick of the rudder (naut.), the jerk of the rudder.—Kick of the rudder (naut.), the jerk of the rudder.—Kick of the rudder (naut.), the jerk of the sudden outward, and therefore also downward, push due to the hypothetical sudden expansion of the rupidly ascending air within a thunder-cloud. To this 'kick' the sudden temporary rise of pressure recorded on barograms is attributed, as is also the outblowing squall-wind.—Kick of the wheel (naut.), the jerk of the wheel due to a sharp movement of the rudder-head caused by the action of the sea on the rudder.—Place kick. Usually, in a place kick, a player lies at full length on the ground, holding the ball and pointing it as directed by the kicker, who gives a signal for it to be placed on the ground and immediately kicks it before the opponents can advance to block the kick. Ordinarily a try at goal, after a touch-down, is made by a place kick.

kick-ball (kik'bâl), n. A name for foot-ball.

kick-down (kik'doun), n. The apparatus used in inductive electric circuits when the condi

kick-down (kik'doun), n. The apparatus used in kicking down. See to *kick down.

kicker, n. 3. Naut., the propeller of a small launch.—4. In cricket, a ball which kicks or bumps, that is, which rises higher than usual oumps, that is, which rises higher than usual after pitching.—5. In poker, a card held up with a pair, usually an ace or king.—6. The reversing gear of some direct-acting steam and hydraulic pumps.

kicking-coil (kik'ing-koil), n. In elect., a re-

kicking-colt (kik'ing-költ), n. The spotted touch-me-not or jewel-weed, Impations biflora.

Also called kicking-horses. kicking-horses (kik'ing-hôr'sez), v. as *kicking-cclt.

as *kicking-jacket (kik'ing-jak'et), n. A device to prevent a horse from kicking. It consists of two wide straps which pass over the horse's rump, one at the crupper, the other at the loin, connected at the ends by straps secured to rings at the ends of the main straps, to which are also attached two looped straps at each end. The loop-straps buckle around the shafts.

kick-out (kik'out), n. In foot-ball, a drop kick, punt, or place kick made by a player of that side which has made a safety or a touch-back:

kick-plate (kik'plat), n.

kick-wheel (kik'hwel), n. A primitive form on both sides.
of the potters' wheel operated by the foot of kill, v. t. 6. In leather-manuf., to remove the the workman.

In 1863 a great demand aprang up [in the Southern States] for earthen jars, pitchers, cups and saucers, and the fire-brick works were partially transformed into a manufactory of such wares, which were produced in large quantities by negro men and boys, who employed the old-fashioned "kick-wheel" in their manufacture.

E. A. Barber, Pottery and Porcelain of the U. S., p. 250. kid¹, n. 7. pl. In astron., a pair of small stars in the constellation Auriga, represented as kids held in the hand of the charioteer.— Undressed kid, light goatskin finished on the flesh side, usually intended for gloves.

for brush (kid'brush), n. A soft brush used for brushing the grain of goatskins during the process of finishing. C. T. Davis, Manuf. of Leather, p. 367.

kidder² (kid'er), n. A fence of stakes in a river used as an obstruction to vessels; also,

tangling fish. kidder-net (kid'ér-net), n. Afish-net stretched

between stakes in a river.

kiddly-benders (kid'li-ben'derz), n. Same as kittly-benders. Also tiddly-benders and tids.

kiddush (kid'ösh), n. [Heb., < kadash, sanctify.] In Jewish use, a form of sanctification tify.] In Jewish use, a form of sanctification of the Jewish sabbaths and festivals. At the end of the evening prayer on Friday, the hazzan, or reader of the synagogue, 'makes kiddush,' that is, he says a blessing over a cup of wine. The same ceremony is performed at home by the master of the house, who recites the last two words of verse 31 of the first chapter of Genesis and the following three verses (Gen. ii. 1-3). He then says a blessing, sips a little of the wine, and passes the cup to the other members of the family.

kid-finished (kid-fin'isht), a. Dressed and finished so as to be soft and pliable.

ished so as to be soft and pliable.

kid-kill (kid'kil), n. Same as *kill-kid.

kidney, n. 5. In min., a concretion shaped like a kidney.

The coal has been intensely crushed and affected, probably by a shearing movement of the inclosing sandstone, so that the bed is not well defined, but the coal was found in lenses and kidneys often as large as 8 feet thick and 13 feet long.

feet long.

Contrib. to Econ. Geol., U. S. Geol. Surv., 1902, p. 278.

Contrib. to Econ. Geol., U. S. Geol. Surv., 1902, p. 278.

Amyloid kidney, a kidney which is undergoing lardaceous or waxy degeneration.—Hind kidney, the posterior portion of the vertebrate kidney; in amniote vertebrates, the metanephros, or true kidney.—Wandering kidney. Same as noating kidney (which see, under kidney.—Waxy kidney.—Same as amyloid *kidney.

kidney-paved (kid'ni-pāvd), a. Paved with cobblestones. [Eng.]

kidney-plece (kid'ni-pās), n. A cam having an outline somewhat resembling that of a kidney.

kidney-table (kid'ni-tā'bl), n. A table, usually a writing-table, the top of which is kidney-shaped or is imagined to be so.

kidney-worm (kid'ni-werm). n. Any parasitic

kidney-worm (kid'ni-werm), n. Any parasitic worm which infests the kidneys of man or lower animals, as Eustrongylus gigas, the giant strongyle or giant kidney-worm found in the horse, and Sclerostoma pinguicolum, which infests the kidney, lungs, and other parts of the hog, and is called lard-worm when found in leaf-lard.

8 (kēs), n. [G., gravel, etc.; see *chesil.*] German term for the sulphid ores, espekies (kēs), n. cially those involving iron and copper: now adopted into English. J. F. Kemp, Handbook

of Rocks, p. 196 (1904).

kieye, n. [Amer. Ind.] A fish, Argyrosomus hoyi, of the family Salmonidæ, found in

the deep waters of Lake Michigan.
kifussa (ki-fö'sä), n. [W. African.] A disease of the natives of West Africa, probably the sleeping-sickness.

kiku (kë'kö), n. [Jap. kiku.] The chrysan-themum, extensively used as a decorative motive in Japanese art. In conventionalized form it constitutes the imperial crest of Japan. See kikumon.

kil, v. and n. A simplified spelling of kill. kilampere (kil'am-par'), n. Same as *kiloampere.

kileh (kē'le), n. [Turk. kileh.] A Turkish measure of capacity equal to 0.912 of an imkileh (kē'le), n. perial bushel.

kilem (kī'lem), n. The term proposed in 1860 by G. J. Stoney, as an English equivalent of the French kilometre.

kick-out (kik'out), n. In foot-ball, a drop kick, punt, or place kick made by a player of that kiley (ki'li), n. [Also kylie; aboriginal Ausside which has made a safety or a touch-back: trailan.] A boomerang. [West Australia.] it is the method of again putting the ball in play.

kick-plate (kik'plāt), n. A broad metal plate placed at the bottom of a door to protect it against injury.

A primitiva form

natural grease from (the skin) in making furs or robes from hair skins. C. T. Davis, Manuf. of Leather, p. 496.—7. In tennis, to strike (the ball) with such force as to make it impossible for the opponent to return it.— Killed spirits of salts. See *sal(1.—To kill the sea (naut.), to reduce the violence of the sea: said of a heavy rain which sometimes acts upon the surface of the water in such a way as to keep it from breaking.—To kill the wind (naut.), to cause the wind to die away: sald of a heavy shower.

Till 1 **2 An animal that has been killed

2. An animal that has been killed, as by a beast of prey or by a sportsman; a

bag of game. killcrop (kil'krop), n. [G. kielkropf. uncertain.] In popular tradition, a child born with an insatiable hunger; one who can eat and eat and is never the fatter: supposed to be a fairy changeling.

a series of stakes placed across a river for en- kill-devil, n. 3. Among sailors, etc., alcoholic spirits of bad quality; a strong raw liquor. See the quotation under rumbullion.

killer, n. 4. A contrivance for killing large ferocious animals. It consists of an elastic strip of hard material, which is colled up, tied together with sinew, and inclosed in a bait. When swallowed the sines is digested, and the coil unwraps and tears the intestines of the animal. It is used by Eskimos and Chukchees for killing wolves, and by the Samoans for killing sharks. Amer. Anthropologist, April-June, 1901, p. 391.

5. The technical name among house-painters for a partyping receil to apply the property receil locally.

for anything used to prevent resin, locally present in woodwork, from exuding and making visible spots on the painted surface; also, in a more general sense, any substance used to remove spots on such surfaces.

killing, n. 2. In the manufacture of steel, the practice of stopping or preventing the evolution of gas in the steel. Steel is most commonly killed with silicon or aluminium. Phillips and Bauerman, Elements of Metallurgy, p. 348.

killing-circle (kil'ing-ser'kl), n. See pattern.

kill-kid (kil'kid), n. The lambkill, Kalmia angustifolia.

kill-time (kil'tim), n. and a. I. n. Something, as a social amusement or a more serious occu-pation, entered into to kill time or the sense of time; a pastime.

That which as an occasional pastime he might have thought harmless and even wholesome, seemed to him something worse than folly when it was made a kill-time, — the serious occupation for which people were brought together.

Southey, Doctor, lxv.

II. a. Capable of killing time: as, a kill-

time sport; a kill-time novel.
kill-wart (kil'wart), n. The celandine, Chelidonium majus. Also called wartweed.

donium majus. Also called wartweed.

kiln, n.—Annular kiln. Same as *ring-kiln.—Beehive kiln, a round, up-draft kiln used by potters for
burning common ware.—Calcining kiln. See *calcine.

—Continuous kiln, a brick-kiln so constructed that the
heat which passes away from the already burnt brick is
utilized to heat the green brick entering the kiln. See
railway *kiln, Hofman *kiln, and *ring-kiln.—Dietzeh
kiln, a vertical cement-kiln, similar to the lime-kiln,
having certain conveniences for exposing the material at
different stages of the burning, so that the burner can
have access to it: used chiefly in Germany.—Downdraft kiln, a brick- or pottery-kiln in which, by a peculiar construction, the draft is deflected downward. See
the extract.

the extract.

The most rational kilns, then, are those working on what is known as the "down draught" principle. In these the gases rise from the fire-places to the crown against which they strike and are compelled to descend between the bungs of saggars or of ware to the flues under the floor which lead to a center tunnel connected with the stack. The striking against the crown of the kiln, the horizontal movement under the same, with the mixture effected by the impeding tops of the bungs of the ware and the downward movement, most effectually breaks up any tendency of the gases to move in separate channels.

Langenbeck, Chem. of Pottery, p. 183.

Decharse being a veriety of the Hoffman kiln in which

breaks up any tendency of the gases to move in separate channels.

Langenbeck, Chem. of Pottery, p. 183.

Dueberg kiln, a variety of the Hoffman kiln in which the fire travels around a continuous circuit. Cars are loaded with green brick, which remain at rest during the process of firing and are drawn out after the kiln has sufficiently cooled.—Dunnachie kiln, a variety of regenerative kiln for burning fire-bricks, invented by James Dunnachie of Lanark, Scotland.—Dutch kiln, an open brick-kiln having a temporary roof which is removed when the kiln becomes sufficiently heated.—Gerstenhöfer kiln, a form of pyrites-burner used in the manufacture of sulphuric acid by the lead-chamber process. A vertical shaft of fire-brick has arranged in it a number of fire-clay bars in successive tiers, from one to another of which the pyrites, crushed to a moderately fine powder, drops in the midst of an ascending current of hot air, the sulphur becoming converted into sulphur-dioxid gas, which is drawn off through a flue at the top, while the oxid of iron formed is removed at the bottom of the shaft.—Hoffman kiln, a kiln of the ordinary type of continuous-burning kilns, devised by Frederick Hoffman of Berlin: one of the most valuable inventions in ceramic art. See the extract.

The burning chamber of the Hofman kiln consists of an endless tunnel of an annular shape, either circular, or elliptic, or oblong in plan. This endless tunnel is successively filled with green brick, and after the fire has passed through, leaving the burned brick behind, they are successively taken out when sufficiently cooled down; soon afterward they are replaced by green brick.

C. T. Davis, Manuf. of Bricks, p. 266.

Mendheim kiln, a variety of continuous brick-kiln. See

The Mendheim kiln consists of a combination of a series of arched burning chambers, connected with each other by flues, so as to form a complete circuit. These kilns are fired by gas and the fire proceeds from one chamber to another, passing through the flues, thus travelling around similarly as in the Hoffman kiln.

C. T. Davis, Manuf. of Bricks, p. 272

C. T. Davis, Manuf. of Bricks, p. 272
Railway kiln, a continuous kiln in which the bricks are slowly moved on cars, by means of a screw, during the process of burning. The green bricks are loaded at one end of a long, straight tunnel in the middle of which the fire is burning. As they near the other end they are gradually cooled by a current of air which flows in the opposite direction, passes through the fire, and escapes through a chimney where the green bricks are introduced.

Regenerative kiln, a brick-kiln of peculiar construc-

The objects of all late improvements in the regenerative kilns are to thoroughly mix the air and gas burned in such kilns and to effect a better diffusion, regulation, and equalization of the heat obtained from their combustion.

C. T. Davis, Manuf. of Bricks, p. 272.

C. T. Davis, Manuf. of Bricks, p. 272.

Ring kiln. See *ring-kiln.—Rotary kiln, an apparatus devised for the burning or calcination of cement. It consists of a cylinder slightly inclined, supported by rollers, and revolving slowly—about once a minute. The material is fed in at the upper end and works gradually downward, falling out at the lower end.—Running kiln, a line-kiln that is fed from above and delivers continuously below.—Up-draft kiln, a kiln in which the draft and burning gases are introduced at the bottom, pass through the ware, and escape at the top.

kiln-dry (kil'dri), v. t. To dry in a kiln, as lumber, fruit, etc.
kilnman (kil'man), n.; pl. kilnmen (-men). A workman who tends a kiln or oven in a pottery;

an ovenman.

kilo-. [F. kilo-, a definitely phonetic spelling of chilo- (with ch = k), this standing for chilio-, $\langle Gr. \chi i \lambda \omega u, a$ thousand: see chiliasm, etc.] In the nomenclature of the metric system, a prefix meaning 'thousand,' as in kilogram, kilometer. etc.

kilo-ampage (kilo-ampage (kilo-a kilo-.

kilo-ampere (kil'ō-am-par'), n. One thousand amperes or one hundred c. g. s. units: a prac-

amperes or one hundred c. g. s. units: a practical unit of current.

kilocalory (kil'ō-kal'ō-ri), n.; pl. kilocalories
(-riz). [Also kilocalorie; kilo-+ calory.] The
quantity of heat required to raise one kilogram of water from 0° C. to 1° C. or, sometimes, from 15° C. to 16° C.; one thousand
gram-calories or lesser calories; a greater calory.

kilo-erg (kil'ō-erg), n. [kilo- + erg.] A practical unit of energy equal to 1000 ergs.

kilogauss (kil'ō-gous), n. [kilo- + gauss.] A flux-density of 1000 lines per square centimeter: a practical unit of magnetic flux-density

or magnetic induction.

Rilogram calory. See **calory. — Rilogram-centigrade heat-unit. See **heat-unit. — Paris kilogram, a name by which the international standard of weight or prototype preserved in the Archives of Paris is sometimes designated.

kilogram-molecule (kil'ō-gram-mol'e-kūl), n.

one thousand maxwells.

kilometric (kil-ō-met'rik), a. Of or pertaining to a kilometer; measured in kilometers. kilometrical (kil-ō-met'ri-kal), a. Same as

*kilometric kilovolt (kil'ō-vōlt), n. [kilo- + volt2.]

practical unit of electromotive force equal to 1000 volts or 1 × 10¹¹ c. g. s. units.

kilovolt-ampere (kil'ō-volt-am-pār"), n. In elect., a practical unit of power; a kilowatt.

kilowatt-hour (kil'ō-wot-our), n. The energy developed in one hour by a kilowatt of power or activity: a practical unit of energy the practical unit of energy.

or activity: a practical unit of energy.

kilowatt-meter (kil'ō-wot-mē'ter), n. An
instrument for the measurement of electrical

instrument for the measurement of electrical power so graduated as to read in kilowatts. **kilowatt-minute** (kil'ō-wot-min'it), n. A practical unit of work; the work done in one minute by a machine developing one kilowatt of power; 60,000 joules. **kilowatt-second** (kil'ō-wot-sek'und), n. A practical unit of work; the work done in one second by a machine developing one kilowatt of power; 1000 joules. **kilowatt-second** (kil'ō-wot-sek'und), n. A practical unit of work; the work done in one second by a machine developing one kilowatt of power; 1000 joules. **kilowatt-second** (kil'ō-wot-sek'und), n. A practical unit of work; the work done in one second by a machine developing one kilowatt of power; 1000 joules. **kinesigraph** (ki-nē'si-grāf), n. [Gr. κίνησις, motion, + γράφειν, write.] In photog., a form of kinesimeter (kin-ē-sim'e-ter), n. [Gr. κίνησις, motion, + μέτρον, measure.] In exper. psychol., way.

2. In poker, a hand with no card above a nine. no pair, and no chance to make either flush or straight.

kiltorcan beds. See *bed1.
kilty (kil'ti), n.; pl. kilties (-tiz). [kilt1 + -y2.]
In the British army, a nickname for a Highland soldier. J. Ralph, An American with Lord Roberts, p. 55.

cimberlite (kim' ber-lit), n. [Kimberley + -ite².] In petrog., a dense porphyritic peridotite, occurring at Kimberley, South Africa, kimberlite (kim'ber-līt), n. partly serpentinized with phenocrysts of oli-vin and with a few of biotite, bronzite, ilme-nite, perovskite, and pyrope. In places it has a

spherulitic texture resembling chondri. It is partly brecciated and carries diamonds and fragments of carbonaceous shales. Carvil Levis, 1887.

kimisa (ki-mē'sā), n. [Indian adoption of Sp. camisa: see camise, chemise.] In British Guiana, a coarse cotton garment worn by the semicivilized Indian women and sometimes by the negresses. It is made like a petticoat, but is drawn up and fastened over one shoulder, the other being left bare.

kin⁵ (kin), n. Same as *kine³.

kina (kē'nā), n. Same as quina.

kinæsthesiometer (kin-es-thē-si-om'e-ter), n.
[kinæsthesia + Gr. μέτρον, measure.] An instrument for determining the degree of mus-

strument for determining cular sense or kinæsthesia.

Kinah (kē'nä), n.; pl. Kinoth (kē'nōt). [Heb. qināh.] In Jewish use, lamentation: the name of the liturgy for the fast, on the 9th of Ab, commemorating the destruction of the temple. It contains dirges and the book of Lamentations.

Kinaki (kē-nā'kē), n. [Maori.] Anything the destruction of the sake of variety with other food for the sake of variety.

Before the formation of the protetrads the thread presents of the first the fi

kina-kina (kē'nā-kē'nā), n. Daniele kina-kina (kē'nā-kina), n. [Gr. κιν(εῖν), move, +-ase.]

A ferment-like body which is capable of rendering physiologically active another ferment and thus produces chemical changes in a third body while in itself it is apparently a third body while in itself it is apparently kinases problematic trypsin active and thus rendering trypsin active and thus rendering physiologically active another ferment and thus produces chemical changes in a third body while in itself it is apparently which specially be some special two demi-dyads which will pass into the same spermatid.

Sinesiscope (ki-nē's-is-kōp), n. [Gr. κίνησις, motion, + σκοπέν, view.] An instrument designed to rest on the sea-bottom and detect electrically the approach of steamships.

vegetable world. kinch (kinch), (kinch)nose of a horse.

kind², n.—Consciousness of kind. See *consciousness.—Course of kind. See *course1.—Out of kind, out of the original or natural breed or variety.

Their stubbornness is but a strong hope malignified, or, s we say, grown wild and *out of kind*.

T. Jackson, Eternal Truth of Scripture.

kilogram-molecule (kil'ō-gram-mol'e-kūl), n. A quantity of an element or compound whose weight in kilograms is numerically equal to its molecular weight; one thousand gram-molecules. kilojoule (kil'ō-joul), n. [kilo- + joule.] A practical unit of energy equal to 1000 joules or to 1 × 1010 ergs.

kilom. An abbreviation of kilometer.

kilomaxwell (kil'ō-maks'wel), n. [kilo- + maxwell.] A unit of magnetic flux equal to me thousand maxwells. tively, the kine is a velocity of one centimeter

per second.

Kinematic curve, geometry. See *curve, *geometry.

- Kinematic curve, see *curve * *geometry.

- Kinematic method. See altitude of a *cloud.

kinematograph (kin-ē-mat'ō-grāf), n. Same
as *cinematograph.

as *cinematograph.

kinematographic, kinematographical, a.

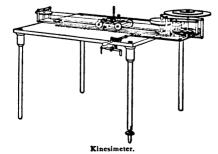
Same as *cinematographic, *cinematographical.

kinemometer (kin-ē-mom'e-tèr), n. An instrument for determining the speed of vehicles.

kinenegative (kin-ē-neg'a-tiv), n. [Gr. κίνη-(σις), motion, + Ε. negative.] In photog., the negative of a film, ribbon, or other support from which pictures are taken for projection in a cinematograph.

kinesalgia (kin-ē-sal'ji-ā), n. [NL., < Gr. κίνησις, motion, + άλγος, pain.] Pain excited by movement.

kinesalstrics (ki-nē-si-at'riks) n. [Gr. κίνησις



an instrument devised by G. S. Hall, and described in 1885 by H. H. Donaldson, for tl.# scribed in 1885 by H. H. Donaldson, for ft.e exploration of the cutaneous surface. The kinest-meter consists essentially of a metal table the top of whice is furnished with a sit and grooves for the reception of a traveling car. The car is connected by belting to a set of friction-gears turned by an electric motor. On its under surface, the car carries a swinging point of hard rubber or metal, so counterpoised as to move without friction or acceleration over the surface of the skin. The skin may thus be examined for sensations of pressure and temperature, or for the limits of the perception of movement.

kinesiology (ki-nē-si-ol'ō-ji), n. [Gr. κίνησις, motion, + -λογια, < λέγειν, speak.] The science of exercise, especially as a hygienic or

expression for *karyokthesis*.

Before the formation of the protetrads the thread prepared for the first maturation division undergoes a first longitudinal division, which effaces itself. At the first metaphase there is a second division (longitudinal) which appears preparatory to the second *kinesis* and does not efface itself, but is useless, since it separates two demi-dyads which will pass into the same spermatid.

Jour. Roy. Micros. Soc., Oct., 1904, p. 529.

kinesthetic, a.—Principle of kinesthetic equiva-lents. See *equivalent.—Kinesthetic memory. See *memory.

kinetically (ki-net'i-kal-i), adv. In a kinetical manner.

kinetocamera (ki-nē-tō-kam'e-rā), n. camera so arranged as to photograph successive phases of a movement; a cinematograph. Scripture, Exper. Phonet., p. 30.

kinetogenetic (ki-ně'tō-jē-net'ik), a. [Gr. kivytōc, movable, + yéveac, origination (see genetic).] Developing or bringing about movement.

Its action is so constant an accompaniment of development that the forces of the latter may be divided into the kinetogenetic, or those that develop movement, and the statogenetic, or those that develop rest or equilibria amongst the parts of the germ.

J. A. Ryder, Biol. Lectures, 1896, p. 46.

kinetogram (ki-ne 'tō-gram), n. [Gr. κυνητός, movable, + γράμμα, anything written.] In photog., a picture for projection by the cinematograph.

kinetograph (ki-nē'tō-graf), n. [Gr. κινητός, movable, + γράφειν, write.] A device for taking a series of photographs of a moving ob-

kinetographer (kin-ē-tog'ra-fer), n. One who takes pictures for or uses a kinetograph.

kinetographic (ki-nē-tō-graf'ik), a. Of or pertaining to the kinetograph; obtained or made by means of the kinetograph.

kinetography (kin- \bar{e} -tog'ra- \bar{n}), n. [Gr. kin γ fo, movable, +- γ pa φ ia, $\langle \gamma$ pa φ e ν , write.] In photog.: (a) The art or practice of taking pictures of moving objects for projection by the kinetograph or cinematograph. (b) The projection of such pictures on a screen.

kinetophonograph (ki-nē-tō-fō'nō-grāf), n. A combined phonograph and kinetograph. By the use of these instruments a scene enacted may be reproduced at any other time and place, the voices of the actors being heard while their performance is witnessed.

kinetoscope, n. **3**. An apparatus invented by Edison for exhibiting photographic pictures Edison for exhibiting photographic pictures of objects in motion. Its essential parts are a ribbon containing the pictures, a mechanical device for causing the pictures to pass rapidly in succession under a lens or sight-piece, a lamp for illuminating the pictures, and a mechanical device for causing a circular revolving screen to move rapidly before them. A slot is cut in this screen, and its revolutions are so timed that the slot passes before each picture just as it is in line with the eyepiece. The effect is to give a view of each picture in succession, and to cut off the view as the picture is moved forward. The apparent result to the eye is a continuous picture in which the objects photographed appear to be in motion.

kinetoscopic (ki-nē-tō-skop'ik), a. Pertaining to or having the nature of a kinetoscope.

This method has been so simplified that little books of cinetoscopic views are sold, from which the moving effect

o obtained by simply letting the leaves escape rapidly rom the thumb as the book is bent backwards.

*Encyc. Brit., XXVII. 95.

kin-fun (kim-pung'), n. [Jap. kin-pun, pron. kim-pun (kim-pung'), from kin, gold, + fun, powder.] A powdered gold lacquer. kin-pun (kim-pung'), from kin, gold, + fun, Also queen-of-the-meadow.

king¹, n. 6. The male of a termite or white king-parrakeet (king'par'a-ket), n. Same as

Virgin queens show marked preference or dislike toward certain kings; queens having once mated permit no close approach of an alien king, and do not respond to the attentions of kings of their own lineage; they may drop their wings without assistance from workers; light and warmth appear to be required for the stimulation of the king and queen to mating.

Jour. Roy. Micros. Soc., Feb., 1903, p. 35.

7. The perfect female bee. The queen bee was formerly known by this name.

Mould seem a repetition and a bore.

J. H. Frere, Monks and Giants, iv. 22 (1817).

King Arthur, a game played by British man-of-war's-men in the tropics. One of the crew is chosen by lot to represent the 'king,' and allows buckets of sea-water to be thrown over him until one of his fellows is detected laughing at his absurd efforts to dodge the deluge: the one so detected then takes the king's place.—King bird of paradise, Ciccinurus regius, a small species, which occurs in New Guinea and several other islands. The male is of a brilliant red color.—King of the herrings. (c) In Australia, the elephant fish.—King of the herrings. (c) In Australia, the elephant fish.—King of the mackerels, Ranzania truncata, a fish of the family Moidiz: regarded by the Hawaiian Islanders as the king of the mackerels and tunnies.—King of the mullets. (b) Apogon imberbis; a fish of the family Cheiiodipterides, found in the Mediterranean Sea.—King's bargain (naut.), a meritorious sallor on a British naval vessel.—King's bencher (naut.), asea-lawyer; a trouble-making member of the crew of an English man-of-war. [Eng.]—King's blue. See *blue.—King's gambit declined. See *gambit.—King's Knight's defense. Same as Berkin *defense.—King's Knight's gambit, opening. See *gambit, *gopening.—King's letter man, formerly, in the British service, an officer of the rank of midshipman who held the soverelgn's word that a letter of recommendation from his captain, after a certain period of experience, would secure for him a lieutenant's commission.—King's often observed the same of the rank of midshipman who held the soverelgn's word that a letter of recommendation from his captain, after a certain period of experience, would secure for him a lieutenant's commission.—King's see *gambit.—King's side, in chess, that side of the board on which the King stands, embracing the King's, King's Bishop's, King's Knight's, and King's Rook's filea.—King's widow, in feudal law, a widow of a principal tenant or vassal of the king, who was compelled to take an oa

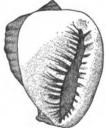
an increase of the distance between the tie and the compression pieces.

king-conch (king-kongk), n. A helmet-shell, Cassis madagascariensis, from the West Indies, used in cameo-cutting.

kingcup, n. 2. The marsh-marigold, Caltha palustris.

Kingdom, n.—The Flowery
Kingdom, the Chinese empire: a partial translation of
Chinese Chung hva kwoh,
'Middle flowery kingdom.'
The usual term is Chung kwoh,
'Middle kingdom,' a geographical expression. 'Flowery'
is a rhetorical addition.
—The Middle Kingdom,
China.

king-eagle (king' $\bar{e}'gl$), n. The imperial eagle. See eagle, 1.



King-conch (Cassis me gascariensis).

Kingena (king-ē'nā), n. [NL.] A genus of fossil brachiopods of the family Terebratulidæ. They have round or oval shells with a large foramen and a loop the descending lamelle of which are wholly or partly coalesced with the median septum.

king-fluke (king'flök), n. Same as turbot, 1.

And everywhere the people, or the populace, take their own government upon themselves; and open 'kinglessness,' what we call anarchy, . . . is everywhere the order of the day. Such was the history, . . from end to end of Europe, in those March days of 1848.

Carlyle, Latterday Pamphlets, No. 1.

king-lory (king'lo"ri), n. Same as *king-

comus, related to the guereza. Its general color is kinoplasmic (kin-ō-plaz'mik), a. [kinoplasm black, but a mark on the forehead, a fringe on the throat +-ic.] Of or pertaining to kinoplasm and chest, and the tuft on the end of the tail are white.

*king-parrot.

king-parrot (king'par'ot), n. A name of somewhat vague application, but generally given to an Australian lory, Aprosmicius scapulatus, which has a brilliant red head and neck, green back and wings, and dark blue tail. Also known as king-parrakeet and king-lory. The female, of a dull green, with dull blue tail, is known as the queen-parrot.

Also king king-pot (king'pot), n. The central and largest crucible used in the manufacture of bronze.

Bees served me for a simile before
And bees again—"Bees that have lost their king,
Would seem a repetition and a bore.

J. H. Prere, Monks and Giants, iv. 22 (1817).

**Thur. a game played by British man-of-war's-men the last row of squares on each side on which the pieces which are to be crowned or made the pieces which are to be crowned to be

king's-crown (kingz'kroun), n. Same as king's-

king's-cure (kingz'kūr), n. The pipsissewa or prince's-pine, Chimaphila umbellata; also, the spotted wintergreen, C. maculata.
king-spoke (king'spōk), n. Naut., a spoke of the steering-wheel, usually distinguished by a mark of some kind, which is directly over the barrel-hub when the rudder is amidships.

king's-rod (kingz'rod), n. A hardy, herbaceous perennial of the lily family, Asphodelus ramosus, a native of southern Europe, bearing large white flowers having a refdish-brown line in the middle of each perianth segment and arranged in very long, dense racemes.

kingston (king'stun), n. [Also kingstone, kin-son; origin conjectural.] The angel-fish or monk-fish, Squatina vulgaris, one of the elas-mobranchiate fishes found on the coasts of Great Britain.

king's-tree (kingz'trē), n. A medium-sized tree of the family Loganiaceæ, Strychnos Atherstonei, native to South Africa, the twigs of which are used by the Kafirs for preparing ceremonial staffs.

king-ball (king'bâl), n. In bagatelle and simi-kinit (kin'it), n. [kine 3 + (un)it.] Same as lar games, the object-ball.

king-bolt, n. 3. An iron rod in a roof- or kin-kan (kēn'kan'), n. [Jap.] A Japanese bridge-truss, used in place of a king-post to name for the little orange-like fruit more prevent the inclined members from allowing commonly known as cumquat. It is a dwarf commonly known as cumquat. It is a dwarf species, Citrus Japonica, now grown to some extent in the southern United States.

kinko (kēn'kō), n. The trepang or bêche-demer.

kinnor (kin'ōr), n. [Heb.] An ancient Hebrew instrument, probably of the zither or lyre class, but possibly a harp: translated 'harp' in the English Bible.

kinocentrum (kin-ō-sen'trum), n.; pl. kinocentra (-trä). [NL., irreg. < Gr. κινείν, move, + κέντρον, center.] The centrosome regarded The centrosome regarded as a motor center of the kinoplasm. The movement of cilia and of the tail of the spermatozoa is supposed by some cytologists to have its origin in the centrosome. Opposed to *chemocentrum* (the nucleus of the

kinodrome (kin'ō-drōm), n. [Gr. κίν(ησις), motion, + -δρομος, < δραμεῖν, run.] An instrument for exhibiting moving pictures. Kansas City Daily Times, Oct. 14, 1903.

kinoic (ki-nō'ik), a. $[kino^1 + -ic.]$ Of or pertaining to kino.

kinoin (kē'nō-in). n. [kinoi + -in².] A color-less crystalline substance, C₁₄H₁₂O₆, obtainable in small quantity from kino. It does not precipitate a solution of gelatin, but is con-

kinglessness (king'les-nes), n. The state of having no king: used by Carlyle to denote a state of anarchy.

And everywhere the people, or the populace, take their own government upon themselves; and open 'kinglessness' what we call anarchy. . . is everywhere the order of the day. Such was the history. . . . from end to end of Europe, in those March days of 1848.

Carlyle Latterday Pamphlats No. 1

Verted by heating into kino-red.

kinoplasm (kin'ō-plazm), n. [NL. kinoplasma, anything formed.] In cytol., a general term for the order of the dell-cytoplasm. The kinoplasm is regarded as having fibrillar structure and as giving rise to motile structures like cilia and flagella. Opposed to *trophoplasm (nutritive plasma).

Carlyle Latterday Pamphlats No. 1

Stransformed.] Alatterday Pamphlats No. 1

**correct.* [Australia.]

kipperer (kip'ér-èr), n. One who kippers or cures fish. Nature, Sept. 4, 1902, p. 435.

kip's apparatus.

kip's appa

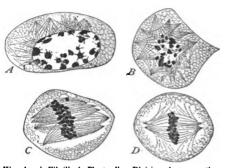
Strassburger also regards protoplasm as composed of two portions: a motile kinoplasm which is fibrillar, and a nutritive trophoplasm which is alveolar, in structure.

Encyc. Brit., XXXII. 42.

king-monkey (king'mung'ki), n. One of the kinoplasma (kin-ō-plaz'mā), n. [NL.] Same African horse-tailed monkeys, Colobus poly- as *kinoplasm.

The first indication of a spindle in these cells is the formation of a felted zone of kinoplasmic fibers surrounding the nucleus.

Bot. Gazette, Aug., 1903, p. 81.



Kinoplasmic Fibrillæ in Plant-cells. Division of spore mother-cells in Equisctum, showing spindle-formation. (Osterhout.)

A. early prophase, kinoplasmic fibrillæ in the cytoplasm; B. multi-polar fibrillar figure invading the nuclear area after disappearance of the nuclear membrane; C. multipolar spindle; D. quadripolar spindle which finally condenses into a bipolar one. Highly magnified. (From Wilson's "The Cell.")

kinoplastic (kin-ō-plas'tik), a. [Gr. κινείν, move, + πλαστός, < πλάσσειν, form.] Same as *kinoplasmic.

kino-red (kē'nō-red'), n. A red substance of a somewhat resinous character forming a constituent of kino and producible artifically from kinoin. It precipitates a solution of gelatin.

Kinorhyncha (ki-nō-ring'kä), n. pl. [NL., irreg. (Gr. κινείν, move, + ρύγχος, snout.] A class and order consisting of the single genus

Echinoderes. Dujardin.

kinosthenic (kin-os-then'ik), a. [Irreg. < Gr.
κινείν, move, + σθένος, force, + -ic.] Entering
into a mathematical expression only through a fluxion: applied to a coordinate as entering into an expression for a Lagrangian function.

kinotannic (kē-nō-tan'ik), a. [kino1 + tannic.] Noting an astringent acid contained in kino.

kinovin (ki-nō'vin), n. [Also chinovin, quinovin, \(\) kina (=china², quina) + L. ovum, egg (white). + -in².] An organic substance of neutral character, found in cinchona-bark, which on boiling with dilute acid yields kinovic acid and a sugar-like substance called kinovice. It appears to exist in two isomeric forms, the one occurring in true cinchona-bark, the other in cuprea-bark. Also called kinova bitter.

kinsen (kin-sen'), n. [Jap., < kin, gold, + scn, thread.] In Japan, gold wire, used for cloisons in enamel.

kinspeople (kinz'pē-pl), n. pl. Kinsfolk.

kinzigite (kint'sig-it), n. [Named from Kinzig valley, Black Forest, + -ite².] In petrog., a gneissic rock composed of oligoclase, biotite, garnet, and sometimes graphite. Fischer, 1860.

garnet, and sometimes graphite. Fischer, 1800. kioea ($k\bar{e}$ - \bar{e} - \bar{a} , \bar{a}), n. [Maori.] The Sandwich Island curlew, Numenius tahitiensis. Kionoceras ($k\bar{i}$ - \bar{e} -nos'e-ras), n. [NL., \langle Gr. κ iov, a pillar, $+\kappa$ epac, horn.] A genus of fossil nautiloid cephalopods characterized by its surface-sculpture, which consists of longitudinal ridges in the earlier stages, after which inconspicuous annuli appear which become obsolete before the ephebic stage. It ranges from the Silurian to the Carboniferous.

kip4, n. 2. A lodging-house; a bed in a lodging-house; hence, a bed in general. N. E. D. kip-leather (kip'levn'er), n. Bark-tanned side-leather finished on the flesh side with a wax finish.

tomentosa, of the Ismily Scrophulariacex, cultivated in Japan for its extremely light wood. It is never found in groves or in forests, but occurs scattered in more open places, growing like fruit-trees. Its grayish wood, in comparison with most other woods of light weight, is remarkably strong and does not warp or split easily. On account of its lightness and softness it is used in many ways, especially for the manufacture of small, light boxes, wooden shoes, lacquer ware, and toys. From its seeds an oil is obtained which in Japan is used for waterproofing paper. See Paulounia and kirimon.

kirin (kē-rēn'), n. [Jap. kirin, Chinese kilin, kissing-bug (kis'ing-a fabulous animal said not to tramp on live bug), n. Any one of insects or to eat live grass.] Same as kilin. several species of predkirk2 (kerk), v. t. Same as kirve.

The constrained attitudes which coal miners are compelled to assume while "kirking" or undercutting the coal seams result in nystagmus.

Buck, Med. Handbook, VI. 328.

kirkify (kér'ki-fi), v. t.; pret. and pp. kirkified, ppr. kirkifying. [kirk1 + -i-fy.] To make like the Scottish kirk in principles or like a kirk in architecture. N. E. D.

kirkward (kérk'wärd), a. and adv. [kirk1 + -vard.] Churchward; toward the church.

kirn², v. t. 2. In mining, to bore with a handjumper or kirner. [Scotch.]

kirner (kér'nèr), n. [See *kirn, v. t., 2.] In mining, a hand jumper; a churn-drill. [Scotch.]

kiroumbo (ki-röm'bō), n. [Malagasy.] A common name for the two species of peculiare birds included in the genus Leptosoma, found in goonnet fashionable about the

included in the genus Leptosoma, found in Madagascar.

kirri (kir'i), n. [Also keerie, kerrie, S. African D. kieri; from the Kafir name.] A short, heavy stick or club with a knob on one end, [Also keerie, kerrie, S. Afriused as both a striking and throwing weapon by the Bushmen and other natives of South Africa. Also called knobkerrie. Kirtlandia (kert-lan'di-ä), n. [NL., named after Jared P. Kirtland, an American ichthyol-



Kirtlandia vagrans (From Bulletin 47, U. S. Nat. Museum.)

ogist.] A genus of fishes, belonging to the family Atherinidæ, found on the coasts of North and Central America.

kirwanite (ker'wan-it), n. [Named (1833) after R. Kirwan, an Irish mineralogist.] A min-[Named (1833) eral, related to the chlorites, occurring green fibrous forms in the basalt of Ireland. occurring in

kischtimite (kësh'ti-mīt), n. [Named orig. in G. Kischtim-parisit, 'parisite of Kyshtymsk' (G. Kischtim), in the Ural, in Russia.] A fluocar-

parisite.

kisher, kishr (kish'er, kish'r), n. [Ar. qishr, rind, peel, shell, husk.] A favorite drink of the Arabians, especially in Yemen, made of an infusion of the husks or pods of the coffeeberry. Ratzel (trans.), Hist. of Mankind, III. 210.

Kishim - Attain to yokobuku and akamebuku.

kitar, kitar (ki-tär'), n. [Ar. kitār: see guitar.] An Arab guitar or lute, commonly with four pairs of strings.

kit-bag (kit'bag), n. A bag to hold a soldier's or sailor's kit.

We're bearded and we're distributed by the common like the coffeeberry. Ratzel (trans.), Hist. of Mankind, III. 210.

Kishiu pottery. See *pottery.

kishlak (kësh'läk), n. [Also kishlag; \ Turk. kishlāgh, kishlāq, kishlā, \ Turki qīsh-lāq, lit. 'winter place,' \ qīsh, winter, + -lāq, a suffix forming nouns of locality (as also in yaī-lāq, 'summer place,' mountain pasture).] In Turkestan, a place inhabited during the winter; winter quarters; also, any settlement or vil-

Right opposite the Indich Bashur, on the right side of the Shakh-Dara, there is a small kishlag, abandoned. Geog. Jour. (R. G. S.), XVL 674.

kism (kizm), n. A subdivision of an Egyptian

province.

riss. n. 4. A very slight, glancing touch. kiss, n. 4. A very slight, glancing touch. C. A small drop of sealing wax accidentally let A small drop of sealing-wax accidentary let-fall upon a letter near the seal.—Risectrolal kiss, an early experiment with the Leyden jar in which one per-son, standing on an insulating support, held the outer coating of a charged jar, while a second person touched the knob or wire connected with the inner coating. The jar was then discharged by bringing together the lips of the two operators.

We encrease the force of the electrical kiss vastly.

Franklin, Experiments and Observations on Electricfity, p. 10.

Kisses out and kisses in, in billiards, extra contacts that (sometimes foreseen without being meant, or feared without being guarded against) either prevent a count or cause one. As affecting position merely, 'kiss out' and 'kiss in' may be either designed or accidental.

kiss, v. t.—To kiss the book, to take an oath by kissing the Bible.

kissable (kis'a-bl), a. [kiss+-able.] That can be kissed; attractive, so as to invite a kiss. kissably (kis'a-bli), adv. In a manner to sug-

gest kissing.

kissage (kis'āj), n. Kissing. [Nonce-word for

the sake of a rime.]

Ere they hewed the Sphinx's visage
Favouritism governed kissage
Rven as it does in this age.

R. Kipling, Departmental Ditties, Gen. Summary, st. 3.

several species of predatory bugs of the family Reduviidæ. Applied notably to Opsicoetes personatus, Melanolestes picipes, Rasahus biguttatus, and Conorhinus sanguisugus. The name kisning-bug originated in the newspapers in June, 1899, many persons being bitten that summer and often on the lip.



Kissing-bug (Rasahus biguttatus). (Howard, U. S. D. A.)

A name given to various things of a presumably co-quettish or attractive nature: a small becom-ing bonnet fashionable about the middle of the nineteenth century; a lady's cap with ribbons that tied under the chin on one side with 'kissing-strings'; a short lock of hair curled in front of each ear, etc. The nam also given to the wild pansy. See kiss-me. The name is

kissybion (ki-sib'i-on), n.; pl. kissybia (- $\frac{\pi}{2}$). [Gr. $\kappa \sigma \sigma \circ \beta \iota \sigma \sigma$.] In Gr. antiq., a drinking-cup made of ivy-wood or decorated with ivy-leaves. It is mentioned several times in the Odyssey. It probably had a single long handle like the

kisu (kē'su), n. [Jap. kisz.] Same as *okig-

kisutch (kē'such), n. [Also keezitch; a native name.] The vernacular name in Alaska and Kamchatka, and also the technical specific name, of a kind of salmon.

kit¹, n. 5. An English fanciers' term for a small flock of pigeons, particularly tumblers. kit8 (kit), n. [Maori kete, Samoan and Tahitian ete, a basket, = Hawaiian eke, a bag.] A bag or basket woven of native flax, used by the Maoris. [Australia.]

kitamakura (kē-tä-mä'kö-rä), n. [Jap. kitamakura, implying 'one who sleeps with the head to the north,' (kita, north, + makura, pillow.] A Japanese name of a gymnodont fish, Eumycterias rivulatus. Also known as yokobuku and akamebuku.

or sailor's kit.

We're bearded and we're dirty,
As well as broken down:
So why the dickens don't they send
Our kit-bags from Capetown?

Grumbles from the Ranks, st. 5, in War's Brighter Side,
[p. 280.

kitchen, n. 3. In metal., the space between the fire and flue-bridges of a reverberatory furnace in which the work is performed. Also

called the *laboratory*. **kitchen-court** (kich'en-kort), n. In a large house, the court upon which the kitchen and its dependencies open by doors or windows, or both. The arrangement may be such that only one opening from the service part of the house communicates with the grounds.

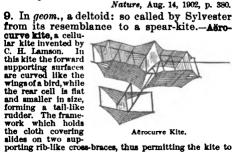
opening from the service part of the house communicates with the grounds.

kit-dressing (kit'dres'ing), n. A rustic festival in which girls carry on their heads kits decorated with willow.

kite¹, n. 7. A variety of tumbler, black, with the inner webs of the primaries red or yellow. —8. Something thrown out as a suggestion to see 'how the wind blows'—what the condition of public opinion is on a certain subject, or what conclusions may inferentially be drawn.

A few suggestions have been thrown out by various students which must be regarded more as trial hypotheses than as definite conclusions, indeed they should be looked upon rather as "kites."

Nature, Aug. 14, 1902, p. 380.



be folded when not in use.—Auxiliary kite, a kite attached by a clamp or safety-catch and a short line to the main kite-line of the highest or main kite, for the purpose of supporting the line and relieving the main kite of unnecessary strain.—Box kite, a form of cellular kite in which the front and rear cells are rectangular parallelepipeds. The different types of this kite in use are: (1) The Haryrave box kite, the framework of which consists of a backbone of wood or other rigid material, with diagonal struts or braces which may be collapsed when desired for folding or packing. (2) The Blue Hill box kite, designed by H. H. Clayton, the essential principle of construction being corner-posts extending from end to end of the kite, with the girder form of bracing. This form of construction is now almost universally used in kites designed for scientific purposes. (3) The Weather Bureau kite, designed by C. F. Marvin. It embodies the essential features of the Blue Hill box kite, with the added novelty of a collapsible frame and a supplementary surface in the front cell.—Boys' or uniplane kite, a single-plane kite, usually formed by two sticks crossing each other at an angle and tied so as to form a support for a surface of cloth or paper. In some forms a third stick is used. The surface of this form of kite is fiat, and a tail is required in order to maintain equilibrium in the air. The best-known forms are the bow kite, the diamond kite, the hexagonal kite, and the star kite.—Brahminy kite, See brahminy.—Cellular or multiplane kite, a kite the first forms of which were invented by Lawrence Hargrave about 1892. He made a variety of forms, the essential principle of construction being an open cell of circular, triangular, rectangular, or other shape, joined by a rigid rod or backbone to another cell. The flying-line is attached near the inner edge of one cell, which thus becomes the front cell. The wind blowing through the cells exerts a lifting effect on the upper and lower surfaces, while the side surfaces give gr

The cellular or multiplane kites are also far steadier than single-plane kites, and we believe they are better adapted than the latter to maintain their equilibrium under great variations of wind force.

C. F. Marvin, Kite Exper. at the Weather Bureau, p. 27.

Chinese kite, a kite (made in China) resembling a bird, a man, a dragon, or other object, formed of light paper or cloth atretched on a framework of bamboo or wood. They are extensively flown in China, Japan, and the Malay

The most curious style of Chinese kite is the dragon kite. It consists of a series of small elliptic, very light disks formed of a bamboo frame covered with India paper. These disks are connected by two cords which keep them equidistant.

O. Chanute, Progress in Flying Machines, p. 194.



These disks are connected by two cords which keep them equidistant.

O. Chanute, Progress in Flying Machines, p. 194.

Collapsible kite, a kite that can be folded up for convenience in transportation.—Hargrave kite. See cellular kite. Malay kite, a form of kite used in the Malay Peninsula.

The framework consists of two sticks crossing each other at right angles, one of which is made so elastic that it bends in the wind and forms a bow; or else the stick is tied with a cord so as to retain the form of a bow. This bow, when properly placed, balances in the wind, so that the kite flies without a tail. The best-known type of this kite in the United States is the Eddy kite, in which the bowed cross-stick is placed at a point distant 18 per cent, of the length of the vertical stick from the top of the kite. This was the first kite to be used for scientific purposes in America, except the boys' kite used by Franklin and his followera.—Parlah kite, Milvus (or Milvus) govinda, a bird of prey common in southern India, where it plays to some extent the part of a scavenger: not to be confused with the brahminy kite, Haliastur indus, which is a very distinct bird.—Bpear-kite, a kite built upon a frame consisting of one vertical and one horizontal stick: named from its resemblance to a spear-head.—Square-tailed kite, Milvus (or Lophotctinia) issurus, an Australian species.—Tetrahedral kite, a kite the skeleton of rame-work of which forms a tetrahedron, or a kite built up of individual parta, the skeleton of each part forming a tetrahedron. This kite is an invention of Alexander Graham Bell. In its developed forms it involves the principle of the cellular kite of superposed planes and following surfaces.

Tetrahedral kites combine in a marked degree the qualities of the cellular kite of superposed planes.

Tetrahedral

Tetrahedral kites combine in a marked degree the qualities of strength, lightness, and steady flight; but further experiments are required before deciding that this form is the best for a kite, or that winged cells without horizontal aeroplanes constitute the best arrangement of aero-surfaces.

A. G. Bell, in Nat. Geog. Mag., June, 1903, p. 229.

War or Observation kite, a kite used to elevate men for the purpose of reconnaissance or observation. Several forms of kite have been used for this purpose by Baden-Powell, Wise, and Cody.

For some time past attempts have been made to devise kites of sufficient dimensions and lifting power to carry a person into the air, either for meteorological observations, or simply to reconnoiter the surrounding country, the lat-

ter object naturally constituting for the most part an acquisition to a military equipment. Major Baden Powell of the British army has devised a kite which will lift a man into the air, but its scope, as frequent experiments have shown, is somewhat limited. Mr. Samuel Franklin Cody, however, has devised an observation kite which has been submitted to several exacting tests in England, and has proved practical and successful for general observation and meteorological experiments.

Sci. Amer. Sup., April 11, 1903, p. 22804.

Whistling kits. Haliastur mhenurus, an Australian

Whistling kite, Haliastur sphenurus, an Australian bird of prey related to the brahminy kite of India. Its general color is ashy brown above, rufous on the head, and dull yellowish with dark markings below.

kitel, v. i. 3. To fly a bird-shaped kite over a grouse moor: an English sporting-term.

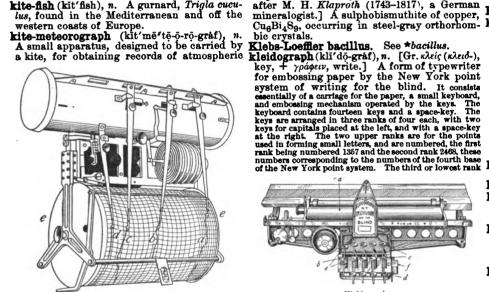
The birds, taking this for a hawk, lie close,

until the dogs are near.

kite-balloon (kīt'ba-lön'), n. A captive balloon so constructed as to act partially as a kite. Archibald's kite-balloon was an ordinary balloon fitted with a cone-shaped structure to support it. Parseval's kite-balloon, used by the Germans for scientific and also for military purposes, consists of an elongated balloon held rigid by an air-sack inflated by the wind, the sack being a part of the rear end of the balloon.

kite-boat (kīt'bōt), n. A boat propelled by the pulling force of a kite.

kite-fish (kit'fish), n. A gurnard, Trigla cuculus, found in the Mediterranean and off the



Marvin's Kite-meteorograph

a, record of the pressure; b, record of the temperature of the air;
c, record of the temperature of the wet-bulb thermometer; d,
record of the velocity of the wind; e, e, revolving drum.

conditions at considerable altitudes: made in various forms devised by Fergusson, Richard, and Marvin.

kite-photograph (kit'fō'tō-graf), n. A photograph taken by means of a camera attached to a kite.

to a kite.

kittel² (kit'el), n. [Yiddish kittel, < G. kittel, MHG. kittel, kitel, a frock, blouse, shirt-waist; origin unknown.] A Yiddish name for an ample linen or cotton robe which orthodox Jews wear on three solemn occasions, namely, at nuptial ceremonies (by the bridegroom); at the seder service, on the first two evenings of Passover (by the master of ceremonies); and on the Day of Atonement. Pious Jews are also buried dressed in a kittel.

kittereen (kit-e-rēn'), n. [Also kittareen, kitterine, kittering; origin unknown. It has been
referred, without proof, to Kettering, a local
name, and Kit Treen, a man's name.] 1t. A
kind of omnibus. [Western England.]—2. A
one-horse, two-wheel chaise or buggy, with
mitheut a moveble top. [Jamaica.]

Klementite (kiem en-tu), n. [Jamaica atom
aluminum and iron, related to the chlorites
and occurring in dark olive-green scales at
Vielsalm, Belgium.

kleptocracy, kleptophobia. See or without a movable top. [Jamaica.]

kittle¹, v. t. 2. To confuse with questions or statements.

kitty-witch (kit'i-wich), n. A small swimming-erab, Porcellana platycheles, found in the North Sea and the Mediterranean.

kiva (kē'vä), n. [Also spelled kib-va. Mori.] A sacred chamber, wholly or partly under-ground, in which many of the religious cere-monials of the Pueblo Indians are performed.

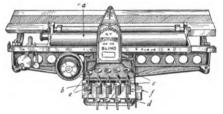
kiver¹, n. 2. A sunfish or pumpkin-seed. See pumpkin-seed, 2. Also kivy. [Local, U. S.]
kivu (kē'vö), n. [African.] A native name for one of the tsetse-flies which communicate the nagana or sleeping-sickness in Africa.
kl. An abbreviation of kiloliter.
k. L. An abbreviation of kiloliter.
k. L. An abbreviation of Knights of Labor.
k. L., K. L. A. Abbreviations of Knight of Leopold of Austria.
klafter (kläf'ter), n. [G. klafter, MHG. klāfter, sound made by the fall or regular beat of a solid on a hard surface, as a horse's hoofs on a

The German fathom, a measure containing 6 The German fathom, a measure containing 6 local feet. The square klafter contained 36 square feet and the cubic klafter 216 cubic feet. The equivalent value in English measure varies with the length of the local foot which was the basis of the klafter. The Austrian klafter was about 74% English inches, that of Hamburg about 66% inches.

klahowya (klä-hou'yä), n. [Connected with Chinook jargon klahowya, klahowyam, poor, wretched, pitiable, < Chinook tlakauyam, its poverty.] Good-by. [Washington and British Columbia.]

klanrothium (klan-rō'thi-um), n. [NL...

balloon new sack being a part of the reases ask being a



Kleidograph

a, carriage; b, keyboard; c, small-letter keys; d, compound keys; e, capital-letter keys; f, space-key.

consists of compound keys for making two impressions at one stroke, called first, second, third, and fourth compound key. The blind operator uses the left hand in handling the keys and moving the carriage, the right hand being free to read any form of tangible print or writing by touch. The characters are formed by combinations of the eight keys, each stroke or pressure on a key indenting the paper with one dot: a large percentage of all the letters are formed by touching two keys in succession and all can be formed by four motions. The keys of the lower rank make two indentations for one stroke at a great gain in the speed of the work. The machine lautomatically spaces the letters and the space key is used to separate the words and sentences. See *typewriter, 1, and *point1, 31.

and *point, 5i.

Kleinian (kli'ni-an), a. Of or pertaining to Felix Klein (1849-), the German geometer.—

Kleinian function, group. See *function, *group!. Klein solution. See heavy solution, under solution.

klementite (klem'en-tīt), n. [Named after Dr. C. Klement of Brussels.] A silicate of aluminium and iron, related to the chlorites and occurring in dark olive-green scales at Vielsalm, Belgium.

kleptic, kleptocracy, kleptophobia. See half of the beam and frame to strengthen it. knee-protector (nē'prō-tek'tor), n. A pad used to protect the knee in roller-polo, football, and similar games.

K. L. H. An abbreviation of Knight of the Legion of Honor.

K-light (kā'līt), n. In spectroscopy, the light of the K-line of the spectrum, due to the incandescence of calcium vapor. This line, which lies in the extreme violet of the spectrum, is of high actinic power. Its presence in the light from the sun's atmosphere is utilized in the photography of the solur prominences and in similar work.

| Ree-stake (nē'stāk), v. t.; pret. and pp. knee-staked, ppr. knee-staking. In leather-manuf. to stake or soften by aid of the knee. Flemming, Practical Tauning, p. 51.

| Knee-wiol (nē'vī'ol), n. Same as riola da gamba (a) (which see, under viola').

klinker, n. See clinker.

Also estufa.

A pueblo of the size of Awatobi, with so many evidences of long occupancy, would no doubt have several cere
klinocephalic, klinocephalism, klinocephalism, klinocephalic, etc.

klinostat, n. See clinostat.

monial chambers or kivas, but as yet no one has definitely kliphok (klip'hok), n. [D. klip, cliff, + hok, indicated their positions.

Rep. Bur. Amer. Ethnol., 1895-96, p. 611.

native stone but.

solid on a hard surface, as a horse's hoofs on a pavement. Also repeated, klop-klop.

pavement. Also repeated, klop-klop.
klumene (klö'mēn), n. [Appar. Gr. κλίμενος, famous: see Clymenia, *clymene.] In chem., the name first given to acetylene by its discoverer, E. Davy, who obtained it as a product of the action of water on crude potassium cartillion. bide formed in the preparation of metallic potassium.

knacker², n. 4. A man who dismantles and

knacker², n. 4. A man who distances and sells the materials of old houses, ships, etc. knackery (nak'e-ri), n.; pl. knackeries (-riz). [knacker² + -y³.] A yard for slaughtering worn-out horses; a knacker's yard. knacky (nak'i), a. [knack + -y¹.] Adroit; clever; adaptable; having a knack.

Knapsack sprayer. See *sprayer.

knee, n. 3. (e) In mech., the middle joint or elbow in a toggle-joint. (f) In anat., a knee-shaped part. See

5. In graphics, a break or abrupt change in a plotted curve.

On the rising curve there is seen to be a more or less well defined "knee" where the relation of stress to strain undergoes a marked change.

Physical Rev., Aug., 1904, p. 114.

6. A natural prominence; a rock, hill, or part of a hill.—Capped knee. See *kcapped.— Knee of the head, in *ship-building, the large flat timber which is fayed edgewise upon the fore part of the stem.— Sprung knee, a forward bowing of the knee of the horse, mue, or ass, caused by the shortening of the flexor tendons behind as a result of inflammation.

knee, v. i.—To knee out, to break out at a right angle and return to the original direction.

knee-ball (nē'bâl), n. Same as *molula.

knee-board (ne bord), n. A drag or tension-board on a cotton-yarn winding-machine. B. Marsden, Cotton Weaving, p. 257.

knee-boot (ne bot), n. 1. A compressed leather shield for covering the side of a horse's knee. The wrapper is of soft leather or felt.

—2. A boot which comes to the knee.

knee-hole (nē'hōl), n. The space under a desk occupied by the knees of one seated at the desk. [Local, Eng.]

knee-ill (ne'il), n. Same as nave!-ill. joint-ill.

kneeing (ne'ing), n. An angular bending or knee-shaped projection. Buck, Med. Handbook, III. 624.

knee-knapt (nē'napt), a. Same as knock-kneed. [Prov. Eng.] knoelet (nē'let), n. [knce + -let.] A knee-piece in medieval armor, sometimes carrying

knee-lyre (nē'līr), n. Same as lira da gamba (which see, under lira².)

knee-movement (ne'mov'ment), n. A device for operating a toggle-joint.
kneepan, n. 2. In entom., the femoral concavity into which the tibia is inserted. Kirby and Spence.

knee-pipe (nē'pīp), n. An elbow; a bent pipe.

knee-punch (nē'punch), n. A punch which is bent to allow its being used through a narrow opening.

Kneiffia (kni'fi-a), n. [NL. (Spach, 1835), named in honor of F. G. Kneiff (-1832), an apothecary and botanist of Strasburg.] A genus of plants of the family Onagraces. They

knelp (knip), v. i. [G. kneipen, carouse, tipple, booze, fuddle, < kneipe, a pot-house, beershop: see *kneipe.] In German universities, to drink and be convivial at a 'kneipe,' according to the German 'beer-code.'

In whatever other respects the German student may be irregular, he always kneips according to rule.

J. M. Hart, German Universities, p. 189.

kneipe (kni'pe), n.; pl. kneipen (-pen). [G. knob-root (nob'röt), n. The horse-balm, College (and waken those whose work requires them to be up early.

knob-root (nob'röt), n. The horse-balm, College (and knob-root). The horse-balm, College (and waken those whose work requires them to be up early.

knocking, n. 5. The practice of persistent attack with ulterior motives. See *knock, v. i., 4. [Political slang, New York.]

knock-off, n. 2. In mech., a releasing some part of a tappet or cam for releasing some part of a mechanism. It is used in some forms of engine valve-gears to operate the admission-valves.

knock-out, a.—Knock-out, a.—K

rules, which are somewhat strictly observed.

knel, v. and n. A simplified spelling of knell.

knez (knez), n. [Serv. Slov. knez, Bohem. knez (kniez), Russ. knyazŭ (kniaz) (Albanian knez),

MGr. κνέζης, etc., a prince; connected with

OHG. chuning, etc., AS. cyning, E. king.]

Prince: a Slavic title of nobility equivalent to prince or duke, and sometimes implying sovereignty

knickers (nik'erz), n. pl. A contraction of knickerbockers. Also used adjectively, in the form knicker: as, a knicker suit.

Knife, n.—Barlow knife, a pocket knife having the name 'Barlow' on the handle. These knives were extensively used for many years, since they had excellent steel blades and were inexpensive. Also called Billy Barlow knife.—Graefe knife, a slender knife used in the operation of linear extraction of cataract.—Recording knife, the sapphire cutting-point of the phonograph. Scripture, Exper. Phonetics, p. 35.

knife-bar, n. 2. A metal bar with an acute edge employed on different machines with different functions.

knife-box, n. 2. Same as $\star griffe^1$, 3.

knife-dox, n. 2. Same as *griffe1, 3.

knife-bracelet (nif'brās'let), n. A narrow bracelet of iron, with a sharp edge which is usually covered with a strip of hide. The edge may be uncovered and the bracelet used to inflict wounds by a blow. Such knife-bracelets are worn by the Irenga and other tribes of the upper Nile. In other parts of Africa bracelets or arm-rings with attached knives or spikes are worn.

To guard themselves from capture, they [Reshiats or Darsonichs] wear a very sharp knife bracelet, and when fighting they remove the sheath.

Geog. Jour. (R. G. S.), XI. 383.

knife-fish (nif'fish), n. A cyprinoid fish, Pelecus cultratus, found in eastern Europe.

knife-man (nif'man), n. A special workman employed in the more delicate and important part of archæological excavations in which it is necessary to substitute a knife for a spade.

The patience of the few picked "knife-men" who lay or crouched in the trenches cutting through the compost of bones and pottery inch by inch, was sometimes rewarded with unexpected treasures.

R. C. Bosanquet, in An. Brit. School at Athens, VIII. 294.

knife-roller (nif'rō'ler), n. A roller with blades or knives, arranged spirally or otherwise, as on the knife-roller cotton-gin. Taggart, Cotton Spinning, I. 28.

knife-switch (nif'swich), n. In elect. a form of switch in which the circuit is closed by the insertion of a metallic strip pivoted, like a knife-blade, between metallic clips or springs.

knife-worm (nīf'werm), n. Any cutworm. Enight of the brush, a painter.—Knight of the pestle, an apothecary.—Knight of the quill, a writer; an author.—Knights of Pythias, a secret fraternal order founded at Washington in 1864. It has an insurance or beneficial branch.—Two Knights' defense. See opening, 9.

knight-cross (nit'krôs), n. The scarlet lychnis or cross of Jerusalem, Lychnis Chalcedonica.

knight-fish (nit'fish), n. A common nar applied to Monocentris gloræ-maris, a ber coid fish found in Australia. Also call pine-cone fish. A common name Also called

knismogenic (nis-mō-jen'ik), a. [Gr. κνισμός, tickling, + -γενης, -producing.] Productive or provocative of tickling: as, knismogenic sensations. G. S. Hall, Adolescence, II. 95. knitting-bur (nit'ing-ber), n. In a knitting-

machine, a wheel with blades for carrying the while the web is forming.

knob, n. (i) A small flock, less than 30, of ducks: an English sporting-term.

knobble (nob'l), n. [Dim. of knob.] A small knob or lump.

8.-44

knob-fly (nob'fli), n. A natural fly used in angling; also, an artificial fly. Also called knop-fly.

knob-grass (nob'gras), n. Same as *knob-

knobkerrie, knobkerry (nob'ker-i), n. [Cape D. knopkieri; as knob + kerrie, kirri.] See

II. vi.

knock, v. I. trans. 3. To speak ill of one.

[College slang.]—To be knocked off (naut.), to be turned to leeward: said of a vessel when, by reason of the sea hitting her on the weather bow, her head is sent to leeward of the point toward which she had been looking.

—To knock down. (c) To take to pieces (as a machine or a barrel), for storage or for purposes of transportation; as, for barrels knocked down—so much. (d) See the extract.

A system known as "knocking down one's cheque" prevails all over the unsettled parts of Australia. That is to a device for allowing a valve in a spring-testing machine to open when the ram encounters a resistance.

A system known as "knocking down one's cheque" prevails all over the unsettled parts of Australia. That is to say, a man with a cheque, or a sum of money in his possession, hands it over to the publican, and calls for drinks for himself and his friends, until the publican tells him he has drunk out his cheque.

H. Finch-Hatton, Advance Australia, p. 222, quoted in [E. E. Morris, Austral English.

To knock up. (e) In cricket, to score runs by hitting. [Colloq.]

II. intrans. 4. To keep up a system of annoying attacks; to keep striking or hitting until the other side capitulates or buys the 'knocker' off. [Political slang, New York.]

There are several ways of getting into Tammany Hall. One is to be born there; and another is to work your way up in; a third is to lower yourself down in. The fourth, and a very successful way, is what the Tammany men call "knockin." This is to fight Tammany Hall until the organization opens and receives you, paying in return almost anything within reason.

N. Y. Com. Advertiser, May 11, 1901.

knockabout (nok'a-bout), a. and n. I. a. 1.
Noting something which knocks (other things)
about; rough; buffeting; boisterous: as, a
knockabout game of foot-ball.—2. Accustomed
to knock about or to be knocked about: as, to knock about or to be knocked about: as, a knockabout globe-trotter; suitable to be knocked about in: as, a knockabout coat.—3. Noisy; full of horse-play: as, a knockabout entertainment; knockabout business. [Theat. slang.] -4. In Australia, applied to a jack of all trades on a station.

II. n. 1. A traveler; one who has knocked about.—2. A performer in a knockabout play or sketch; the sketch itself. [Theat. slang.] —3. In Australia, a hand on a station who does a little of everything.—4. A small sailing-yacht of light construction and simple sail the latter consisting of a mainsail and



a jib bent on a stay that is set up on the stem of the boat. These boats, as a rule, are flatbottomed, with a fin-keel, and can be handled very quickly, going from one tack to another without apparently losing speed. Some knockabouts are provided with a center-board instead of a fin, for use in shallow waters.—

Knot removed or united.

knot maul (not'mål), n. A maul which has a head made from a knot or other tough piece of wood.

knot-pound (not'pound), n. A unit in terms of which the weight of copper and, indirectly, the electrical conductivity of a submarine or underground cable are expressed; one pound 5. A small launch.

differ from Enothers in their diurnal flowers, unequal stamens, and usually club-shaped and often winged capsules. There are about 12 species, belonging chiefly to the eastern United States, commonly known as sundrops.

knob-fly (nob'fli), n. A natural fly used in pendant to a wig.— Newgate knocker, a lock of hair worn by thleves and others in such a manner as to be supposed to resemble the knocker on the prisoners door at Newgate.

knocker-up (nok'er-up), n. A person employed, especially in mill towns, to go about and waken those whose work requires them

a resistance knop, n. 6. A loop or tuft in two- (or more) ply yarn produced in doubling for ornamental purposes

knop-fly (nop'fli), n. Same as *knob-fly.
knopite (knop'it), n. [G. knopit (1894), named
after Professor A. Knop of Karlsruhe.] A
titanate of calcium and cerium occurring in lead-gray isometric crystals. It is intermediate in composition between perovskite and dysanalyte.

Knorria (nor'i-ä), n. [NL. (Sternberg, 1820), named after Georg Wolfgang Knorr, a German paleontologist.] A supposed genus of Paleozoic fossil plants consisting of trunks whose surfaces present inclined overlapping whose surfaces present inclined overlapping ridges. They are now known to be, for the most part at least, decorticated trunks of Lepidodendron in which the whole bark has been stripped off, the course of the leaf-trace bundles through the middle cortex being represented by these ridges, and presenting an appearance wholly different from that of the real surface of the trunk.

Into 1, n. 3. (u) In musical instruments of the lute, viol, and similar classes, same as rose1, 15.—Double overhand knot, a common landsman's knot made by anilors because it will slip when a strain is put upon it. See the illustration.— Hangman's knot, a knot formed



Double Overhand Knot.

Double Overhand knot.

by laying back the bight of a rope near the end, then winding seven turns around it from left to right, and passing the end back under all the turns. This makes a slip-noose and a long cylindrical knot through which the hauling part of the rope travels freely.—Loop-knot, any knot which forms a loop, such as a bowline.—Oldgranny knot. Same as granny's-knot.—Stopper knot. See stopper-knot.—Vital knot, the 'nœud vital' of Flourens; a small area of the ohlongata, destruction of which means instant death, and which has therefore been regarded as preeminently the vital center.

The vital knot of Flourens is the vital center.

The vital knot of Flourens is the vital center and must also be the center of pleasure and pain, which are merely alterations in the functions of organic life.

[of Emotions, p. 28.

[of Emotions, p. 28.]

knot-grass, n. 3. (e) The joint-grass, Paspalum distichum. See Agrass-moth. See

knot-hole (not'hōl), n. A hole in a board or plank formed by the falling out of the piece of a knot, node, or knur left when the plank was

knot-horn (not'hôrn), n. A collectors' name for any phycitid moth: so called because the males of this family frequently have a swollen basal antennal joint. Cambridge Nat. Hist., VI. 424.

knotless (not'les), a. [knot + -less.] Without a knot, in any sense of the word; with the

knots removed or untied.

knot-maul (not'mâl), n. A maul which has a head made from a knot or other tough piece of

per nautical mile or knot.

knot-root (not'röt), n. Same as *knob-root. knotter, n. 2. In textile-manuf., a hand-device for mechanically tying together two ends of

yarn or thread.

— 3. The me-

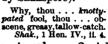
Barber Knotter.

a, strap for fastening on the hand; b, thumb-piece; c, knotter and cutter; d, thread-guide.

beetle (the and making cloaked knotty- knurled, a. horn), Desmo-cerus palliatus, dark-blue in

color, with the basal part of the elytra orange. Its larvæ bore into the stems of elder. Comstock, Manual of Insects, p. 570.

knotty-pated (not'i-pā'ted), a. A doubtpā'ted), a. A doubtful term, either genuine and meaning 'having a knotty or lumpy pate,' or, simply, 'having a hard (wooden) pate,' or a mistake for not-pated 'bish is also used (which is also used by Shakspere).





Desmocerus palliatus.) Enlarged one third.

knotwork, n. 2. A kind of fancy-work made

of thread, yarn, etc., by tying knots. It is usually finished with a crocheted edge.

knot-writing (not'ri'ting), n. A mnemonic device consisting of strings in which a number of knots are made, the number and order instance, by the Australians, the California Indians, and also by the Peruvians. See *quipu*. *Ratzel* (trans.), Hist. of Mankind, I. 344.

knowability (no-a-bil'i-ti), n. The quality or kobza (kob'zä), n. [Russ., Little Russ., Pol. condition of being (easily) recognized, known, kobza, Turk. kopuz, a pandora.] A rude lute or comprehended.

knowledge, n.—Dynamic knowledge, knowledge that effects changes, especially in conduct and social relations. Ward, Dynamic Sociol, H. 509.

Knox beds, dolomite. See *bed¹, *dolomite.

Knoxville beds. See *bed¹.

knoxvillite (noks'vil-it), n. [Knoxville (see def.) + -ite².] A hydrated sulphate of ferric iron, chromium, and aluminium occurring in greenish-yellow rhombic plates: found at the Redington mercury-mine, Knoxville, Califor-

K. N. S. An abbreviation of Knight of the North Star (Sweden).

When a small knuckle of intestine has slipped into a narrowing there is no strangulation at once and fecal matter enters the knuckle through its upper entrance.

Med. Record, Feb. 28, 1903, p. 350.

9. In mech., the swinging leaf or hook used for the coupling device in certain automatic car-couplings, particularly in the Janney or M. C. B. (master car-builders') type. A hole is usually provided in the knuckle so that the common link-coupling may be used with it.

knuckle, v. i.—To knuckle to. (a) To acknowledge one's self convinced, in the wrong, or beaten. (b) To apply one's self earnestly.

The game played with dibs or knuckle-bones.

He became one of the leading players at knuckle-bones, which all fhampanis and many saises play while they are waiting outside . . . of nights.

R. Kipling, Indian Tales, p. 34.

knuckle-kneed (nuk'l-nēd), a. Having very prominent knees.

chanism in a thread which has a large bottom.

binder which ties the knots in the bindingin the bindingthe ioint upward and forward, making the foot

T. S. Dept. Agr., cord. the joint upward and forward, making the foot knotty-horn (not'i-horn), n. Rep. on Diseases of the Horse, 1903, p. 346.

An American knurl, n. 3. In photog., a milled-edge roller cerambycid used for dotting and softening outrunning lines

used for dotting and softening outrunning lines and making dark spaces lighter.

knurled, a. 3. Milled: said of the serrated edge of a coin. Also called knarled. See mill., 4.

ko² (kō), n. [Chinese ko, prop. the culm of the bamboo, hence a stick, piece, thing, as a conventional term of enumeration.] A Chinese unit of customary enumeration, in connection with contain eleges of things: as vi ke iin a with certain classes of things: as, yi ko jin, a man or 'one man' (usually rendered in pidgin-

English 'one piecey man').

koae (kō-ă'ā), n. [Hawaiian.] The white-tailed tropic-bird, Phaëthon leucurus, which is found in the Sandwich Islands.

in the Sandwich Islands.

koali (kō-ĕ'lē), n. [Hawaiian koali, < koali, koai, creep around.] In Hawaiia, a name for several vines belonging to the genus Ipomæa.— Koali-ai (edible convolvulus), Ipomæa tuberculata, a stout twiner with a tuberous root which was formerly used by the natives as food in times of scarcity. The stems are strong and durable and are used by the Hawaiians as cordage. The plant is distributed over tropical Asia and parts of South America— Koali-awahia (bitter convolvulus), Ipomæa congesta, a stout twiner, the root of which is a powerful cathartic, much used in native medicine. It occurs in the Hawaiian, Tongan, and Fijian islands, the Ladrones, Norfolk Island, and on the east coast of Australia.

kobbera, n. See *cobbra.

kobbera, n. See *cobbra. Kobell's test. See *test1.

kobong (kō'bong), n. [Aboriginal Australian.] In West Australia, the totem animal of a clan. of knots serving the end of recalling certain kobu (kō'bō), n. [Jap.] An important broadobjects or events: used by many primitive fronded, edible seaweed, Laminaria saccharis
tribes unfamiliar with the art of writing—for
(which see, under Laminaria), found on the
instance, by the Australians, the California
coasts of Japan, and especially of Yezo, the
Indians, and also by the Peruvians. See quipu. most northerly of the four large islands, where it is known as *kombu (which see).

One of the few advantages that India has over England is a great knowability. . . . At the end of twenty years [a man] . . . knows, or knows something about, every knowledge [c. knowledge] knowledge knowled the granite of the Kochelwiese, Silesia.

Koch's comma bacillus, Koch-Weeks bacillus. See *bacillus.

kodak (kō'dak), n. [An arbitrary word invented as a trade-mark.] A hand-camera, of a special make, designed for taking instantaneous photographs; hence, any similar camera. kodak (kō'dak), v. [kodak, n.] I. trans. To photograph with a kodak.

II. intrans. To take photographs with a kodak; use a kodak.

kodaker (kō'dak-ėr), n. One who uses a

North Star (Sweden).

knuckle, n. 8. A sharply bent loop, as of intestine, especially when imprisoned, as in a hernia.

When a small knuckle of intestine has slipped into a Bavarian botanist.] A genus of dicotyledonous shrubs or small trees, the type and only one of the family Kaberliniacea. The only genus of the family Kæberliniaceæ. The only species, K. spinosa, is a native of western Texas and northern Mexico. It is characterized by the stiff green branches ending in firm thorns, scale-like caducous leaves, and small white flowers in lateral racemes near the ends of the branchlets. See *junco².

Kæberliniaceæ (keb-er-lin-i-ā'sē-ē), n. pl. [NL. (Engler, 1895), < Kæberlinia + -aceæ.] A family of American shrubs or small trees of the order Hypericales, the junco family, consisting of the single monotypic genus Kæberlinia. linia. See *Kæberlinia.

knuckle-bone (nuk'l-bōn), n. 1. A bone in a Kellia (kel'i-a), n. [NL. (Moench, 1794), knuckle-joint, especially of a sheep: used in the game of knuckle-bones. See dib³.—2. pl. Koelle (1763-97), a German physician and Koelle (1763-97), a German physician and botanist.] A genus of dicotyledonous plants belonging to the family Menthaceæ. See Pyc-

> koenenite (kėn'e-nīt), n. [Named after Dr. Sechuana khokong or kgokon.] The brindled A. von Koenen.] A hydrated oxychlorid of gnu, Catoblepas taurina.
>
> aluminium and magnesium occurring in red kokoon (kō-kön'), n. Same as cocoon² and cleavable masses.

knuckle-post (nuk'l-pōst), n. One of the two cross-arms in a knuckle-joint; specifically, the vertical post carrying the stub-axle in the steering-knuckle of an automobile.

knuckle-thread (nuk'l-thred), n. A screwthread which has a large round at the top and thread which has a large round at the top and the state of the two koettigite (kèt'ig-īt), n. [Named (1850) after Otto Koettig, who first analyzed it.] A hydrous arseniate of zinc, cobalt, and nickel, related to vivianite in form and composition.

Koheleth (kō'hā-let), n. [Heb. qōhēleth, a word of uncertain meaning, but appar. con-

word of uncertain meaning, but appar con-nected with *qahal*, congregate, and hence translated in the Septuagint version of *Eccle*siastes 'member of an assembly,' but understood by Jerome and later authors as 'Preacher.'] 1. The book of Ecclesiastes, traditionally ascribed to King Solomon.—2. One of the six traditional surnames of King Solomon: said to have been applied to him because his words were spoken in public gatherings. The other five were Jedidiah, Agur, Jakah, Lemuel, and Itiel.

Kohlrausch's law. See *law¹.

kohua (kō'hö-ä), n. [Maori.] 1. A native Maori oven. This consisted of a hole in the ground, containing heated stones, in which the food was placed in baskets. Water was then poured on the stones, and the whole covered up to keep in the steam till the food was properly cooked. See *wmu.

2. A three-legged iron pot or kettle; a 'go-shore' or 'go-ashore.' [New Zealand.]

koi (kō'ē), n. [Jap.] The common carp, Cy-prinus carpio, found in the rivers of Japan.

koilonychia (koi-lō-nik'i-ā), n. [Gr. κοίλος, hollow, + ὀνυξ (ὀνυχ-), finger-nail.] A spoon-shaped finger-nail with surface concave instead of convex.

koilorachie (koi-lō-rak'ik), a. [Gr. κοίλος, hollow, + βάχις, the spine.] Having a spinal column with a lumbar curve concave forward, or with a lumbovertebral index of more than 102. Turner.

koji (kō'jē), n. [Jap. kōji.] A ferment used by the Japanese in making sake or rice-wine. It is produced by leaving steamed rice exposed to the sir at ordinary temperature until a fungus growth makes its appearance. Used as an infusion, it acts upon starch, converting it into maltose and dextrine, and ultimately into glucose susceptible of alcoholic fermentation.

kokam (kō'kām), n. [Hindi.] Same as *corcorodi.

covali.

kokio (kō-kē'ō), n. [Hawaiian, prop. a shrub or tree.] A name in Hawaii of several speto the genus Hibiscus.—Kokto-keokeo (white kokio), Hibiscus Arnottianus, with white flowers: same as whauhele.

kobza, Turk. kopuz, a pandora.] A rude lute koklass (kōk'las), n. A native name of pheasused in Little Russia.

K. O. C. An abbreviation of kathodic opening contraction.

kochelite (kō-ke-lit'), n. [G. kochelit (1868), the males. These pheasants are found through the Himalayas from Afghanistan to Man-



Common Koklass.

koko¹ (kō'kō), n. [W. African.] Same as

koko² (kō'kō), n. [Hawaiian koko, a particular use of koko, blood (sap). These plants yield an abundance of milky sap or latex.] A name in Hawaii of several shrubs and small trees belonging to the genus Euphorbia, and particularly of E. lorifolia. This is a tree 12 feet high, found at high elevations, and is much used as fire-wood.

kokong (kō-kông'), n. [Also kokoon, cocoon: (
Sechuana khokong or kgokoñ.] The brindled
gnu, Catoblepas taurina.

kokopu (kō'kō-pō), n. [Maori.] A fish, Galazias fasciatus, of the family Galaxidx, found
in Australian waters. See *cockabully. Also
sometimes applied to other fishes of the same
narite.

waiian Islands, interrupting the northeast trade-winds and usually bringing rain.

konarite, n. An incorrect spelling of *conarite.

kokowai (kō'kō-wī), n. [Maori.] Red ocher. New Zealand.]

koku (kō'kö), n. [Jap.] A liquid and dry measure used in Japan. As a liquid measure it is equivalent to 47.6 United States gallons; as a dry measure, to 5.11 United States bushels.

kola, kolanine, kola-nut, kola-red. See *cola², *colanine, cola-nut, *cola-red. kolea (ko-lā'ā), n. [Hawaiian.] The Pacific golden plover, Charadrius dominicus fulcus, which makes a wonderful trip from Alaska to the Sandwich Islands.

kolkol (kol'kol), n. [Southern Maidu (California).] Shell money of the Californian Indians, made of Olivella biplicata. The word was in use in central California.

kolloxyline, n. 2. A substance closely related to celloidin, and used like it in histological technic: said to be more readily

[Heb., 'all vows.'] kol nidre (köl nid'rā). The opening words of the most solemn prayer of the Jewish ritual for the eve of the atonement fast. It is chanted three times by three pious members, including the hazzan, or cantor. The reformed communities of America and Europe have discarded it, owing to the fact that it seems to release the supplicants from all vows from one Day of Atonement until the next, according to one of its declarations.

kolokolo (kō-lō-kō'lō), n. [Hawaiian, a creeper, < kolo, creep.] A name applied by the natives in Hawaii to a number of plants with a creeping or prostrate habit.—Kolokolo kuahtwi ('mountain creeper,') Lysimachia Hillebrandi, a species of loosestrife with dark-purple sweet-scented flowers, found on the highlands of Kaual.

kolpohysterectomy, n. See *colpohysterec-

komatik (ko-mä'tik), n. [Labrador.] A sledge used by the people of Labrador. kombe (kom'bā), n. [Native African name.]

A rambling or climbing shrub of the dogbane family, Strophan-

family, Strophan-thus Kombe, native of East Africa. It furnishes a part of the officinal Strophanthus seeds used in medicine.

Strophanthus. See

kombic (kom'bik), a. Noting an acid, a little-known com pound of uncertain properties and composition, found in Strophanthus seeds.

kombo (kom'bō), n. [African.] A cere-monial form of greeting, employed by chiefs in many parts of Africa.

parts of Africa.

kombu (kom'bö),

n. [Jap.; Chin. | k'un-pu.] A Japanese coarse, edible saeaweed, also called *kobu (which see),

great quantities of which are gathered on the coasts of Vezzo and elsewhere and prepared

coasts of Yezo and elsewhere and prepared for use as pickles, seasoners, relishes, vege-tables, sweetmeats, and, in powdered form, as tea. See the extract.

Kombu is one of the staple foods of the country [Japan], entering into the dietary of almost every family and being eaten alone as a vegetable or as a seasoning for meats, fish, stews, etc.

Nat. Geog. Mag., May, 1905, p. 218.

Kome beds. See *bed1.
komenic, a. Incorrect form for *comenic.

komenic, a. Incorrect form for *comenic.
kommers (ko-mars'), n. [G. kommers, also
kommersch, a particular pronunciation, among
students, of kommerz, commerz, commerce,
trade, intercourse, society, drinking-club, etc.; (L. commercium, commerce: see commerce.] A social gathering of German university students at some place of entertainment.

Come in Come in. You shall see some sport. A Fox Freshman commercs is on foot and a Regular Beercandal.

Longfellow, Hyperion, iv.

kommos, n. See commos. kona (kō'nä), n. [Hawaiian kona.] The southwest wind that sometimes occurs in the Ha-

konarite, n. An incorrect spenning of narite.

Kongo colors. Same as direct cotton *colors. Sclerobelemnon, and Bathyptonie prus + -ian.] In qeol., a term adopted by French geologists for the lowest division of the Devonian formation when expressed as a pelagic fauna in limestone facies. It is represented by the Konieprus limestone of the Bohemian basin, and is essentially equivalent to the Hercynian stage and limestone of the German geologists.

koninckinid (kō-ning'kin-id), n. One of the Koninckinidæ, or a brachiopod related thereto.

koninckinoid (kō-ning'ki-noid), a. Pertaining to or having the characters of the Koninckinida.

koninckinoid (kō-ning'ki-noid), a. Pertaining to or having the characters of the Koninckinidal.

koninckinoid (kō-ning'ki-noid), a. Pertaining and cop¹.] A small hill. [South Africa.]

konini (kō'nē-nē), s. [Maori.] In New Zealand, the fruit of the kotukutuku or native fuchsia, Fuchsia excorticata. It is an ovoid, fleshy, four-celled, pendulous black or purple berry, which is edible and pleasant and forms the principal food of the wood-pigeon.

koniology (kō-ni-ol'ō-ji), n. [Gr. κόνις, dust, + -λογια, < λέγειν, speak.] The science which treats of dust and its components, especially of the dust floating in the atmosphere.

koniscope, n. See *coniscope. konje (kon'je), n. [Native African name.] A valuable fiber-plant, Cordyline Guineensis, yielding African bowstring hemp. See San-

senieria

konnarite, n. See *connarite.

konzi (kon'zi), n. [African.] Lichtenstein's hartbeest, Bubalis lichtensteini, a large African antelope which inhabits the Zambesi re-gion. It has rather small ringed horns that gion. It has rather small ringed norms bend upward and outward, then inward, and, finally, backward.

koobery (kö'be-ri), n. [Also kooberry; from an aboriginal Australian name.] A fish, Therapon richardsonii, of the family Hæmulidæ, found in Australia.

koodoo, n. 2. One of the bushbucks, Tragelaphus sclousi, which inhabits the swampy re-gions of central and eastern Africa.—Greater koodoo, Strepsiceros kudu, rapidly being exterminated in most parts of its range.—Lesser koodoo, Strepsiceros imberbis, a species smaller than the common koodoo, lacking the fringe of hair beneath the throat, and having horns more closely twisted. It appears to be confined to Somaliland and the region about Kilimanjaro.

kookaburra (kö-ka-bur'ā), n. [Also gogobera, goburra, gobera; an aboriginal Australian name.] The native name adopted as a common name for the laughing-jackass, Dacelo gigas, a large species of kingfisher. The name is extensively used about Sydney and is given by E. P. Ramsay in his "Catalogue of Australian Birds." See cut under Dacelo. koolaman, kooliman (köl'a-man.-i-man), n.

koolaman, kooliman (köl'a-man, -i-man), n. Same as *coolamin.

koontee, koonti, n. See coontie. koosin (kö'sin), n. Same as *kosin.

kootchar (kö'chār), n. [Aboriginal Australian.] An Australian stingless bee probably belonging to the genus Melipona. Cambridge Nat. Hist., VI. 63.

*kop1 (kop), n. [D. kop = E. cop1. Compare *kopje.] A small hill. [South Africa.]

The three field batteries then came into action against a high tableland kop which formed the right of the held position, the advance remaining checked the while.

L. James, in War's Brighter Side, p. 347.

kop² (kop), n. [D. kop = E. cop^3 , cup.] In Holland, the name given to the liter when used as a dry measure.

kopang (kô' pāng), n. [Malay kopang, kupang; cf. cobang, kobang.] An old money of account at Penang, equal to a tenth of a United States dollar.

koph (köp, köf), n. [Also qoph; Heb. qöp, qöph, Phen. *qöp, whence Gr. φόππα, κόππα.] The nineteenth letter (p) of the Hebrew alphabet, corresponding to the Roman q. Its numerical value is C.

Kophobelemnon (kō-fō-bē-lem'non), n. [NL., ⟨ Gr. κωφός, dull, dumb, + βέλεμνον, dart.] A widely distributed genus of sea-pens, typical of the family Kophobelemnonidæ. Asbjörnsen, 1856.

Kophobelemnonidæ (kō-fō-bē-lem-non'i-dē), n. pl. [NL., < Kophobelemnon + -idæ.] A family of pennatulacean alcyonarians having the polyps on both sides of the elongate cylindrical rachis in a single series or in in-

distinct rows, large and without cells, and the ventral streak of the rachis without polyps. It includes the genera Kophobelemnon,

[South Africa.]

Kopjes, short, thick, volcaniclooking hills, often with a squaredoff summit or a crater-like bowl on
the top, such as Majuba has. They
are . . . hills made of rock so that
the surface is a fretwork of the
outermost boulders.
J. Ralph, An American with Lord
(Roberts, p. 4.

koprosterin (ko-pros'te-rin),

n. [As koproster(ol) + -in².]

Same as *koprosterol.

koprosterol (ko-pros'te-rol), n. [Gr. $\kappa \delta \pi \rho \rho \varsigma$, dung, + (chole)sterol.] A colorless dextrorotatory compound, $C_{25}H_{44}O$, found in human

tatory compound, C₂₅H₄₄O, found in human feces. It is a derivative of cholesterol, which it resembles in general properties, and is possibly identical with stercorin. It forms long, slender, pliable needles melting at 95-96°C. Also called koprosterin.

Kopt, n. See Copt'2.

Koptic, a. and n. See Coptic.

koradji (kō-rā'ji), n. [Also coradgee, kardji, etc.; native Australian.] A shaman or medicine-man of the Australian aborigines.

Korahite (kō'ra-īt), n. [Korah + -ite².] In Jewish hist., a descendant of Korah (1 Chron. vi. 22, etc.), the great-grandson of Levi. The Korahites ("sons of Korah") distinguished themselves in the Levitical services as singers in the temple. Certain Psalms (xlii., xliv., xlv., etc.) are superscribed as "for the sons of Korah"

korakora (kō-rā-kō'rā), n. [Also coracora,

"for the sons of Korsh."

korakora (kō-rṣ-kō'rṣ), n. [Also coracora, korocora, etc.; < Malay kōra-kōra: see *caracoa.] A Malayan boat, formerly in use, having a high curved stem and stern.

ing a high curved stem and stern.

Koranolatry (kō-ran-ol'a-tri), n. Worship of
or reverence for the Koran.

From Lully down Mohammedans have been the hardest to convert. Heresy and apostasy from koranolatry
is here treason.

G. S. Hall, Adolescence, 11. 729. to here treason.

G. S. Had, Adolescence, H. 729.

korigum, korrigum (kor'i-gum), n. [African.]

The Senegal hartbeest, Bubalis senegalensis, a species with rather short, heavy, lyrate horns, which inhabits Central Africa from Senegal to Somaliland.

korimako (kō-ri-mā'kō), n. [Maori.] A Maori name for the New Zealand bell-bird, Anthornis melanura.
 korin (kō'rin), n. [W. African.] A species of ga-

zel, Gazella rufifrons, found in Senegal, Africa. kornerupine (kor-ne-rö'pin), n. [Named (1885) after A. N. Kornerup, a Danish geologist.]
A silicate of aluminium and magnesium,
MgAl₂SiO₆, occurring in from colorless to
white fibrous

or columnar aggregates: found at Fiskernäs, Greenland. Prismatine. from Waldheim, Saxony, is á similar min-

eral.

koro² (kō'rō),

n. [Jap.kōrō.]

A Japanese incense-burner or censer, usually of bronze, iron, or pottery.

korora (kō'rōrä), n. [Ma-ori.] A Maori name, to some extent adopted as a common name, for the little pen-

Japanese Koro. Iron, inlaid with gold. (In the Pennsylvania Museum, Philadelphia.) In the Pennsylvania Museum, Philadelphia.) guin, Eudyptula minor, the smallest member of the group.





korrel (kor'el), n. [D., a grain, a decigram, a particle, crumb; = E. kernel.] In Holland, the name given to the decigram.

korroboree, n. and v. See corroboree

Kosin (kō'sin), n. [koso (kosso, kusso) + -in².] kozo
A sulphur-yellow tasteless compound, C₂₃H₃₀
O₇, obtained from cusso. It does not preexist in the drug, but is a decomposition-product K. P. of kosotoxin. It is physiologically inactive. Patrick; (b) of Knights of Pythias.

Also kussin, koussin, kosein, kussein, and Kr. 1. The chemical symbol for the element tæniin.

krypton.—2. [l. c.] An abbreviation of

kosmochlore, n. See *cosmochlore.

kosmochromite (kos mo kro mit), n. [Gr. κόσμος, ornament, + γρώμα, color, + -ite².] Same as *cosmochlore.

kosotoxin (kō-sō-tok'sin), n. [koso, otherwise cusso, + toxin.] A yellowish, amorphous compound, $C_{26}H_{34}O_{10}$, obtained from cusso, the pistillate flowers of the Abyssinian tree Brayera anthelmintica. It is anthelmintic.

koswite (kos'wit), n. [Kosw(insky), a locality in Perm, northern Ural, + -ite².] In petrog., a variety of pyroxenite composed of diopside-diallage, with small amounts of olivin, hornblende, magnetite, and chrome-spinel. The characteristic feature is the texture produced by the magnetite, which is about 16 per cent. of the rock and forms a matrix for the other constituents.

kotal (kō'tal), n. [Pushto kōtal.] In Afghanistan, a mountain pass; the summit of a pass.

We . . . reached the kotal in an hour.

Lord Roberts, Forty-one Years in India, II. 147.

Kotari (kō-tä'rē), n. One of the minor Dra-vidian languages of India spoken by the Kotarg.

kotschubeite (kot-shö'be-it), n. [Named after a Russian count, P. A. von Kotschubei.]
A rose-red variety of clinochlore containing several per cent. of chromium oxid.

köttigite, n. See *koettigite.

kotuku (kō'tö-kö), n. [Maori.] The New Zealand white heron, Ardea timoriensis: like other herons miscalled a crane.

kotukutuku (kō-tö-kö-tö'kö), n. [Maori.] New Zealand, a small ornamental tree, Fuchsia excorticata, which belongs to the evening-primrose family. Its trunk is covered with ragged, papery bark, and its wood, which is soft and useless, contains much tannic and gallic acids. It bears red-purple flowers about an inch long and a pleasant, edible fleshy berry called by the natives konini. The name is more commonly shortened to tookytook, a corruption of the aboriginal name. Also called native fuchsia.

kotwalee (kot-wä'lē), n. [Also kotwallee, cutwallee, < kotwol, cutwal, a police officer: see cutwal.] A police station. [Anglo-Indian.]
kou (kō'ö), n. [Hawaiian.] In the Hawaiian Islands, a name of Cordia subcordata, a tree

belonging to the borage family, from which the natives make wooden bowls, or calabashes, for holding their poi.

koueme (kö-ā'me), n. [Native name in East Africa.] A tall, climbing plant of the gourd family, Ampelosycios scandens, with stems from 50 to 100 feet long and bearing large, fleshy fruits which sometimes reach 60 pounds in weight. It is a native of eastern tropical Africa and is much cultivated by the natives there and in the Mascarene Islands for its large oily seeds, which are boiled and used for food.

kourgan, kourgane, n. Same as *kurgan.

kouse (kous), n. [Also cous, cows, and cowish, of Amerindian origin: see cowish².] A native name for Lomatium Cous and other species of the same genus, umbelliferous food-plants of the Columbia River region.

The Sioux Indians beat dried wild cherries with buffalo meat to form their winter stock of penmican. In Oregon and Washington an immense amount of food was gathered from the camass root, and also from the kouse root.

Yearbook U. S. Dept. Agr., 1899, p. 308.

koussein, koussin, n. Same as *kosin.

kowdie (kou'di), n. An imperfect rendering of kauri, a New Zealand tree. See kauri-pine. kowhai (kô'hwi), n. [Maori.] In New Zealand, either of two trees of the bean family, kraut-cutter (krout'kut'er), n. A hand-ma-Sophora tetraptera and Clianthus puniceus. The first has yellow flowers, and is further distinguished as yellow kowhai or locust-tree, while the second, with red flowers, is called scartet kowhai, parrot's-bill, or kaka-bill. See Clianthus and *goai.

kowl (koul), n. [Also cowl, cowle; < Hind. Ar.

qaul, speech, word, saying, vow.] A written engagement. [Anglo-Indian.]

korroboree, n. and v. See corroboree.

korumburra (kor'um-bur-\(\bar{e}\)), n. [Aboriginal Australian.] A brown-and-yellow flesh-fly.

E. E. Morris, Austral English.

kosher (k\(\bar{o}'\)'sh\(\beta'\)), v. t. To make 'kosher,' or ceremonially correct.

koshi (k\(\bar{o}'\)'sin), n. [koso (kosso, kusso) + -in^2.] kozo (k\(\bar{o}'\)'o, n. [Jap. k\(\bar{o}zo.\)]

Kozo (k\(\bar{o}'\)'o, n. [Jap. k\(\bar{o}zo.\)]

The pere-

kozo (kō'zō), n. [Jap. kōzo.] The paper-mulberry, Papyrius papyrifera. See Brous-

sonetia.

K. P. An abbreviation (a) of Knight of St.

kreutzer.

abbreviation of Knight of the K R An Redeemer (Greece).

kra (krā), n. [Malay krā.] A Malayan name of the crab-eating macaque, Macacus cynomulgus, widely adopted as a book-name.

kraal (kral or kral), v. t.; pret. and pp. kraaled, ppr. kraaling. [kraal, n. Compare corral, v.] To place (cattle or sheep) in a kraal or shed for shelter or safe-keeping. See kraal, n.

If goats are to produce the best fleeces they are capable of they must be maintained in uninterrupted good condition. They must have a variety of food, principally shrubs and aromatic plants, and lead an active life; they must, if possible, have running water to drink, and be kept free from dust; they must not be kraaled (or shedded) except when absolutely necessary; they must have clean sleeping places, and must not be crowded together. ded together.

Yearbook U. S. Dept. Agr., 1901, p. 278.

krach (kräsh), n. [F., < E. crash, n.] A 'crash' in finance.

In meance.

It must suffice to say that in the following May the great Vienna "Krach" occurred, and the colossal bubble of speculation burst, bringing with it all the ruin foretold by Lasker and Bamberger.

Encyc. Brit., XXV. 472.

krait (krit), n. [Also karait, korait; < Hind. karait.] A small snake, Bungarus caruleus or B. candidus, extremely venomous, and common throughout the greater part of the Indian subregion. It is all the more dangerous on account of its small size, and is believed to be responsible for a large share of the 20,000 deaths caused by wild animals that occur annually in India.

At the end of an hour he died as they die who are bitten

Kipling, The Recrudescence of Imray. Krakowiak (krä-kö' vi - äk), n. Same as Cracovienne.

Cracovienne.

kral (kräl), n. [Bulg. Sorbian kral, Serv. kralj, Bohem. král, Pol. krol, Russ. koroli, Albanian kralj, Turk. kral, keral, MGr. κράλης, Lith. karalius, Lett. kralits. a king; < OHG. Karl, Karal, ML. Carolus, the name of Karl the Great, Charlemagne the emperor of Germany: see carl. Compare cæsar, Russ. tsar, emperor, etc., from the name of Julius Cæsar.] The title of the kings of southern Slavonic countries. kral (kral), n. countries.

Brought Sisvan the *Kral* of Bulgaria to his knees. *Poole*, Turkey, p. 42.

krameric (krā-mer'ik), a. [Krameria + -ic.] Derived from ratany.—Krameric acid, a crystalline astringent compound contained in the root of ratany, Krameria triandria: used in medicine.

krameroform (krā-mer'ō-fôrm), n. A product similar to tannoform, made with kramero- or ratanhia-tannic acid.

Kran (kran), n. The monetary unit of Persia

kran (krän), n. and a current coin, valued at 710 United States cents or one tenth of a toman.

trans (kräns), n. [D. krans, wreath, rim, cornice, in S. Africa the overhang of a cliff; see crants.] The overhang of a cliff; a precipitous wall of rock which surrounds a valley. Also krantz. [South Africa.]

Behind the boulders, a narrow belt of trees in full dark-green foliage; and above, hemming in the view, the grim rusty-brown or purple krantzes and alternating slopes, clad at the dry seasons with faded scrub and trees, rising grandly up to the even edge of the plateau.

Geog. Jour. (R. G. S.), Feb., 1908, p. 140.

Kraunhia (krou'ni-ä), n. [NL. (Rafinesque, 1808), probably from a personal name.] A genus of climbing leguminous plants commonly known as Wistaria (which see).

Krause's corpuscle or end-bulb. See *cor-

krautweed (krout'wed), n. Either of two

lock, also called crowdweed, and Raphanus Raphanistrum, the wild radish, sometimes called white charlock.

Things for which we need a koul.

Called white charlock.

R. Kipling, in Pearson's Mag., Dec., 1897, p. 622.

K. R. C. An abbreviation of Knight of the Red Cross

K. R. E. An abbreviation of Knight of the

Red Eagle (Prussia).
kreatinic, kreatoxicon, kreatox
*creatinic, *creatoxicon, *creatoxin. kreatorin

krebspest (krebs'pest), n. [G., < krebs, crawfish, + pest, disease.] A bacterial disease of crawfish, prevalent on the continent of Eu-

The crayfish disease, 'Krebspest,' for years past wide-spread and destructive in Europe, but here unknown. The author and his assistant have made a special re-search on this subject and have described as the cause of the disease Bacterium pestis astaci. Science, July 1, 1904, p. 15.

kreoform, n. See *creoform.
kreolin, kreophagism, kreosol, kreotoxism, kresol. See *creolin, *creophagism, creosol, *creotoxism, creotoxism, creotoxism, creotoxism, creotoxism, creosol, *creotoxism, creotoxism,
*creotoxism, eresol.

Kressenberg beds. See *bed1.

kriegspiel (krêg'spēl), n. [G. krieg, war, + spiel, game.] A game designed to teach the principles of strategy and tactics. Two opposing combatant forces are represented by blocks made to the scale of the map upon which the game is played. These blocks represent the tactical units of each arm. The game is played by the commander of each force, and is supervised by an umpire. Until the forces are actually in sight of each other they are so screened that neither commander sees the operations of the other. Each move or change of position corresponds to a given interval of time. As chance is an element of warfare, it is represented in the game by the throwing of dice and reading the consequences in a table of possibilities.

krinin. krinogenic. See *crinin, *crinogenic.

sequences in a table of possibilities.

krinin, krinogenic. See *crinin, *crinogenic.

Krishnaism (krish'na-izm), n. [Krishna +
-ism.] The worship of Krishna (which see).

Krishnaism is of comparatively recent origin. A mass of
absurd and licentious rites and practices, it enjoys a
corresponding popularity throughout a great part of
India.

Krishnaist (krish'na-ist), n. One who worships the Hindu deity Krishna. See Krishna and *Krishnaism.

kriss, n. Same as creese.

Krohn's gland. See *gland.

kromskop (krōm'skōp), n. A trade-name of the *chromascope (which see).

krone, n. 3. A current silver coin of Austria and the Austrian dependencies, equal to 100 heller or 20100 United States cents.

Kronocentric (kron-ō-sen'trik), a. [Gr. Κρόνος, Saturn, + κέντρον, center, + -ic.] Relatingto saturn, τ κεντρον, center, τ τε.] I tenting to the planet Saturn as a center, or to the center of Saturn. Science, Jan. 29, 1904, p. 163.

kroumatic (krö-mat'ik), a. [Prop. (in Latinized form) *crumatic; < Gr. κρουματικός, < κροιματικός, </td>

 $\mu a(\tau)$, a stroke, a beat, $\langle \kappa \rho ob \epsilon \iota v$, strike, beat.] Sounded or produced by striking: said of musical instruments or tones. Hence—**Kron-matic music**, instrumental music in general. **Krupped** (krupt), a. Hardened by the Krupp process; Kruppized.

One calibre of Harveyed steel, or \$ calibre of Krupped rmour.

Encyc. Brit., XXXL 355

Kruppize (krup'iz), v. t.; pret. and pp. Kruppized, ppr. Kruppizing. [Krupp (see def.) + -ize.] To subject a steel armor-plate to the Krupp process of manufacture, by which the face is made very hard to a considerable depth, while the body of the plate remains

Owing to the great severity of the ballistic tests, which necessitates the employment of a Kruppized process, it is impossible . . . to furnish the armor at the prices stipulated by Congress as the maximum that can be paid.

Army and Navy Register, June 3, 1899.

kruzhka (krözh'kä), n. [Spelled erroneously. in G. and F. style, kruschka, kruchka, etc., (Russ. kruzhka, a jug, tankard, cup, also a liquid measure; dim. of Pol. kruzh, Polabian kreuz, a jug, etc.: cf. MHG. krüze, G. krause; E. cruse.] A Russian liquid measure equiva-E. cruse.] A Russian liquid measure equiva-lent to 0.32 of a United States gallon. Also krouchka.

kryofine (krī'ō-fin), n. kryofine (kri'ō-fin), n. [Gr. κρίος, frost, + (paraf)fine.] A colorless, crystalline compound formed by heating paraphenetidin and methyl-glycolic acid together: it is antipyretic and analgesic.

kryogen, kryokonite, kryoscopy. See cryogen, cryoconite, *cryoscopy.

reduced that etc., n. A hand-harger, regionally, exposing, exposing, exposing, exposing, exposing, exposing, exposing, exposing and shredding cabbages in making sauer-kraut. One type employs a revolving disk having radial knives.

revolving disk having radial knives.

**revolving (krip'tē-on), n. [Gr. κρυπτός, hidden. + -eon, as in accordeon.] In exper. psychol., an exposure apparatus of simple construction, introduced by E. C. Sanford in 1896. The krypteon consists of a board set obliquely

upon a base, and having a flap of cardboard hinged along its lower edge. The flap can be turned up and down for successive exposures of visual stimuli.

kryptol (krip'tol), n. [Gr. κρυπτός, hidden, + -ol.] A trade-name for a loose, granular material, a mixture of graphite, carborundum, and fire-clay, having a high electrical resistance. It is used in electric stoves and furnaces, particularly those for scientific purposes, as a means of producing high and easily regulated temperatures by the passage through it of an electric current. Amer. Jour. Psychol., XII. 302.

krypton (krip'ton), n. [NL. krypton, prop. "crypton, (Gr. κρυπτόν, neut. of κρυπτός, hidden, secret: see crypt.] A chemical element, one of the five recently discovered gaseous constituents of the atmosphere, first obtained by Ramsay and Travers in 1898. It is colorless, transparent, without observable taste or smell, of density 40.88 as compared with hydrogen, liquefiable at—151.7° C. under atmospheric pressure, and occurs in the atmosphere to the extent of but 1 volume in 20,000,000 volumes of air.

of air.

On June 6, 1898, the discovery of yet another element was announced, in a communication made by Prof. Ramsay, of London, to the Academy of Sciences, of Paris. The communication was read to the Academy by M. Berthelot. This new element is a gas, and makes a fifth constituent of the atmosphere; it is, however, present in very minute quantities, viz, one part in ten thousand of its volume. Krypton belongs not to the argon, but the helium group; its density is greater than that of nitrogen, being, according to the corrected measurement, 22.47.

Sci. Amer., July 9, 1898, p. 26.

krystic, a. See *crystic. K. S. An abbre

krystic, a. See *crystic.
K. S. An abbreviation (a) of King's Scholar;
(b) of Knight of the Sword (Sweden).
K. S. A. An abbreviation of Knight of St. Anne (Russia).
K. S. G. An abbreviation of Knight of St. George (Russia).
K. S. P. An abbreviation of Knight of St. Stanislaus of Poland.
*tt. An abbreviation of knight

kt. An abbreviation of knight.

K. T. An abbreviation (a) of Knight Templar;
(b) of Knight of the Thistle (Scotland).

Kt. Bach. An abbreviation of Knight Bachelor. ktypteite (tip'tē-īt), n. [Appar. irreg. < Gr. κτύπος, a loud noise, + -t- + -e- + -ite².] Calcium carbonate occurring in pisolitic form at Karlsbad, Bohemia, and elsewhere: it is probably a kind of aragonite, and is converted into calcite by heat.

kuan-liao (kwän-lē-ou'), n. [Chinese kuan, of the state, official, + liao, flux of glass, colored glass.] Imperial glass made at Peking, China

kubong (kö-bong'), n. [Malay kūbong.] The flying-lemur. See *colugo.
kudu, n. See koodoo.
kuh (kö), n. [Achinese?] A tin coin of Achin, Sumatra, equal to one four hundredth of a peso or dollar.

Kuhlia (kö'li-ä), n. [NL., named after Heinrich Kuhl, a naturalist who discovered the typical species in the streams of Java.] genus of fishes, belonging to the family Kuhliidæ, found in the tropical Pacific.

Kuhlidæ (kö-li'i-dē), n. [NL.. < Kuhlia + -idæ.] A family of fishes of the tropical Pacific. kujawiak (kö-yä'vi-äk), n. [Pol., < Kujaw, G. Kujau, a town in Silesia.] A Polish dance resembling the mazurka; also, the music for

kuku (kö'kö), n. A large and handsome fruit-

pigeon, Carpophaga novæ-zelandiæ, found in New Zealand.

New Zealand.

kukui (kö-kö'ē), n. [Hawaiian Kukui (= Tahitian tutui), \langle kui = Tahitian, Tongan, Marquesan, etc., tui, pierce or thread upon a skewer, = Maori tuitui, sew.] In Hawaii, the candlenut-tree, Aleurites Moluccana, which is easily recognized among the trees of the forest by its silvent foliage. easily recognized among the trees of the for-est by its silvery foliage. The leaves are either un-divided or lobed, and are usually cordate at the base, with a pair of glands at the junction of the blade and the petiole. Throughout Polynesia the oily nuts are roasted and strung upon a reed or the rib of a cocoanut-leaflet, and used by the natives for illuminating their houses. These nuts also furnish the lampblack used for painting and tattooing. In Hawaii the roasted kernels are chopped fine, mixed with certain seaweeds and salt, and used as a relish at native feasts. The oil derived from the kernels is amber-colored, odorless, and very fluid; it acts as a mild cathartic. See Alcurites.

mild cathartic. See Aleurites.

kulaite (kū'la-īt), n. [Kula, in Lydia, Asia Minor, + .ite².] A group of basalts from the Kula basin, Asia Minor, containing more hornblende than augite, and differing in the kinds of feldspathic constituents. One variety contains orthoclase and bytownite in nearly equal propor-

tions with nephelite; another contains andesin, with leucite and nephelite. Washington, 1894.

kuliat (kö-lē-āt'), n. [Also culiat; said to be

kuliat (kö-lē-āt'), n. [Also culiat; said to be Tagalog.] A name applied in the Philippines to Gnetum scandens, a climbing shrub with opposite leaves and catkin-like infloresence. The seeds are roasted and eaten by the natives, and the stem yields a fiber which is used for cordage and, in the Andaman islands, for making fishing-nets. Also called mala-itmo (talse betel-pepper) and itmong-oudk (crow's betel-pepper.) Also culiat. See Gnetum.
kulp (kulp), n. [Origin obscure.] A species of shark or dogfish, Squalus spinax niger.
kulturkampf (kul-tör kämpf*), n. [G., kultur, culture, civilization, + kampf, fight.] A struggle for civilization: a name given to the conflict be-

tween the imperial government of Germany and the Roman Church, which lasted from 1872 till 1886. The name was first given to it by Virchow, in one of the mineral manifestos, to imply that it was a struggle of the mineral niccolite: so called because, of the mineral niccolite: so called because, 1886. The name was first given to it by Virchow, in one of his electoral manifestos, to imply that it was a struggle of principle between the teaching of the Roman Church and that of modern civilization.

that of modern civilization.

In Germany, when the Pontificate of Leo XIII. began, a disastrous conflict between the Imperial Government and the Church was in progress. It was called the Kulturkannyf, as professing to be undertaken on behalf of civilization and culture; but it had originated in the belief, instilled into the Government by interested persons that the Vatican Decrees on Infallibility were issued for a political purpose.

Encyc. Brit., XXXXII. 271.

herer: used in wireless telegraphy.

Dr. Fleming said that the time had arrived to introduce a new word into the art of wireless telegraphy. The whole apparatus by which the messages were translated was called a receiver, which was too wide a word to be considered as a definition. The arrangement by which the electric impulses in the receiving aerial were utilized was called a "coherer": but since that word had been introduced, contrivances for the purpose had been devised which did not cohere, and therefore the word was too limited in its application. He had therefore ventured to coin a fresh word, which was "kumascope," derived from the Greek word κύμα, a wave; it was similar to electroscope and many others of a like kind.

Sci. Amer. Sup., July 18, 1903, p. 23033.

Contact kumascope, a receiving instrument, in wireless

Sci. Amer. Sup., July 18, 1903, p. 23083.

Contact kumascope, a receiving instrument, in wireless telegraphy, which depends for its action upon changes in contact-resistance under the action of electric waves, that is, upon coherer action.—Magnetic kumascope, a receiving instrument, in wireless telegraphy, which depends for its action upon the magnetizing or demagnetizing effect of electric waves.

kumascopic (kö-ma-skop'ik), a. Of or pertain-

ing to the kumascope.

Kumassi (kö-mas'i), n. [W. African; also spelled *Coomassie*.] The name of a town in West Africa, used as a label for several colors. See *black, *blue, etc.

kumatologist (kö-ma-tol'ō-jist), n. [kuma-tolog-y + -ist.] A student of kumatology; one who makes a special study of oceanic and atmospheric waves and of their influence on

geologic and geographic phenomena. **kumatology** (kö-ma-tol' \bar{o} -ji), n. [Irreg. \langle Gr. $\kappa \bar{\nu} \mu a(\tau)$, wave, + - $\lambda o_{\gamma} \mu a$, $\langle \lambda \ell \gamma e_{\ell} \nu_{\gamma}$, speak.] The science of the forms and characteristics of waves. See the extract.

I [Vaughan Cornish] think the time has come when it will be for the advantage of our science that there should be a distinctive word for the study of the waves and wavestructures of the Earth as a special branch of geography. Κύμα, genitive Κύματος, is Greek for 'a wave. I propose that the word 'kumatology' be added to the vocabulary of our science, to designate that department of geography which deals with the waves and wave-structures of the Earth.

Geog. Jour. (R. G. S.), XIII. 624.

Earth. Geog. Jour. (R. G. S.), XIII. 624. **kumera**, n. See *kumara. **kummeter** (kö'me-ter), n. [Irreg. \langle Gr. $\kappa \bar{\nu} \mu a$, wave, $+ \mu \epsilon \tau \rho o \nu$, measure.] A form of cymometer for measuring the lengths of the waves used in wireless telegraphy. J. A. Fleming, in Trans. Internat. Elect. Congress, 1st ser., 1004 III 616

tree of the rue family, Atalantia glauca, bearing round, acid fruits about one half inch in diameter, from which an agreeable beverage or preserves can be made. Its wood is of a bright yellow color with brown streaks or veins. Called also desert lenon. See cumquat.

kundt's constant, law. See *constant, *law¹. kungu (köng'gö), n. [Also nkungu; a native name near Lake Nyassa.] A winged aquatic insect supposed to belong to the culicid genus Corethra. It arises in swarms from Lake

parent piuk-and-purple lilac variety of spoduhiene. It is found in crystals near Pals, San Diego county, California, and affords gems weighing from 1 to 200 carats each. Described by Baskerville in "Science" for August, 1904. It is very phosphorescent when exposed to radium rays, the Röntgen rays, etc.

kupang (kö'päng), n. [Philippine Sp. cupang, prob. connected with Bisaya copang, a skein of cotton or silk.] In the Philippine Islands, Parkia cotton or silk.] In the Philippine Islands, Parkia Roxburghii, a tree belonging to the mimosa family, with bipinnate leaves having minute leaflets and one or two glands on the petiole. The flowers are borne in dense heads at the end of long peduncles, and the pods are about a foot long bearing numerous seeds surrounded by a sweet pulp. The tree is said to yield a resin used for illuminating. Also written cupang and copang.

though an ore of nickel, it has a coppery-red color.

kura (kö'rä), n. [Jap. a storehouse.] In Japan, a building without large windows and unfit for residence, arranged as a thoroughly fire-proof storehouse for valuables. It forms a separate place of storage, where the proprietor's works of art and other treasures are kept. Compare

a political purpose.

kumara (kö'mä-rä), n. [Maori. Also kumera, kumarrah; ⟨ kumara = Samoan umala, = Tahitian umara, etc.] The aboriginal name in New Zealand for the sweet potato.

kumascope (kö'ma-skōp), n. [Irreg. ⟨ Gr. kurbash, n. See koorbash.

κῦμα, wave, + σκοπεῖν, view.] An instrument for detecting electric waves; a receiver or coherer: used in wireless telegraphy.

Dr. Henving seld that the time had sarved to introduce chosen to avenge the death of one who has chosen to avenge the death of one who has died, every death being supposed to be due to the magic influence of some enemy.—2. A kind of shoe, made of emu-feathers matted together with human blood, worn by the kur-daitcha when on his errand. See def. 1. E. E. Morris, Austral English.

kurgan (kör-gän'), n. [Russ. kurganŭ, Pol. kur-han, = Pers. kurkhāne, a mound, tumulus, < North han, = Pers. kurkhāne, a mound, tumulus, < North Turk. kurgan, a fortified place.] One of the pre-historic burial-mounds in Russia, found from the Carpathians eastward into Siberia. Most of the kurgans belong to the stone age and contain re-mains of a dolichocephalic type which preceded the present brachycephalic type of Russia. They were, how-ever, used as late as the tenth century of our era.

To the British barrows, of which there are two types, the older long and the later round-shaped, correspond the Kurgans of the Russian steppe lands, and the aheady described mounds of North America. Both the Kurgans and the mounds reach far into the historic period, and the Kurgans were still used as burial-places in the 10th and 11th centuries of the new era. Kane, Ethnology, p. 126.

kurhaus (kör'hous), n. [G., < kur, cure, + haus, house.] The principal building at a watering-place; a house arranged for the convenience of persons who resort to mineral springs and the like.

Kurlbaum's process. See *process.

kuromatsu (kö'rō-mät'sö), n. [Jap. kuromatsu, kuro matsz, < kuro, black, + matsu, matsz, opine.] A valuable timber-tree, Pinus Thunbergii, yielding a durable wood, used for bridge-construction and engineering-work, particularly below ground.

particularly below ground.

kuromoji (kö'rō-mō'ji), n. [Jap. *kuromoji \(\lambda kuro, \text{black}, + moji, \text{cotton gauze} \] Any one of several species of snrubs or small trees belonging to the laurel family, especially Benzoin sericeum, B. umbellatum, B. citriodorum, and Litsea glauca. Several of the species, particularly the first named, yield a grayishwhite, silky, fragrant wood which is used for the manufacture of toothpicks. From the the manufacture of toothpicks. From the foliage of several species a volatile oil is obtained.

kurrajong (kur'a-jông), n. Same as currajong: the name is also applied to a number of other malvaceous and sterculiaceous trees or shrubs yielding strong bast-fibers from which the natives make cordage, nets, or matting. See the phrases below.—Black kurrajong, any one of several species of trees belonging to the genus Sterculia, especially S. diversifolia, and another sterculiaceous tree, Rulingia pannosa.—Brown kurrajong, a small tree of the family Sterculiaceæ. Commersonia cchinata, having soft, light, white wood.—Green kurrajong, a tall malvaceous shrub, Hibiscus heterophyllus. Called also Queensland sorrel.—Tasmanian kurrajong, Plagianthus sidoides. See currajong.

kurtorachic (ker-tō-rā'kik), a. [For *cyrto-rhachic; ζ Gr. κυρτός, curved, + ράχις, spine.] Having a spinal column with a lumbar curve convex forward, or a lumbo-vertebral index of less than 98. Turner. kuruma (kö'rö-mä), n. [Jap.] A Japanese K. W. E. An abbreviation of Knight of the cart; a vehicle of any kind, including the jinWhite Eagle (Poland).

The . . . charm of Japan . . . began for me with my first kuruma-ride out of the European quarter of Yokohama into the Japanese town. . . . The Jinrikisha, or kuruma, is the most cozy little vehicle imaginable. L. Hearn, Glimpses of Unfamiliar Japan, I. 1, 2.

Kyang (kyäng), n. [Also kiang, : Tibetan kyang.] The wild ass of Tibet, Equus hemionus. L. Hearn, Glimpses of Unfamiliar Japan, I. 1, 2.

kurung (ku-rung'), n. See * kurunj.

kurunj (ku-rung), n. See * kurunj.
kurunj (ku-runj'), n. [Also kurung; < Marathi
kurunj, Hindi kurung, < Skt. kurunja.] A
tall, erect leguminous tree or climber, Pongam
pinnata, of the family Leguminosæ. See
Pongam (Pongamia).

The journey to De Kaap by bullock-waggon occupied about six weeks. "Kurneying" (the conducting of transport by bullock-waggon) in itself constituted a great industry.

**Encyc. Brit., XXXI. 81.

form (after conveyor) of D. karweier, < karvei, a job, MD. corweie, < OF. corvee, forced labor: see corvée.] In South Africa, a traveling carrier or trader who carries the goods of kurveyor (ker-va'or), n. others from one point to another in his heavy ox-wagon, and who also peddles his own

Kushite, kusso. See Cushite, cusso.

kusimanse (kö-si-män'se), n. [W. African.] A small West African civet-cat, Crossarchus obscurus.

obscurus.

kusum (kus'um), n. [Hind. kusum, also kasum, kasum, kusumbh, kusumbha, < Skt. kuskylie, n. See *kiley.

umbha.] The safflower, Carthamus tinctorius.

kylin, n. See kilin, *kirin.

Kutorgina (kū-tôr-jī'nā), n. [NL.] of Cambrian protrematous brachiopods with incipient cardinal area, great delthyrium, and very rudimentary processes and deltidium. (ki-lō'sis), γ. [NL., ζ Gr. κέλ-ky-amp. An abbreviation for kilovolt-ampere. λωσις, crooking,

ky-amp. An abbreviation for kilovolt-ampere. k. w. In elect., an abbreviation of kilowatt.

kwan¹ (kwän), n. [Also quan; Annamese.]
A silver coin of Annam and Cambodia, equivalent to a string of 600 cash or to 4 francs.

kwan² (kwan), n. [Jap.] A Japanese unit of weight, equal to 1,000 momme or 8.28 pounds avoirdupois. C. Hering, Conversion Tables, p. 61.

kwazoku (kwä-zō'kö), n. [Jap.] One of the two classes of modern Japanese nobility, corresponding to the old territorial nobility.

kw-h. An abbreviation of kilowatt-hour. Ky. An abbreviation of Kentucky.

of a dark-reddish color, with a narrow stripe along the back.

It is, perhaps, worth while for me to say that this animal, the kyang, is a decided ass, and not a horse.

Geog. Jour. (R. G. S.), XV. 397.

kyanism (kī'an-izm), n. [Named after J. H. Kyan, the inventor of the process.] Impregnation (of wood) with a solution of corrosive

kyar (ki'är), n. Same as coir. kybosh, n. and v. See *kibosh. kychtymite (kich'ti-mit), n. [Kychtym, in Russia, +-ite².] Same as *kischtimite. Moro-ziewicz, 1897.

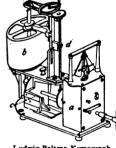
Russia, ziewicz, 1897. **kyesamechania** (kī-ē'sa-mē-kā'ni-a), π. **kyesamechania** (kī-ē'sa-mē-kā'ni-a), π. **kyesamechania** (kī-ē'sa-mē-kā'ni-a), π. **kyphosinæ** (kī-fō-sī'nē), π. μ.

machine, contrivance, means: see machine, mechanic.] In biol., a hindrance to impregnation; the inability of a certain group of individuals to impregnate others than themselves, humpbacked, + L. -osus, E. -ous.] A genus of fishes belonging to the family Kyphosidæ, inhabiting the Pacific Ocean, some of them American, but most East Indian.

A genus kylindrite, n. oods with *cylindrite.

crippling, (κυλλούν, erippie, crippie, crippie, crippled, as a leg outward.] Same as club-foot.

kymatologist, ky-matology. Same as *kumatologist, *ku-



Ludwig-Baltzar Kymograph kymatologist, kymatology. Same as

*kumatologist, *kumatology.

kymograph, n.Ludwig-Baltzar kymograph.
Ludwig-Baltzar kymograph, a perfected

Ludwig-Baltzar kymograph, a perfected form of the physiological kymograph of C. Ludwig, built by the mechanician G. Baltzar: it is remarkable for its extreme accuracy and wide range of utility. The instru-ment is now supplied by practically all dealers in phys-iological and psychological apparatus.

 Tibetan kymographion (ki-mō-graf'i-on), n. Same as kymograph.

kynanthropy (kī-nan'thrō-pi), n. Same as cynanthropy.

kynite (ki'nīt), n. A dynamite containing about 25 per cent. of nitroglycerin.

kynophobia (kin-ō-fō'bi-ä), n. Same as *cynophobia, 2.

the spine.

Kyphosidæ (kī-fos'i-dē), n. pl. [NL., < Ky-phosus + -idæ.] A family of fishes inhabiting chiefly the Mediterranean Sea and the Pacific

kyphotic (ki-fot'ik), a. [kyphosis (-ot-) + -ic.]
Relating to or affected with kyphosis.—Kyphotic pelvis. See *pelvis.
kypoo (ki'pö), n. An astringent solid extract

similar to gambier or catechu, made in Ceylon.

Kyrielle (kir-i-el'), n. [F. kyrielle, dim. of kyrie: see Kyrie eleison.] 1†. Same as Kyrie eleison.—2. [l. c.] A verse form in French poetry, divided into equal couplets ending with the same word, which serves as a refrain. N. E. D.

The kyrielle, of which we have three specimens, . . . ought to nave been discarded.

Saturday Rev., Dec. 3, 1887, p. 770

kyrin (kī'rin), n. [Appar. (Gr. κῦρος, supreme power (†), + -in².] An end-product of proteolytic digestion, of the type of a polypeptide, as glutokyrin.

kytomitome (kī-tom'i-tōm), n. Same as *cy-









2. A symbol: (a) (2) In labialate (lā'bi-a-lāt), a. and n. [labial + chem., l- before certain com-ate^1.] Same as labiate, pounds has reference to their labiality (lā-bi-al'i-ti), n. [labial + -ity.] The levorotation, as distinguished character of being labial, especially in phofrom dextrorotation (d-) or inaction (i-). (c) In mineral.

inaction (i-). (c) In mineral., the final letter of the general symbol hkl, given to the face of a crystal in the system of for *inductance (which see). (e) In phys., for length: used in formulæ.—3. An abbreviation (l) of Lady; (m) of Lake; (n) [l. c.] of lane; (o) of Latitude; (p) [l. c.] of law; (q) [l. c.] of league or leagues; (r) [l. c.] of leave; (s) [l. c.] in a ship's log-book, of length; (t) of Liberal; (u) [l. c.] of the Latin libra, a pound in weight; (v) [l. c.] of link or links; (w) [l. c.] of liter; (x) of London; (y) [l. c.] of long; (z) of Lord; (aa) [l. c.] of low.

L3 (el), n. Used colloquially for el., an abbreviation of elevated, shortened from elevated

breviation of elevated, shortened from elevated

railway.
1. 1 e., 1. 2 e., etc. Abbreviations of left first entrance, left second entrance, etc.
La. 2. A contraction of Louisiana.

An abbreviation of Literate in Arts. laager, v. II. intrans. To halt and form a laager; encamp in a laager: as, we laagered five miles farther on.

laap(läp), n. Same as *laarp, lerp. [Australia.] laap-insect (läp'in'sekt), n. Same as *lerp-

insect.

laarp (lärp), n. Same as lerp. [Australia.]

laavenite, n. Same as *lavenite.

Lab. An abbreviation (a) of Labrador; (b)

[l. c.] of laboratory.

labarri (lä-bä'rē), n. [Also labaria: from a native name.] A very deadly snake, Trigonocephalus atrox, of Guiana and eastern Brazil.

It is gravish brown with darker markings, the It is gravish brown with darker markings, the coloration harmonizing with the dead leaves and fallen branches.

The Labarri is usually found coiled on the stump of a tree, or in some other place where it can hardly be distinguished from the object on which it is lying. It is mortally poisonous when adult. It may be described as rainbow-colored in life, but its brightness fades soon after death. It is said that specimens eight feet long have been killed.

Sci. Amer., March 7, 1903, p. 176.

Sei. Amer., March 7, 1903, p. 176.

labba (lab'ä), n. [Arawak lappa (Martius, 1863, p. 311).] In British Guiana, a name applied to the paca, Calogenys paca. It seems formerly to have been also used for the agouti, as the name occurs in books of West Indian travel and the control of the second se travel, and the paca was never a resident of the West Indies.

the West Indies.

Labechia (la-besh'i-g), n. [NL.] A genus of Stromatoporidæ of the Silurian period, characterized by the plate-like expanded comostems, the surface of which is covered with netics, sounded in the throat and shaped by teum, the surface of which is covered with wart-like prominences which are the ends of solid vertical pillars. Between these develop irregular laminæ.

labefactt (lab'ē-fakt), v. t. [L. labefacere, pp. labefactus, cause to totter: see labefaction.]
Same as labefy.
labefact (lab'ē-fakt), a. [L. labefactus, pp.]
Weakened; tottering; giving way.

Weakened; tottering; giving way.

label-card (lā'bel-kārd), n. A card with name of owner, destination, or other particulars labionasal (lā'bi-ō-nā'zal), a. and n. [L. labium, lip, + nasus, nose, +-all.] I. a. Formed or pronounced by the cooperation of the lips direction; a label.—Label-card slide, a slide of metal containing a label-card: usually applied to such a slide on a mail-pouch.

labellate (lā-bel'āt), a. [NL. *labellatus, < labellum, a little lip: see labellum.] Long-lipped. J. D. Dana.

label-stop (label-stop), n. In arch., the termination of a label or dripstone: usually a

nation of a label of dripstone: usually a decorated boss or corbel.

Labial cartilage, one of several cartilages, occurring in pairs, attached to the anterior part of the cranium or to the cartilages bounding the mouth: typically present in aborts.

netics and music.

labiatifioral (lā-bi-ā-ti-flō'ral), a. Same as labiatiflorous.

labichorea (lā"bi-kō-rō'ā), n. [NL., < L. la-bium, lip, + NL. chorea.] A form of dyslalia or speech defect, due to a spasmodic closing of the lips in the enunciation of the labials, so that the latter are separated by an interval from the succeeding vowels. Also called labi-

choreic stuttering. labichoreic (la"bi-kō-rē'ik), a. Pertaining to

or affected with labichorea. **Labidesthes** (lab-i-des'thēz), n. [NL., irreg. $\langle Gr. \lambda a \beta i \varepsilon \rangle$, forceps, $+ \varepsilon \sigma \theta i \varepsilon v$, eat.] A genus of fishes of the family Atherinidæ, found in the Great Lakes and the lakes of the upper Mississippi valley.

labile, a. 2. ln med., noting a mode of application of electricity in which the active elec-trode is passed back and forth over the nerve or muscle to be acted upon: opposed in this sense to *stabile.—Labile equilibrium. See *equilibrium.

lability, n. 2. Instability, as, in *chem.*, the quality of being easily broken down to form simpler chemical compounds or even elements.

By combining these two methods there is induced a "nuclear lability," which renders these eggs susceptible to the influence of carbon dloxide as a provocative of cleavage. Jour. Roy. Micros. Soc., April, 1904, p. 188.

labilize (lab'i-līz), v. t.; pret. and pp. labilized, ppr. labilizing. [labile + -ize.] In chem., to make labile or more readily susceptible of change; make unstable.

The role of the oxygen must have been that of a labilisag agent, directly producing the condition for explosive ecomposition in the active biogens.

Nature, Feb. 26, 1903, p. 385.

Acture, Feb. 26, 1903, p. 886. labiobidental (la bi-o-bi-den tal), a. and n. Pronounced with the lips and two teeth: a phase of labiodental. Stud. Yale Psychol. Lab., X. 104.

labioglossolaryngeal (lā'bi-ō-glos'ō-lā-rin'jō-al), a. [L. labium, lip, + Gr. γλώσσα, tongue, + λάρνγξ, larynx, + -e-al¹.] Relating to the lips, tongue, and larynx. Bulbar paralysis, affecting these parts, is sometimes so designated.

labiograph (lā'bi-ō-grāf), n. [L. labium, lip, + γράφειν, write.] In physiol. and psychophys., an instrument for recording the voluntary (in speaking) or involuntary movements of the

the lips.

labiomancy (lā'bi-ō-man'si), n. [L. labium, lip, + Gr. µavreia, divination.] Divination or interpretation by means of the motions of the lips; specifically, lip-reading.

labiomental (lā'bi-ō-men'tal), a. [L. labium, lip, + mentum, chin, + -atl.] Relating to the lips and the chin.

and the nose.

II. n. An articulate sound produced by the Caboulbeniaceæ. Also called Laboulbeniaeæ. coöperation of the lips and the nose or the Laboulbeniaeæ (la-böl-bē-ni-ī'nē-ē), n. pl. letter or character representing such sound, [NL.] Same as *Laboulbeniales. letter or character representing such sound, namely, m. In pronouncing m, the lips are closed and nasal passages are open.

labiopalatine (lā'bi-o-pal'ā-tin), a. [L. la-bium, lip, + palatum, palate, + -inel.] Relating to the lips and the palate.

labioplasty (lā'bi-ō-plas'ti), n. [L. labium, lip, + Gr. πλαστός, formed, + -y³.] A plastic 695

operation to replace the whole or a part of a lip which has been lost.

labipalp, n. (b) In lamellibranchs, an extension of the margin on each side of the mouth into a more or less elongated structure having a grooved and ciliated surface and serving to collect food-particles and conduct them to the mouth.

labization (la-bi-za'shon), n. Same as bebization.

zation.

labor¹, n.—Bureau of Labor. See *bureau.—Dry labor, childbirth attended with little or no discharge of liquor amnit.—Federation of Labor. See *deteration.—Induced labor, labor in which the uterus is incited to contract by artificial means.—Labor party, any political party formed of working-men, or professing to represent the interests of labor, that is, of working-men.—Missed labor, a condition in which the fetus is retained in the womb beyond the normal period of gestation.—Postponed labor, labor occurring after the term of normal gestation is past.—Socialist Labor party, a political and socialist party in the United States. It was formed in New Jersey, in 1877, out of an earlier organization (the Social Democratic Working-men's party, formed in National and State polities with a ticket of its own.—United Labor party, a political party organized in the interests of labor, which, in 1888, nominated a candidate for President.

laborage (lā'bor-āj), n. [labor1 + -age.] 1†. labor1

laborage (lā'bor-āj), n. [labor¹ + -age.] 1†. Plowing; plowed land.—2†. Labor; work.—3. Payment for labor.

laboratorial (laboratory + ial.] Relating or belonging to a laboratory. laboratorian (laboratorian), a. and n. [laboratory + -an.] I. a. Of or pertaining to a laboratory.

II. n. One who conducts scientific investi-

gations in a laboratory.

laboratory, n. 3. The space between the fire and the flue-bridges of a reverberatory furnace in which the work is performed.—Laboratory milk. See *milk.—Marine laboratory, a laboratory or observatory situated upon the ocean or its shore, and equipped with appliances for collecting, observing, and experimenting upon marine animals and plants; a marine zoological station.

experimenting upon a collegical station.

labor-day (lā'bor-dā), n. In some of the States, a legal holiday, commonly the first Monday in September, established for the benefit of the laboring classes.

laborist (lā'bor-ist), n. and a. I. n. A memaly control of the laborist (lā'bor-ist), n. and a. I. n. A memaly control of the laborist (lā'bor-ist), n. and a. I. n. A memaly control of the laborist (lā'bor-ist), n. and a. I. n. A memaly control of the laborist (lā'bor-ist), n. and a. I. n. A memaly control of the laborist (lā'bor-ist), n. and a. I. n. A memaly control of the laborist (lā'bor-ist), n. and a. I. n. A memaly control of the laborist (lā'bor-ist), n. and a. I. n. A memaly control of the laborist (lā'bor-ist), n. and a. I. n. A memaly control of the laborist (lā'bor-ist), n. and a. I. n. A memaly control of the laborist (lā'bor-ist), n. and a. I. n. A memaly control of the laborist (lā'bor-ist), n. and a. I. n. A memaly control of the laborist (lā'bor-ist), n. and a. I. n. A memaly control of the laborist (lā'bor-ist), n. and a. I. n. A memaly control of the laborist (lā'bor-ist), n. and a. I. n. A memaly control of the laborist (lā'bor-ist), n. and a. I. n. A memaly control of the laborist (lā'bor-ist), n. and a. I. n. A memaly control of the laborist (lā'bor-ist), n. and a. I. n. and a.

ber of a labor party or one who is an advocate of the interests of labor.

II. a. Pertaining to labor and its interests. laborite (la'bor-it), n. In British politics, a member of the Labor party.

The heavy vote given to the Liberals in England by the Labor Party, the "Laborites," as they are there called, does not at all mean that the issue of protection is not the main one.

N. Y. Times, Jan. 16, 1906.

Laboulbenia (la-böl-bē'ni-ä), n. [NL. (Montagne and Robin, 1853), named after Alexandre Laboulbène, a French entomologist.] A genus of minute ascomycetous fungi containing numerous species parasitic upon insects, especially beetles. The perithecium is borne on a stalk-like receptacle with appendages and one or more antheridia at one side. The reproduction is sexual and resembles that of the red seaweeds. The asci are 4-spored. L. elongata is a cosmopolitan species found on beetles of the genera Platynus, Colpodes, etc.

Laboulbeniacess (la-böl-bē-ni-ā'sē-ē), n. pl.

[NL., \ Laboulbenia + -acex.] A large family of peculiar ascomycetous fungi named from the genus Laboulbenia.

Laboulbeniales (la-böl-bē-ni-ā'lēz), n. pl. [NL., < Laboulbenia + -ales.] An order of ascomycetous fungi containing the single family

labradophyric (lab'ra-dō-fir'ik), a. [labrador(ite) + (por)phyr(it)ic.] Noting porphyritic igneous rocks whose phenocrysts are labradorite. Dana, Manual of Geol. (4th ed.), p. 77.

Labradorean (lab-ra-do'rē-an), a. and n. Same as *Labradorian.

Labradorian (lab-ra-dō'ri-an), a. and n. [Lab-rador + -ian.] I. a. Of or pertaining to Labrador.

II. n. In geol., a subdivision of the Archæan rocks of New Hampshire: proposed by Hitchcock for a group below the Huronian. Dana, Manual of Geol. (4th ed.), p. 446.

labrador-rock (lab'ra-dôr-rok'), n. A rock composed almost wholly of labradorite. Same

as *anorthosite.

labrador-stone (lab'ra-dôr-ston'), n. Same as

labrosaurid (lab-rō-sâ'rid), n. and a. I. n. One of the Labrosauridæ.

II. a. Of or pertaining to the Labrosauridæ. labrosauroid (lab-rō-sâ'roid), a. Related to or having the characters of the genus Labro-

Saurus.

Labrosomus (lab-rō-sō'mus), n. [NL. Labrosomus (Gill) for earlier Labrisomus (Swainson, 1839), ⟨NL. Labrus + Gr. σῶμα, body.] A genus of blennioid fishes, found in the Atlantic from the West Indies to Brazil.

Labrum² (lā'brum), n.; pl. labra (-brš). [L. labrum, contraction of lavabrum, ⟨ lavare, wash: see lave² and compare lavatory, laver¹.] In Rom. archæol., a bath-tub, especially one of those of hard, fine material more or less richly sculptured, rather common in the or less richly sculptured, rather common in the museums of Italy. Also called lavabrum. labrys (lab'ris), n. [Gr. $\lambda 4\beta \rho v_{\ell}$ (given as a Lydian word), same as $\pi \ell \lambda \epsilon v_{\ell}$, an ax.] See

*double ax.

This discovery in the Palace of a shrine of the Double Axe, and its associated divinities, derives a special interest from the connection already established on philological grounds between labrys, the Carian term for the sacred Double Axe, and the name Labyrinth.

A. J. Evans, in Jour. Roy. Inst. of Brit. Architects, X. [108.]

laburnic (lā-ber'nik), a. [laburnum + ic.]
Pertaining to or derived from laburnum.—
Laburnic acid, a substance contained in the seeds and bark of laburnum. Laburnum. It is probably a mixture of organic and inorganic acids.

laburnum, n.—Native laburnum. Same as *clovertree.—Sea-coast laburnum, in Australia, a cosmopolitan ahrub or small tree of the warmer regions, Sophoratomentosa. See Sophora.
labyrinth-beetle (lab'i-rinth-bē'tl), n. Any
beetle of the family Bostrychidæ (which see).

Kirhu and Sonnas

Kirby and Spence.

labyrinthitis (lab'i-rin-thī'tis), n. [NL., < Gr. λαβιρινθος, labyrinth, + -itis.] Inflammation of the labyrinth of the internal ear.

labyrinthodontoid (lab-i-rin-thō-don'toid), a. and n. [labyrinthodont + -oid.] I. a. Pertaining to or having the characters of the genus Labyrinthodon.

II. n. A stegocephalous amphibian related to the genus Labyrinthodon.

labyrinthous (lab-i-rin'thus), a. [labyrinth + -ous]. Having a labyrinthine or meandering arrangement, as the tubes in the interior of certain extinct sponges.

arrangement, as the tubes in the interior of certain extinct sponges.

1a.C², n.—Arisona lac, the product of an insect, Carteria Larras, belonging to the Coccids, which intests the creosote-bush, Covillea tridentata. It resembles the gumlac of commerce and yields a red coloring matter showing the reactions of cochineal. The substance is found as an incrustation on the twigs of the bush and contains dead bodies of the insects by which it was secreted. The Indians use it to cement their arrow-heads to the shafts, and for various medicinal purposes. This lac is also found on the twigs of a leguminous shrub, Acacia Greggii, growing in the arid regions of Arizona.—Bleached lac, the decolorized resin obtained by dissolving seed-lac in a boiling alkaline lye and passing chlorin gas through the liquid until the lac is precipitated.—Mexican lac, the resinous exudation from a species of Croton.—Sonora lac, the product of Carteria Mexicana, an insect infesting a leguminous shrub (Coursetia glandulosa) which grows in northwestern Mexico. The crude substance, which occurs on the twigs in the form of a brick-red incrustation, is collected by the Indians of Sonora and sold in the markets. It resembles grain-lac, but is less vividly red and has the taste of succinic acid. The natives use it in making cement and as a remedy for affections of the lungs, for fevers, and for other maladies. It consists in part of a substance similar to the shellac of commerce and yields a fine red coloring matter.

Laccadivitian (lak-a-div'i-an), a. Of or pertaining to the lacacadivis Identices.

Laccadivian (lak-a-div'i-an), a. taining to the Laccadive Islands. Of or per-

laccaic (la-kā'ik), a. [lacca + -ic.] Same as laccic. 2

laccase (lak'ās), n. [lacca + -ase.] An oxidizing ferment which is concerned in the production of the black Japanese lacquer. It is obtained from the Japanese lac-tree, Rhus vernicifera, and from various fungi.

laccate, a. II. n. The general name of salts of laccic acid.

laccic, a. 2. Noting an acid, a brownish-red compound, $C_{16}H_{12}O_8(\ref{1})$, obtained from lac-

dye by the action of dilute hydrochloric acid. It crystallizes in minute plates, decomposes without melting at about 180° C., and resembles carminic acid.

lac-cochineal (lak'koch'i-nēl), n. Same as

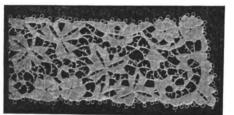
laccol (lak'ol), n. [lacca + -ol.] A compound contained in the juice of the lac-tree, Rhus vernicifera. It is probably an aromatic polybasic phenol. Under the influence of laccase it absorbs oxygen from the air and yields a black substance.

laccolite (lak'o-lit), n. Same as laccolith.

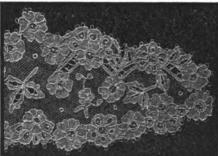
The ontogeny of the volcano may be viewed in the light of the phylogeny traced through its fossil remains—lava sheets, tuff beds, laccolites, volcanic necks like those of the Mount Taylor plateau, and other products of organic action during the ages past. Pop. Sci. Mo., July, 1902, p. 279.

tion during the ages past. Pop. Sci. Mo., July, 1902, p. 279.

1ace, n.—All-over lace, lace of any kind which is 18 or more inches in width and in which a pattern is repeated.
—Antique lace, a hand-made pillow-lace of heavy linen thread in a large, open, rectangular mesh: used mostly for curtains, bed-spreads, and draperica.—Arabe lace, a kind of coarse bobbin-lace with a large cable-edged pattern, made in Arabia and also in France and Belgium.—Arabian lace. Same as Arabe **lace.—Battenberg lace, a kind of fine linen-thread lace in which are worked rings, picots, cords, etc., with connecting bars or brides.—Binche lace, a fine pillow-lace without a raised edge, the ground of which resembles a spider-web with small dots: named after Binche, Belgium.—Bourdon lace, a machine lace of silk and cotton with scroll-like patterns cable-edged on a regular mesh.—Bretonne lace, a cheap narrow pillow-lace, used for edging, etc.—Carrickmacross lace, an Irish lace made in both guipure and appliqué.—

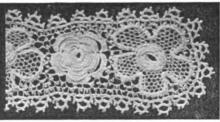


Carrickmacross Guipure Lace.



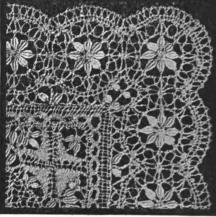
Carrickmacross Appliqué Lace.

Craponne lace, a kind of inferior, stout thread guipure lace for furniture, etc.—Cut lace. Same as punto tagliato *lace.—Escurial lace, a silk lace made in imitation of rose-point, with its patterns outlined with lustrous cord.—Fayal lace, a delicate and beautiful lace made by the peasant women of Fayal (one of the Azores) from the fibers of the American aloe, Agane americana.—Filet lace, any lace made by winding threads of silk, worsted, a coarse lace made by winding threads of silk, worsted, or cotton around a foundation of wire or twine, more or less open in design: chiefly employed in upholstery, though sometimes used for trimming wearing-apparel.—Hand-embroidered lace, point-lace embroidered with floral or fancy designs.—Irish crochet lace, an Irish linen



hand-made lace distinguished for its beauty of work-manship and design.—Luxeuil lace, a hand-made lace of Luxeuil, France; specifically, a stout, heavy fabric.—Maltese lace, (a) A hand-made lace made in the island of Malta. (b) A machine-made lace of coarse cotton thread. (c) A pillow-lace with geometric designs.—Medici lace, a variety of torchon lace, like ordinary insertion, with one edge scalloped.—Mélange lace, a heavy, black, hand-made silk pillow-lace, characterized by a blending of Spanish patterns with ordinary Chantilly effects. The edge is usually plain and straight, but is sometimes or manented with a fine silk fringe.—Net-lace, Same as punto a reticello *lace.—Normandy lace, Same as Valenciennes lace.—Nortingham lace, a bob-

bin-net lace, chiefly for curtains, originally made at Not-tingham, England.—Open lace. Same as punto in aria *lace.—Oriental lace, a kind of lace made on an em-broidering-machine in which the needle and shuttle act in combination, producing both simple and complex de-signs.—Point de Géne lace, a machine-made lace imi-tating point de Venise.—Point de neige lace, a form of lace into the border of which patterns are worked with a



Maltese Lace

flat thread or tape.—Point de Venise. Same as rose point (which see, under point!).—Punto a reticello lace, lace in which the groundwork of linen is first prepared by pulling out vertical and horizontal threads until an open network is formed. This is then filled in with patterns in various stitches. Also called net-lace.—Punto di Venezia lace, Venice point. This is essentially a punto in aria lace of great richness of design. Venice point appeared at about the beginning of the seventeenth century. The manufacture was introduced by Colbert into France and the style called French point.—Punto in aria lace, lace in which the design is first drawn on a piece of paper and the outlines laid down in coarse thread. This thread is covered with buttonhole stitch and the pattern within the outline worked out with various stitches. Also called open lace.—Punto tagliato lace, the simplest of all needle-made laces. The pattern is transferred to linen and worked out with various stitches, the linen being afterwards cut away from the finished work. Also called cut lace and point coupé.—Repoussé lace, a variety of lace in which the designs or patterns are so worked or formed as to give a cup effect.—Rococo lace, an Italian lace with rococo designs.—Seville lace, a pillow-lace resembling torchon.—Swiss lace, imitation Brussels lace made in Switzerland.—Wood-fiber lace, ar Irish needle-point lace of coarse thread, made in Munster county, Ireland.

lace-bowl (lās'bōl), n. A bowl of Oriental porcelain delicately ornamented with pierced designs of intricate lace-like pattern which are filled in with translucent glaze in the ricegrain style.

family Tingitidæ (which see). L. O. Howard, Insect Book, p. 299.—Hawthorn lace-bug, an American tingitid, Corythuca arcuata, which lives upon leaves of the hawthorn.

ace-button (las'but'n), n. The daisy-fleabane or sweet scabious, Erigeron annus. lace-flower (las flou er), n. The wild carrot,

Daucus Carota.

lace-glass (lās'glas), n. Venetian glass with lace-like designs.

lace-grass (las'gras), n. See *grass.
lace-pod (las'pod), n. See Thysonocarpus.
laceration, n. 4. In Actinozoa, the formation of a new polyp by the separation of a portion of the basal expansion by contraction of the

lacertofulvin (lā-ser'tō-ful-vin), n. [L. lacertus, lizard, + fulcus, yellow, + -in².] A yellow pigment, probably a lipochrome, found in the skin of certain reptiles.

lacery (lās'e-ri), n. [lace + -ery.] 1. Laces collectively,—2. Lace-like work or embroid-

ery.—3. An enlacement; an interlacement.

lacet (la'set), n. [lace + -et1.] In needle-work, a trimming made of a braid known as lacet braid fashioned into various designs with lace stitches.

lace-wing (las'wing), n. Same as lace-winged Au.

Lace-winged insects. See *insect.

Lace-winged insects. See *insect.
lacewood (lās'wūd), n. Same as lacebark, 3.
Lachenalia (lak-e-nā'li-ā), n. [NL. (Jacquin, 1787), named in honor of Werner de Lachenal (1736-1800), professor of botany in Basel.] A genus of bulbous plants of the family Liitacer. The leaves are few and radical, the flowers are several to many on a short scape, either drooping or erect, in color ranging from white through blue, red, and yellow; and the perianth is usually very irregular, the outer segments often sepal-like. There are about 30 species, natives of

South Africa, several of which are cultivated as cool greenhouse subjects. A form of L. tricolor is probably best known among gardeners under the horticultural name L. Nelsoni. The species of Lachenalia are sometimes called Cape coustly, and a spotted form of L. pendula is known as leopard-lily.

Lachnolasmus (lak-nō-lē'mus), n. A corrected spelling of *Lachnolaimus.

Lachnolaimus (lak-nō-lē'mus), n. [NL.] A genus of labroid fishes found in the West Indies.

Lachnolaimus (lak'num) *** [NL. | Roteins 1770]

Indies.

Lachnum (lak'num), n. [NL. (Retzius, 1779), ⟨Gr. λάχνη, down, hair, fur.] A genus of ascomycetous fungi of the family Pezicacex, having more or less hairy sessile or short- stipitate apothecia and hyaline ellipsoid or spindle-shaped spores. About 130 species have been described. They are widely distributed and occur on dead sticks and stems. lacing, n. 10. Instructural work, particularly bridge work, the system of slender, diagonal members which connect the two opposite members which connect the two opposite parallel members or flanges of a structural parallel members or nanges of a structural iron or steel beam, column, or strut. In lacing the several members form a single, continuous zigzag line, but do not cross one another as in latticing.

another as in latticeng.

lacing-bar (la'sing-bar), n. See *lattice-bar.

lacing-eye (la'sing-i), n. In marine hardware, a ring or eye of metal secured to the edge of a sail and used to retain the lacing which

holds the sail to the boom. lacing-machine (lā'sing-ma-shēn'), n. An apparatus for automatically lacing into a continuous chain the pattern-cards of

Jacquard loom.

Laciniaria (lā-sin-i-ā'ri-ā), n. [NL. (Hill, 1768), < lacinia (which see) + -aria (see -ary1), in reference to the lacerate or laciniate involucial bracts of some of the species.] Agenus volucral bracts of some of the species.] A genus of plants of the family Asteraces. There are 40 or more species, all natives of eastern and central North America. L. squarrosa and other species are called blazing-star on account of their handsome rose-colored flowers. Several species have been in popular use as medicinal plants under the names button-enakeroot, rattlesnake-master, backache-root, and colic-root. See Liatris. Laciniats. (la-sin-i-a'th), n. pl. [NL., neuter pl. of "laciniatus: see laciniate.] A suborder of Lepidoptera proposed by Packard to include only the aberrant family Eriocephalids, in which the mouth-parts differ greatly from in which the mouth-parts differ greatly from the normal lepidopterous type. The manthe normal lepidopterous type. The mandibles are fairly well developed, and the maxillæ do not form a proboscis, having each two separate rather short lobes and a long fivejointed flexible palpus.

laciniation (la-sin-i-a'shon), n. 1. The state of being laciniate.—2. A laciniate projection

or lobe

lacinule (lā-sin'ūl), n. Same as lacinula. lacinulose (lā-sin'ū-lōs), a. [lacinula + -ose.] Same as lacinulate.

lacistemaceous (las'i-stē-mā'shius), a. Belonging to or having the characters of the Lacistemacese.

lackage (lak'āj), n. [lack¹ + -age.] Shortage or deficiency in weight; lightness when com-pared with the standard of weight: said of coins.

lackent (lak'en), v. t. [lack1 + -en1.] 1. To belittle; disparage; depreciate.—2. To lack; to be without.

"It is certain," the Italian historian continues, "that the Portuguese of the fifteenth century entirely lackened knowledge of any land to the south-west." Geog. Jour. (R. G. S.), IX. 189.

lackey-caterpillar (lak'i-kat'er-pil-är), n. The larva of the lackey-moth.

The larva of the lackey-moth.

lackland (lak'land), n. and a. [lack1, v., + land1.] I. n. One who lacks land or landed possessions; one who, like a younger son, interitory: as, John Lackland, King organic compounds containing the group

II. a. Having no land. lackmoid, n. Same as lacmoid. lackmus, n. Same as lacmus.

lackmus, n. Same as lacmus.

La Couyère slates. See *slate2.

lacquer, n.— Ke-uchi lacquer, lacquer which has been allowed to stand several months to become thick. It is used for drawing fine lines in the decorations without danger of spreading.— Ki-seshime lacquer. See seshime lacquer, under lacquer.— Ki-urushi lacquer [Jap. ki, tree, + urushi, lacquer], crude lacquer, the sap of the Rhus vernicifera of Japan.— Kuma-urushi lacquer [Jap. kuma, border, + urushi, lacquer], lacquer colored with lampblack, used for drawing fine lines in the shading of feathers, hair, etc., on gold lacquer.— Muranashiji lacquer [Jap. mura, clustered, + nashi, a pear], a variety of Japanese lacquer with small gold fakes in irregular clusters. See nashiji **slacquer.— Nakanuri lacquer [Jap. naka, middle, + nuri, lacquer, varnish],

a pure lacquer freed from water, exposed to the light, and stirred till it becomes black: used as a basis, or undercoating, on which the finishing lacquer is afterward placed.—Nashiji lacquer [Jap. nashi, a pear], a variety of Japanese lacquer sprinkled with gold, in initation of the skin of a pear. Also called aventurin lacquer.—Nuritate lacquer [Jap. nuri, lacquer, tate, stir], a pure lacquer to which has been added water which had been used with a whetstone and contains fine particles of the stone in suspension: used on cheap ware.—Roiro [lacquer [Jap. ro:ro, greenish black], a variety of Japanese lacquer of a pure black or greenish-black color.—Ro-urushi lacquer [Jap. ro. dark green, + urushi, lacquer], a dark-green varnish made by adding to branchlacquer a small proportion of tooth-dye, which is prepared by boiling rice-vinegar in which iron filings have been placed, and by afterward exposing it to the rays of the lasun for several days.—Shunkei lacquer [Jap. Shun-Kei, name of the inventor], a variety of Japanese lacquer produced by mixing oll with the sap of the lacquer tree (Rhus vernici/era). It is of a yellowish color and needs no polishing. When applied to furniture, being transparent, it shows the natural grain of the wood beneath.—Shunuri lacquer [Jap. shu, vermilion, + nuri, varnish], a Japanese lacquer of a pure red color: same as cord or vermilion lacquer (which see, under coral).—Shunurish lacquer [Jap. shu, vermilion, red. + urushi, lacquer], a red lacquer which requires no final polishing. See shunuri *klacquer.—Su-chau lacquer [mamed from a city in China], a red cinnabar lacquer with carved decoration, made in China.—Tsugaru lacquer [Jap. ray yeda, branch], varnish obtained from the branches of the lacquer, under lacquer.—Yeda-urushi lacquer, under lacquer.

See Tsui-shu lacquer, under lacquer.—Yeda-urushi lacquer, under lacquer.

acrymal. I. a.—Lacrymal bay, the recess at the internal angle of the eye.—Lacrymal groove. See *groove.—Lacrymal passages, all the parts traversed by the tears from the lacrymal gland to the opening of the duct in each nasal fossa. lacrymal.

duct in each nasal fossa.

II. n. 4. In ichth.: (a) A bone lateral to the ethmoid in fishes, the prefrontal: not homologous with the bone called 'lacrymal' by Parker. Starks, Synonymy of the Fish Skeleton, p. 509. (b) A bone in front of the eye in fishes, part of the suborbital ring; the preorbital: not homologous with the bone called 'lacrymal' by Geoffroy. Starks, Synonymy of the Fish Skeleton, p. 520.

lacrymist, lachrymist (lak'ri-mist), n. [L. lacryma, tear, + -ist.] One who weeps easily

or constantly.

or constantly.

lacrymomalar, lachrymomalar (lak'ri-mō-mā'lār), a. Relating to the lacrymal and malar bones: as, the lacrymomalar articulation.

Proc. Zool. Soc. London, 1901, I. 139.

Lacrymonasal pillar or process, a slender splint of bone projecting forward and downward from the lacrymal into the nasal vacuity in the skull of the Rhea.—Lacrymonasal vacuity. See *vacuity.

lacrymosal, lachrymosal (lak-ri-mō'sal), a. Same as lacrymose.

lacrymosity, lachrymosity (lak-ri-mos'i-ti), n. [lacrymose + -ity.] The condition of tearfulness; the quality of causing tears.

lacrymous, lachrymous (lak'ri-mus), Same as lacrymose.

lac sulphuris (lak sul'fū-ris). [NL., 'milk of sulphur.'] In chem., an old name for sulphur precipitated at common temperature by an acid from the solution in water of an alka-line or calcic sulphid: a white, not yellow, powder.

lactalbumin (lak-tal-bū'min), n. [L. lac(lact-), milk, + E. albumin.] An albuminous substance resembling serum albumin which is

HNCH2CH2CH2CO

or HNCH₂CH₂CH₂CH₂CO.
They are formed by the elimination of water from γ - or δ -amino acids respectively, the reaction being characteristic of these two classes of compounds. They are simple cyclicacid amides.

lactamic (lak-tam'ik), a. [lactam + -ic.] Noting an acid, a-aminopropionic acid, CH₃.-CHNH₂.COOH, or alanin.

Lactaria (lak-tā'ri-\text{\text{i}}), n. [NL. (Persoon, 1797), \(
\text{fem. of L. } \text{lactarius}, \text{milky}: \text{see } \text{lactary}.] A \(
\text{genus of fungi of the family } \text{Agaricace}\tilde{\text{e}}. \text{ They } \\
\text{have the hymenophore continuous with the stem, and the } \\
\text{plleus usually depressed at the center.} \text{ When broken the} \(
\text{the hymenophore} \text{the center.} \text{ When broken the} \)

gills and flesh exude a variously colored milky juice, whence the name. The species are numerous and some are edible. Also written Lactarius.

lactaric (lak-tar'ik), a. [Lactar(ius) + -ic.]

Noting an acid, a colorless compound, C₁₅-H₃₀O₂, contained in the mushroom Lactarius piperatus. It crystallizes in small needles and melts at 69.5-70° C.

meits at 59.5-70° C.

lactarium (lak-tā'ri-um), n.; pl. Lactaria (-ṣ).

[NL., neut. of L. lactarius, a.] Same as lactary.

lactase (lak'tās), n. [L. lac (lact.), milk, +
-ase.] A ferment which inverts lactose to

dextrose and galactose.

lactatic (lak-tat'ik), a. and n. [lactate + -ic.]

I. a. Promoting the secretion of milk in the

breast.

II. n. A galactagogue.

lactational (lak-tā'shon-al), a. [lactation +
-al¹.] Relating to the period of lactation.

Med. Record, Feb. 28, 1903, p. 337.

lactescency (lak-tes'en-si), n. Same as lac-

lactification (lak-ti-fi-kā'shon), n. [L. lac (lact-), milk, + -ficatio(n-), \(\lambda - ficare, \) facere, make.] The production of lactic acid in milk and other fluids by the lactic-acid bacteria. lactifluous (lak-tif'l\(\bar{0}\)-us), a. [L. lac (lact-), milk, + finere, flow, + -ous.] Yielding a thick milky juice; flowing with milk. lactiformt (lak'ti-f\(\bar{0}\)-m), a. [L. lac (lact-), milk, + forma, form.] Like milk. lactigenous (lak-tif'e-nus), a. [L. lac (lact-), milk, + -genus, -producing.] Having the properties of a galactagogue. lactim (lak'tim), n. [lact(am) + -im.] The name of a class of organic compounds containing the group -C(OH):N-. It is a tautomeric and, occasionally, isomeric form of the lactam radical. lactimide (lak-ti'mid), n. [lact-ic + imide.]

lactimide (lak-ti'mid), n. [lact-ic + imide.]
A colorless neutral compound, CH₈CH- $\langle {\rm CO-NH} \rangle {\rm CHCH_3}$, prepared by heating α -ami-

nopropionic acid in a current of hydrochloric-acid gas. It crystallizes in needles or plates, melts at 275° C., and sublimes.

lactite (lak'tīt), n. [L. lac (lact-), milk, + -ite².] The trade-name of a substitute for bone or celluloid, prepared by gelatinizing casein with borax solution and treating the product with acetic acid and lead acetate and drywith acetic acid and lead acetate and dry-

with acetta and and acetate and drying it under pressure.

lactivorous (lak-tiv'ō-rus), a. [L. lac (lact-), milk, + vorare, feed upon.] Feeding on milk.

lactoalbumin (lak'tō-al-bū'min), n. Same as *lactalbumin.

*lactalbumin.

lactobutyrometer, n.—Marchand's lactobutyrometer, an instrument for determining the quantity of butter fat in milk. It depends upon the solubility of the fat in ether and the formation of a layer of liquid fat at 40° C. when the ether is shaken with alcohol of 86-90 per cent. The volume of the layer of fat is measured by a scale, and the percentage of the same in the milk is obtained by a simple calculation.

lactocaramel (lak-tō-kar'a-mel), n. [lact-ic+caramel.] Caramelized lactose.

lactocholine (lak-tō-kol'in), n. [lact-ic+choline.] A compound of choline and ethylidene lactic acid.

lactochrome (lak'tō-krōm), n. [L. lac (lact-),

powder.

lactacidine (lak-tas'i-din), n. [lact-ic + acid]
+ -ine².] The trade-name for a mixture of lactic and salicylic acids used as a food-preservative.

lactagogue (lak' ta-gog), n. [L. lac (lact-), milk, + Gr. ἀγωγός, ⟨ ἀγων, lead.] Same as an lactagogue.

dene lactic acid.

lactochrome (lak'tō-krôm), n. [L. lac (lact-), milk, + Gr. χρῶμα, color.] In chem., a name given by Blyth to a nitrogenous substance of an orange color, obtained in very small quantity from the whey of milk after casein and albumin had been removed, and believed by him to be the source of the yellow color by him to be the source of the yellow color of milk and of butter.

lactoglobulin (lak-tō-glob'ū-lin), n. [L. lac (lact-), milk, + E. globulin.] A globulin (lact-), milk, found in milk.

class of lactol (lak'tol), n. [lact-ic + -ol.] A colorless, tasteless compound, the lactic-acid ester of β -naphthol: an intestinal antiseptic.

lactolase (lak'tō-lās), n. [lactol + -ase.] A ferment of vegetable origin which supposedly causes the formation of lactic acid during anaërobic fermentation.

lactometric (lak-tō-met'rik), a. Of or pertaining to a lactometer or to the measurements and tests of a lactometer. Sadtler, Handbook of Indust. Chem., p. 265.

lactonic (lak-ton'ik), a. [lactone + -ic.] Pertaining to a lactone.—Lactonic acid. Same as

lactopepsin (lak-tō-pep'sin), n. [lacto(se) + pepsin.] A solution containing various digestive ferments and lactose: a commercial preparation.

Same as *lactophenine.
lactophenine (lak-tō-fen'in), n. [lactophen + -ine².] A colorless crystalline compound,

Lactoridaces (lak'tō-ri-dā'sō-ō), n. pl. [NL. (Engler, 1887), < Lactoris (Lactorid-) + -aces.]
A family of dicotyledonous archichlamydeous plants of the order Ranales, containing the single monotypic genus *Lactoris (which see). lactoridaceous (lak*tō-ri-dā'shius), a. Belonging to the plant-family Lactoridaceæ.

longing to the plant-family Lactoridaceæ.

Lactoris (lak-tō'ris), n. [NL. (Philippi, 1865), \(L. lactoris, the Latin name of some unidentified plant.] A genus of plants constituting the family Lactoridaceæ. It consists of a single species, L. Fernandeziana, from the island of Juan Fernandez, a low, diffusely branching shrub with smooth, obovate, entire, stipulate leaves, the short-pedicelled, inconspicuous flowers borne singly in the axils of the leaves or in small leafy axillary racemes. The perianth segments are three, calyx-like; the stamens six, in two series; the carpels three, only slightly united with each other. lactosazone (lak-tōs-az'on), n. [lact(ose) + azo- +-one.] A yellow compound, C₂₄H₃₂O₉ N₄, prepared by the action of phenylhydrazine on lactose. It crystallizes in needles and melts as 200° C. Also called lactose-osazone. lactoscope, n.—Feser's lactoscope, an apparatus

lactoscope, n.—Feser's lactoscope, an apparatus for determining the quality of milk. A known volume of milk is diluted with a measured volume of water until the graduations on a central white staff become visible. The extent of dilution determines the value of the milk. lactose-osazone (lak'tōs-ōs-az'ōn), n. Same *lactosazone

lactoserum (lak-tō-sē'rum), n.; pl. lactosera (-rā). [L. lac (lact-), milk, + NL. serum.] A serum, obtained by immunization with milk, which contains precipitins (coagulins) corresponding to all the albumins of the milk and some related albumins of the body of the

animal.

lactosin (lak'tō-sin), n. [lactose + -in².] A colorless, dextrorotatory, non-reducing compound, C₃₆H₆₂O₃₁.H₂O, found in the root of Silenaceæ. It forms small lustrous crystals which give off water at 110° C.

lactothermometer (lak'tō-ther-mom'e-ter), n.

[L. lac (lact-), milk, + E. thermometer.] A small thermometer inclosed in a glass tube and used in testing milk.

and used in testing milk.

lactotoxin (lak-tō-tok'sin), n. [L. lac (lact-), milk, + Gr. $\tau o \xi(\kappa \delta \nu)$, poison, + $-in^2$.] A ptomaine found in milk: supposedly the same

ptomaine found in milk: supposedly the same as the tyrotoxicon of cheese.

lactoviscometer (lak" tō-vis-kom'e-ter), n.

[L. lac (lact-), milk, + viscus, viscus, + metrum, measure.] An instrument for indicating the quality and composition of milk by its rate of flow through a capillary tube. Sci. Amer. Sup., Nov. 7, 1903, p. 23285.

lactucerin (lak-tū'se-rin), n. [L. lactuca, lettuce, + -er + -in²] 1. The dried milky juice of the European lettuce, Lactuca virosa. It consists of a mixture of a- and β-lactucerous.

juice of the European lettuce, Lactuca virosa. It consists of a mixture of a- and β-lactucerol acetates and has the formula C₂₀H₃₂O₂.—2. A colorless dextrorotatory compound, C₂₈H₄₄O₂ (†), contained in the juice of the European lettuce. It crystallizes in microscopic needles and melts at 210° C. Also called lactucer. called lactucon.

called lactucon.

lactucerol (lak-tū'se-rol), n. [lactucer-in + -ol.] A bitter, colorless, dextrorotatory compound, (C₁₈H₃₀O.H₂O)₂, obtained from the dried juice of the European lettuce, Lactuca virosa. It exists in two modifications termed a- and b-lactucerol. The former crystallizes in long, sliky, lustrous needles, melts at 166-181°C., and may be distilled in an atmosphere of carbon dioxid; the latter crystallizes from ether in long needles with a silvery luster, from alcohol as a gelatinous mass.

Lactucic acid. (a) A bitter, acrid, brownish-green, amorphous compound obtained from the juice of Lactuca Canadensis. (b) A light-yellow crystalline compound, ladiaday, spelled lardy-dardy; syllables sug-ladiaday, spelled lardy-dardy; syllables sug-

lactophen (lak'tō-fen), n. [lact(ic) + phen(yl).] $C_{40}H_{58}O_{11}$ (?), formed by the action of dilute sulphuric acid on lactouarium. It gives a wine-red color with

-ine².] A colorless crystalline compound, -ine².] A colorless compound, C₄₀H₄₈U₁₃ or C₂H₅OC₆H₄NHCOCHOHCH₃, used in medicine as a febrifuge and soporific.

Lactophrys (lak'tō-fris), n. [NL., <*lact(oria), a milk-cow (< L. lac(lact-), milk), + Gr. δφρίς, eyebrow. The allusion is to the projecting horns of L. tricornis.] A subgenus of fishes of the family Ostracidæ, most of them found in American waters.

Lactopicrin (lak-tō-pik'rin), n. [L. lact(uca), lettuce, + E. picrin.] An amorphous, bitter substance, one of the active principles of Canadian lettuce, Lactuca Canadensis.

Lactoproteid (lak-tō-prō'tō-id), n. [lact-ic+proteid] Any one of the albumins which occur in milk.

Lactoprotein (lak-tō-prō'tō-in), n. Same as bitter principle, not well known, said to be contained in lactucarium.

Lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen (lak-tū'men), n. [NL., < L. lactumen lactucin (lak-tū'sin), n. [L. lactuca, lettuce, the cutoff of the common lettuce, L_{actuca} and L_{actuca}

contained in lactucarium.

lactumen (lak-tū'men), n. [NL., < L. lac (lact.), milk.] Same as milk-blotch.

lacturamic (lak-tū-ram'ik), a. [lact-ic + ur-ea + am(ine) + -ic.] Derived from lactic acid and urea.—Lacturamic acid, a colorless compound, NH₂CONHCH(CH₃)COOH, prepared by boiling lactyl urea with barium-hydroxid solution; urein-2-propanoic acid. It crystallizes in small rhombic prisms and melts at 155°C.

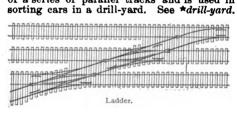
lactyl (lak'til), n. [L. lac (lact.), milk +

lactyl (lak'til), n. [L. lac (lact-), milk, + -yl.] A lactic-acid radical: as, lactyl chlorid,

-yl.] A lactic-acid radical: as, lactyl chlorid, CH₃.CHCl.CO.Cl. lacunary, a. 2. Consisting of lacunes, as, for the most part, the circulatory system in Mol-

lacuscular (lā-kus'kū-lār), a. [L. lacusculus, ladronism (la-drōn'izm), n. [ladrone + -ism.] a small lake (dim. of lacus, lake, pool), + The character or conduct of a ladrone or rob-ar3.] Relating to or inhabiting small pools. ber. See extract under *ladrone, 2.

ladder, n. 3. A series of buckets for dredging and filling which are carried up and down an incline; a bucket-conveyer.—4. In railroads, a track which connects by switches the ends of a series of parallel tracks and is used in sorting cars in a drill-yard. See *drill-yard.



—Adjustable ladder, a ladder used in gymnasiums for exercising, so swung on supports that it may be placed in an upright, horizontal, or slanting position, and may hang against the wall when not in use.—Indian ladder, a ladder having a single pole with steps or footholds on the sides; a tree-ladder: so called because, as used by the Indians of the southwestern United States, it is formed from a tree-stem by lopping off the branches a few inches from the stem. A firemen's scaling-ladder is essentially an Indian or tree-ladder. See ladder, 1.—Pneumatic extension ladder. Same as aerial *truck.—Rope ladder. See ropel, n.—Telescopic aerial ladder. Same as aerial *truck.]

ladder-back (lad'ér-bak), n. A chair-back which is made of horizontal slats passing from one side to the other.

ladder-beetle (lad'ér-bē'tl), n. An American chrysomelid beetle, Calligrapha scalaris, which feeds on elm, alder, and willow. It is yellowish-white in color, with ladder-shaped dark markings. Also linden leaf-beetle.

ladder-cell (ladder-sel), n. A scalariform cell.

See scalariform, 1 (b), and scalariform vessels, under *scalariform*

under scalariform.
ladder-hook (lad'ér-huk), n. A double hook, with a set-screw, used to hold a ladder in place on a roof or against a building.
laddering (lad'ér-ing), n. [ladder + -ing¹.] A narrow insertion of lace or muslin used in dressmaking, consisting of alternate bars and open spaces, somewhat resembling a ladder. Ribbons may be run in and out through these for ornament. Also called beading.

for ornament. Also called beading. ladder-point (lad'er-point), n. A kind of stitch resembling ladder-stitch.

gestive of a languid or mincing speech or manner.] I. a. Languidly genteel in speech or manner; foppishly affected.

II. n. A languidly genteel person; an effected fop or 'swell.' [Colloq.]

la-di-da (lä-di-dä'), v. i. [Also extended lardy-dardy; 'la-di-da, a.] To act in a languidly genteel manner; pose as a 'swell.'

I like to la-di-da with the ladies,
For that is the style that suita
The noble name and glorious fame
Of Captain de Wellington Boots.

Stirling Coyne, The Widow Hunt, quoted in N. & Q., 9th
[ser., VIII. 19.]

Ladinian stage. See *stage.

Ladinian stage. See *stage.
ladle, n. 5. A burghal duty charged on grain, meal, and flour brought to market for sale; the proceeds obtained from that duty: from the proceeds obtained from that duty: from the dish or vessel used to measure the grain or meal. Jamieson, Scottish Diet., Sup. [Scotch.]

—Bafety-ladle, a foundry-ladle which is tipped by means of a worm, thus facilitating the steady and safe pouring of the metal. Only large ladles are thus equipped.

ladling (lā'dling), n. Same as lading, n., 3.

ladling-hole (lā'dling-hōl), n. Same as lading-hole

Lad'p. A contraction of Ladyship. ladrone, n. 2. In the Philippine Islands, among 'American soldiers, a hostile Filipino' soldier or 'insurgent.'

Thus we not only get ladrone as a substitute for "insurgent," which in turn is a substitute for "the enemy," or "the Filipho forces," but "ladronism" appears in the news dispatches as a harmless equivalent for resistance to an armed invader.

Springfield Republican, quoted in N. Y. Evening Post, [April 4, 1903.

Ladronism reached its maximum early last spring, when a dozen provinces, some of them near Manila, were infested with them... At present there are scarcely any ladrones left, only a few in Albay Province, in southern Luzon, where they have not been pursued with as much vigor as elsewhere, but recent advices indicate that the constabulary have since destroyed their bands.

Nat. Geog. Mag., March, 1904, p. 111.

ady, n. 10. In astrol., a term designating the planet Venus when in the circumstances under which, if a masculine planet, she would be termed lord: as, lady of the ascendant.—Lady altar, the altar in a Lady chapel dedicated to the Virgin Mary.—Lady in watting, a lady who is in attendance upon a queen. See maid of honor(a).—Lady's cloth. See *cloth.—Lady's friend. See *friend.—Lady's looking-glass. Same as Venus's looking-glass (which see under Venus). 10. In astrol., a term designating the

ladybird, n.—Ashy-gray ladybird, a coccinellid beetle, Cycloneda abdominalis, of ashy-gray color, ornamented with seven black spots on the thorax and eight on each wing-cover. It is often found in abundance upon orange-trees, where its larve prey upon plant-lice and young scale-insects.—Bean ladybird. Same as *besabeetle (which see).—Blood-red ladybird, an American coccinellid beetle, Cycloneda sanguinea, with blood-red elytra and a black thorax spotted with orange.—Boreal ladybird, an American coccinellid beetle, Epilackas borealis, of phytophagous habits. It feeds upon the leaves of cucumber, melon, and other cucurbitaceous plants.—Cactus ladybird, an American coccinellid beetle, Epilackas of Cactus ladybird, an American coccinellid beetle, Chilocorus cacti, occurring commonly in the southwestern United States, where it feeds on scale-insects.—Comely



Cactus Ladybird (Chilocorus cacti). a, beetle; b, pupa; c, larva. Enlarged.

ladybird, an American coccinellid beetle, Coccinella venusta, pink in color and marked with 10 large black spots.—Convergent ladybird, an American coccinellid beetle, Hippodamia convergent, of wide distribution; a







Convergent Ladybird (Hippodamia convergens). a, adult; b, pupa; c, larva: all enlarged. (Chittenden, U. S. D. A.)

noted enemy of injurious plant-lice.—Eyed ladybird, an American coccinellid beetle, Cycloneda oculata, occurring in the Southern States, California, and Mexico.—Five-spotted ladybird, an American coccinellid beetle, Coccinella quinquenotata.—Herbivorous ladybird, any species of the coccinella genus Epilachna, all of which in both larval and adult stages, are phytophagous and not carnivorous; specifically, in the eastern United States, the

black spots.—Painted ladybird,
Harmonia picta, straw-yellow
marked with black.—Plain ladybird, Cycloneda sanguinea, light
red without elytral markings.—
Squash ladybird, Epilachna borealis, a phytophagous species whose
larvæ feed on the leaves of squash
and other cucurbits.—Thirteenspotted ladybird, Hippodamia
tredecimpunctata, brick-red with
13 black spots.—Twice-stabbed
ladybird, Chilocorus bivulnerus,
black with two red spots.—Twospotted ladybird, Adalia bipunctata, red with one black spot on
each wing-cover.

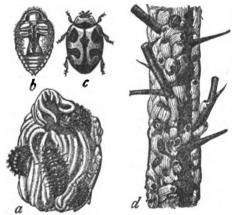


Nine-spotted Ladybird



Two-spotted Ladybird (Adalia bisunctata). a, larva; δ , pupa; c, adult; d, antenna of same: all enlarged. (Marlatt, U. S. D. A.)

ladybug, n.—Australian ladybug, specifically, in California, Vedalia (Novius) cardinalis, an Australian



Australian Ladybug (Vedalia (Novius) cardin a, ladybug larvæ feeding on female and egg-sac of fluted scale; b, pupa; c, ladybug; d, orange twigs showing scale and ladybugs: a, b, c, enlarged; d, natural size.

(Marlatt, U. S. D. A.)

coccinellid beetle brought by the United States Department of Agriculture to kill off the white or fluted scale (Icerya purchasi). See *Icerya, with cut.

lady-by-the-gate (lā'di-bī-The-gāt'), n. The soapwort or bouncing-bet, Saponaria offici-

morous.]

"A judge of mermaids, he will find
Our ladyfish of every kind
Inspection will repay."
W. S. Gilbert, 'Bab Ballads,' Captain and the Mermaids.
ladyish (lā'di-ish), a. Somewhat like a lady;
having the airs of a fashionable lady. N. E. D. ladyism (lā'di-izm), n. The condition and manners of an affected "fine lady." N. E. D. ladykind (la'di-kind), n. The women of a

family or party. Compare womankind. Scott. lady-laurel (lā'di-lā'rel), n. See *laurel. Lady-mass (lā'di-mas), n. A mass said specifically in honor of the Virgin Mary. lady-pea (lā'di-pē), n. See *pea¹. Lady-quarter (lā'di-kwār'ter), n. In England, the quarter of the year in which Lady-day-mass.

day occurs. lady's-laces (lā'diz-lā'sez), n. The ribbon-

grass, Phalaris arundinacea. Also called bride's-laces. lady's-lint (la'diz-lint), n. The greater stitch-

wort, Alsine Holostea.
lady's-milk (lā'diz-milk), n. The milk-thistle,
Mariana Mariana. Also called Virgin Mary's

lady's-needlework (lā'diz -nē'dl - wèrk), n. The hedge-parsley, Torilis Anthriscus.

squash **ladybird (which see).—Nine-spotted lady-bird, Coccinella novemnotata, a brick-red species with 9 black spots.—Painted ladybird, Harmonia picta, straw-yellow ladybird, lady's-naintbrush (la'diz-pānt'brush) n. See

lady's-pocket (la'diz-pok'et), n. The spotted touch-me-not, Impatiens biflora: so called from the saccate sepal of the flower.

lady's-purse (la'diz-pers), n. The shepherd's-

lady s-purse (la diz-pers), n. The shepherd s-purse, Bursa Bursa-pastoris. lady's-shoes-and-stockings (lā'diz-shöz'and-stok'ingz), n. The bird's-foot trefoil, Lotus corniculatus. Also called shoes-and-stockings.

corniculatus. Also called shoes-and-stockings. lady's-thimble (lā'diz-thim'bl), n. The harebell or bluebell, Campanula rotundifolia. The name is also applied to the foxglove.

Laekenian sands. See *sand¹.

Læliorchis (lē-li-ôr'kis), n. [NL. (Wight, 1905), ⟨ Lælia, an untenable name for the genus, + Orchis.] A genus of monocotyledorous plants of the family Orchidaean. See nous plants of the family Orchidacese. Lælia

Læmoparalysis (lē'mō-pa-ral'i-sis), n. [NL, ⟨ Gr. λαμός, throat, + παράλνσις, paralysis.]
 Paralysis of the pharynx or esophagus.
 læmoscirrhus (lē-mō-sir'us), n. [NL, ⟨ Gr. λαμός, throat, + σκίρρος, a tumor.]
 Cancer of the critical control
the gullet.

læmostenosis (lē'mō-stē-nō'sis), n. [NL., Gr. λαιμός, throat, + στένωσις, narrowing.] Temporary or permanent constriction of the esophagus.

Laënnec's cirrhosis. See *cirrhosis.

lactropism (le-ot'rō-pizm), n. [læotrop-ic + -ism.] The state of being lectropic. læsic enormis (lē'sio ē-nôr'mis). [L., 'excessive injury.'] In civil law, the injury sustained by one party to a contract who has suffered a loss of more than one half the value of the contract by reason of the fraud or overgraphing conduct of the other rest.

of the contract by reason of the fraud or over-reaching conduct of the other party.

Læstadia (lē-stā'di-ā), n. [NL., named for Lars Levi Læstadius, a clergyman and botanist of Lapland.] An untenable generic name for Guignardia, still much used.

lætic (lē'tik), a. [LL. læticus, < lætus, a foreign bondman, appar. from the OTeut. term repre-sented by AS. læt, in a similar sense.] Per-taining to the læti, foreign cultivators of the soil during the later Roman Empire, who paid tribute for their land.

tribute for their land. lætificant, a. See *letificant.
Lafayette group. See *group1.

lag¹, n. 6. A term of hard labor or transportation. [Australia.]—7. In elect. the distation. [Australia.]—7. In elect., the displacement of phase of an electric wave back, or behind (in time), to another electric wave: used mainly with regard to alternating-current circuits.—8. See lagging of the tides, under circuits.—8. See lagging of the tides, under lagging.—Angle of lag. (a) In elect., the angular displacement by which an alternating current follows the electromotive force. This lag occurs in alternating-current electrical circuits when there is inductance at any point in the line. (b) The angle corresponding to the lag of the tides; the hour-angle between the lunar transit and the fiood-tide; the shifting of the earth's magnetic system from a symmetrical distribution about the noon meridian into the observed eccentric position—Lag of brushes, in elect, the backward shift of brushes on the commutator of an electric machine.—Magnetic lag. See magnetic *hysteresis. natis.

lady-crab, n. 2. (a) See crab¹, 1. (b) In the Channel Islands, Portunus puber.

ladyfish, n. 4. A trachinoid fish, Sillago domina, found in the Bay of Bengal and generally throughout the East Indian archipelago.

—5. The ten-pounder.—6. A mermaid. [Humar transit and the flood-tide; the shifting of the earth's magnetic system from a symmetrical distribution about the noon meridian into the observed eccentric position.—Lag of brushes, in elect., the backward shift of brushes on the commutator of an electric machine.—Magnetic lag. See magnetic *hysteresis.

lag-angle (lag ang'gl), n. See angle of *lag.

Laganids (la-gan'i-dē), n. pl. [NL., < Laganum + -idæ.] A family of irregular echinoids, of the order Gnathostomata, typified by the genus Laganum.

Laganium (la-gā'ni-um), n. Same as *Laga-

Haganum (lag'a-num), n. [NL. (Gray, 1855), ⟨Gr. λάγανον, a broad cake of meal and oil.]
The typical and only genus of the family
Laganidæ. Also Laganium.
lagarto, n. 2. A common name of two differ-

ent fishes belonging to the family Synodontidæ, both of the Atlantic.

lag-barrel (lag'bar'el), n. An octagonal Darrel, or bar, having an intermittent rotary motion for the pattern-chain of a dobby-loom.

lag-bolt (lag'bolt), n. Same as lag-screw, 1 lairage (lar'āj), n. Space where cattle may lie down and rest. N. E. D. lag-barrel (lag'bar'el), n. An octagonal barrel,

laggardism (lag'ard-izm), n. [laggard + -ism.] Sluggishness; the characteristic of hanging back; lagging.

back; lagging.

laggardly (lag'ard-li), adv. Loiteringly; lazily; sluggishly.

laggerl, n. 2. Same as lagl, n., 5.

laggers (lag'er), n. A sailor.

lagging, n. 4. (b) A covering for the face of a pulley, designed to increase its effective disputers or to suggest the adhesion of the diameter or to augment the adhesion of the

belt.—5. Same as *lag¹, n., 7.—6. Naut., the part of a barrel-stave beyond the head. Also spelled laggin.

lag-last (lag'last), n. and a. I. n. One who hangs back; a loiterer; one who falls behind.

II. a. Lingering; hanging back; lagging.
lagna (läg'nä), n. [Skt. lagna, Hind. lagan,

lagna (läg'nä), n. [Skt. lagna, Hind. lagan, point of intersection, point where the sun and the planets rise, pp. of √lag, adhere to, pierce, touch, etc.] The point on the ecliptic which is rising at any given moment. Geog. Jour. (R. G. S.), XVI. 703.
 Lagoa, n. 2. [l. c.] A moth of this genus. — Waved lagoa, an American megalopygid moth, Lagoa crispata, yellowish in color, with wavy lines running from near the base to the tips of the winga. Its larrated on the plum, apple, blackberry, and other trees and planta.

agochila (lag-ō̞-kī'l̪ĕ̞), n. [NL., hare, + $\chi \epsilon i \lambda o \epsilon$, lip.] A genus of fishes belonging to the family Catostomidæ, the suckers,

lagomorph (lag'o-môrt), n. Any member of the Lagomorpha, a superfamily of rodents containing the hares and pikas.

No sufficiently primitive stages of the teeth of either the Histricomorphs or the Lagomorphs have to my knowledge as yet been found. Amer. Jour. Sci., Nov. 1903, p. 367. lagomorphous (lag-ō-môr'fus), a. Of or pertaining to the Lagomorpha: same as lagomorphic.

lagophthalmyt (lag-of-thal'mi), n. Same as lagophthalmia.

lagopous (la-gō'pus), a. [Gr. λαγώπους, harefooted ($\langle \lambda a \gamma \omega_c \rangle$, hare, $+ \pi o i \varepsilon$, foot), + -o u s.] In bot,, soft and hairy like a hare's foot. Lagrange beds. See Lafayetts $+ g \sigma o u p$.— Lagrange disk. Same as interfusion + d i s k.— Lagrange's mapprojection. See map-projection, under projection.

lag-ship (lag'ship), n. A transport used for taking convicts to New South Wales, or one used as a prison. [Cant, Eng.]
lag-spike (lag'spik), n. A form of spike in which the part that enters the wood has a thread

like that of a wood-screw or lag-screw: used for holding railway-rails to the ties or other substructure. The spike may be driven into the wood by a maul or sledge, but it can be taken out only by unscrewing. The thread has a ratchet-tooth section, with the long alope on the advancing side, and the straight radial helix opposed to motion toward the end where the head is. Also called screw lag-spike.

laguana (lä-gwä-nä'), n. [Sp. la guandbana, the sour-sop (the fruit), \(\) quandbano, the sour-sop tree, of Carib origin.] In Guam, the sour-sop, Anona muricata. See Anona.

lag-wood (lag'wud), n. In ship-building, the wood obtained from large branches of the oak near the head of the tree.

L. A. H. An abbreviation of Licentiate of the

Apothecaries' Hall.

laid, p. a. 3. In embroidery, stitched upon a ground. Gold and silver thread, and silk cords, are frequently treated in this way.

cords, are frequently treated in this way.

On the satin Stuart bindings we find a prevailing use of fine coloured floss silks, . . . and in later times an extensive use of 'laid' silver thread backgrounds, metal cords, wires and metal threads of numberless patterns.

C. Davenport, in Burlington Mag., March, 1904, p. 268.

Laid and set, in plastering, finished ready for painting or papering: said of plaster-work on lath as distinguished from that done on solid masonry.—Laid down, an expression used with reference to British warvessels in connection with the date of placing the first keel-plates on the blocks: as, the battleship was laid down June 10th, 1905.

See **Echale2**

Laille shales. See *shale2.

laiose (li'ōs), n. [Gr. λαιός, left, + -ose.] Same as Leo's *sugar.

lair¹ (lār), v. [lair¹, n.] I. trans. 1. To put or have put in a lair or den.—2. To shelter; hold as in a lair.

To dwellers round its bases but a heap
Of barren obstacle that lairs the storm
And the avalanche's silent bolt holds back
Leashed with a hair.

Lowell, The Cathedral, p. 62.

laissez-aller (lā-sā-zā-lā'), n. [F., impv. of laisser, let; aller, go.] A letting go; unrestraint: implying sometimes a little too much [F., impv. of unconventionality. Also laisser-aller.

laitance (lā-tons'), n. [F., \(\text{lait}, \text{milk.} \)] The milky washings from the surface of concrete which has recently been laid under water.

lake¹, n.— Capillary lake. See *capillary.— Glacial lake, a lake formed by the damming of the natural drainage of a region by a glacier, which thus hinders the dis-

charge of the water.—**Earst lake.** See *karst.—**Lake** country, a country abounding in lakes; specifically, a district in England comprising parts of Lancashire, Cumberland, and Westmoreland. See Lake School. Ox-bow lake, a crescentic or nearly circular lake, occupying a meander that has been deserted by the river that formed it.—**Relict lake**, a lake remaining on a land-surface from which the sea has withdrawn.—**Soda lake**, a saline lake in which the salinity is due to sodium carbonate.—**Walled lake**, a lake provided with a wall of gravel and boulders which nearly or quite encircles it and which is heaped up at the upper edge of the strand by the expansion of the lee when freezing in the winter. Walled lakes are not uncommon in Wisconsin and Minnesota. **lake**³, n.—Carmine lake. See *carmine. **lake**³ (lāk), v. [lake³, n.] I. intrans. To become laky, or like a lake (pigment) in color. See *laky².

In a case of leuksemia, laking was almost complete in a Gratifule to the lama.

Gratifule to the lama.

Gratifule to the lama.

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Gratifule to the lama.

In a case of leuksemia, laking was almost complete in a short time.

Med. Record, June 13, 1903, p. 953.

To cause to resemble a lake TT trans (pigment) in color; specifically, discharge (the hemoglobin) rapidly from the erythrocytes into the blood-plasma.

For the preparation of hæmoglobin the blood was collected in ammonium oxalate, washed, laked with distilled water, centrifugalized to get rid of the stroma, treated with 25 per cent. absolute alcohol, upon the addition of which the crystals of oxyhæmoglobin are deposited at 0° Centigrade.

Science, March 6, 1903, p. 369.

lake-basin (lāk'bā'sn), n. 1. The area occu-

pied by a lake.—2. The area from which the waters of a lake are collected.

lake-bass (lāk'bàs), n. The large-mouthed black-bass, Micropterus salmoides.—White lake-bass, Roccus chrysop, a serranoid fish found in the Great Lakes and southward in the Mississippi valley.

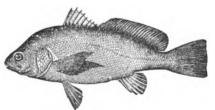
lake-carp (lāk'kārp), n. The carp-sucker of the Great Lakes, Carpiodes thompsoni. lake-land (lāk'land), n. Same as *lake coun-

lakelander (lāk'lan-der), n. One who lives in the lake-land or lake country of England.

lake-ore (lāk'ōr), n. A peculiar type of brown hematite which is deposited in certain Swedish hematite which is deposited in certain Swedish lakes and possesses a concretionary oölitic or pisolitic texture. After being dredged or dug the layer is renewed in 25 or 30 years. J. F. Kemp, Ore Deposits of the U.S. (4th ed.), p. 92.

lake-pitch (lāk'pich), n. A commercial name of the softer, less altered, and more valuable kind of asphalt obtained from the pitch lake in the island of Trinidad. Compare *land-

laker¹, n. 3. [l. c.] On the Eric Canal, a large canal-boat, one that could be towed on the Great Lakes with safety.—4. [l. c.] A log-driver whose work is chiefly on lakes. lake-sheepshead (lāk'shēps'hed), n. A freshwater sciænoid fish, Aplodinotus grunniens,



Lake-sheepshead (Aplodinotus grunniens). (From Bulletin 47, U. S. Nat. Museum

found in the Great Lakes and southward to Texas. Also known as drum or thunder

lake-trout, n. 3. A fish, Galaxias auratus, of the family Galaxidæ, found in Tasmanis.

lakism (läk'izm), n. [lake¹ + -ism.] Imitation of the style of the Lake poets. See Lake School, under lake1.

lakmoid, n. Same as lacmoid. lakmus, n. Same as lacmus.

laky² (lā'ki), a. [lake³ + \cdot y¹.] Resembling a lake (pigment) in color; laked: specifically, noting the change of color of the blood caused by a sudden discharge of hemoglobin into the blood-plasma in consequence of destruction of the erythrocytes.

la-la (lä-lä'), a. [Syllables suggestive of languor or weakness: compare *la-di-da. There is an allusion to tra-la-la, tra-la, meaningless syllables used in singing.] So-so; poor; languid. [Colloq.]

lall² (lal), v.i. [Imitative, like Gr. $\lambda a \lambda \epsilon i v$, speak, etc.: see *lallation*.] To speak unintelligibly speak childishly. See *lallation*.

lalling (lal'ing), n. Same as lallation.

Gratitude to the lama-deity for life and safety.

Geog. Jour. (R. G. S.), XV. 621.

Lamaitic (lä-mä-it'ik), a. Same as Lamaistic.

Lamanism (lä'man-izm), n. [F. lamanisme.] Same as Lamaism.

amanite (la man-it), n. According to the Book of Mormon, a descendant of Laman, the son of Lehi, a righteous Jew of the tribe of Joseph, who fled with his sons from the destruction of Jerusalem to America. Because ter or state of being lamellated; specifically, in of their wickedness the Lamanites lost their fair skin, sank into barbarism, and became the red Indians.

Lamarckian, a. II. n. One who holds the Lamarckian theory. See Lamarckism.

Lamarckism, n. 2. The doctrine that the gen-

eration of an organism from an egg is epigenesis or new formation. [Rare.]—New Lamarckism. Same as *Neo-Lamarckism.

Lamarckite (la-mär'kīt), n. One who holds the Lamarckian theory; a Lamarckian. See Lamarckism.

bamb, v. i.—To lamb down, to lose or spend money; be cleaned out. [Australian.]

II. trans.—To lamb down, to knock down [spend] a check or a sum of money in a spree. E. E. Morris, Austral English. [Australian slang.]

lambardar, lumberdar (lum-bar-dar'), n. [Hind. lambar, number, < E. number, + Pers. -dar, suffix of agent.] A village head man of northern India who is registered by a number in the collectors' roll and receives and pays over the government dues.

lambda, n. 3. A British collectors' name for a common Old World noctuid moth, *Plusia gamma*, occurring in Europe, China, Japan, and India, and also, probably by introduction, in South America.

Lambdoid ridge or crest. See *ridge. lambdoidean (lam-doi'dē-an), a. Same as

lambdoid. lamber (lam'er), n. [lamb + -erl.] 1. A shepherd whose business it is to take care of the young lambs and ewes at lambing-time.
2. A ewe when lambing.

Lambert's law of cosines. See * method. See altitude of a *cloud.

Lambeth degree, delf. See *degree, *delf2. lambiness (lam'i-nes), n. The conventional characteristics of lambs.

I confess I have always abominated the lamb, and nourished a romantic feeling for the wolf. O, be done with lambiness! Let us see there is a prince, for I am weary of the distaff. R. L. Stevenson, Prince Otto, ii. 4. lambitive (lam'bi-tiv), a. and n.

lamb-lily (lam'lil'i), n. The Scotch asphodel, Tofieldia palustris.

lamb-mint (lam'mint), n. Either peppermint or spearmint.

lamb's-cress (lamz'kres), n. cress, Cardamine hirsuta, an Old World plant common, and perhaps native, in the eastern

lamb's-foot (lamz'fut), n. The common plantain, Plantago major; also, occasionally, the lady's-mantle, Alchemilla vulgaris.

Resembling lamb's-tail (lamz'tāl), n. The common clubspecifically, moss or running-pine, Lycopodium clavatum.
blood caused lamb's-tongue, n. 3. See Scolopendrium.
lamb's-wool sky. See *sky1.

lamdan (lam-dän'), n.; pl. lamdanin (-dä'nēm). [Yiddish, \ Heb. lamad, learn.] A Talmudical scholar.

lamed (lä'med), n. [Heb. lāmed.] The twelfth letter () of the Hebrew alphabet, corresponding to the Syriac lomad, the Arabic lām, the Greek lambda, and the English L. Its numerical value is XXX.

Laminated spring. See *spring.

ophthalmic practice.—Appunn's lamella, in psychophys., a strip or band of soft steel, held in a wooden vise and vibrating (according to its position in the vise) between the limits 4 and 24 in the second: used to determine the lower limit of tonal hearing.—Ovigerous lamella, in cirripeds, one of the sheets or plates of ova.—Pleurapophysial lamella, the thin plate of bone which bounds externally the vertebrarterial canal on either side of the neck in birds. Micart.—Supporting lamella, in hydroid polyps, the delicate, transparent, non-cellular film or membrane lying between the ectoderm and the endoderm: same as mesoglaza.—Vascular lamella. See *cathammal, 2.

Lamellar cataract. Same as zonular cataract

Lamellar cataract. Same as zonular cataract

(which see, under zonular).

Lamellaria (lam-e-lā'ri-š), n. [NL., < L. lamella, a thin plate, + -aria.] The typical genus of the family Lamellaridæ. Oken.

Lamellariidæ (lam-e-lā-rī'i-dē), n. pl. [NL., \(Lamellaria + -idæ. \)] A family of tenioglossate gastropods, having a mantle which covers the shell more or less completely, no operculum, and dorsally fused jaws. It includes the genera Lamellaria, Marsenina, Velutina, and Onchidiopsis. They are carnivorous, living on hydroxoans, alcoyonarians, and colonial ascidians. With the exception of the first genus, they are boreal forms.

ter or state of being lamellated; specifically, in geol., an arrangement of the minerals of a geol., an arrangement of the minerals of a metamorphic rock in parallel lamells or folia. 'Lamellation' and 'foliation' are employed in preference to 'bedding' or 'atratification,' because the structure may have no connection with sedimentation, but be the result of crushing and shearing. Getirie, Text-book of Geol., p. 789.

Lamellicorn 18af-chafer. See *leaf-chafer.—Lamellicorn scavenger. See *excuenger and Laparosticia.

lamellicornous (lā-mel-i-kôr'nus), a. [lamellicorn + -ous.] Same as lamellicorn.

lamelligerous (lā-me-lij'e-rus), a. [L. lamella, a thin plate, + gercre, bear, + -ous.] Bearing lamellse or ridges: as, the lamelligerous lobe in Nautilus.

lobe in Nautilus.

lamelloid (lā-mel'oid), a. [lamel(la) +-oid.]
Having the character of a thin plate or lamella.

Now as we proceed up the neck to the head, these transverse processes project less and less from the bodies of the vertebre, and become less robust and angular, at the same time that they are antero-posteriorly elongated; and possess regular lamelloid walls, so as to form rather canals than simple foramina for the artery.

Amer. Nat., Jan., 1904, p. 31.

lamellose-stellate (lam'e-los-stel'āt), a. With lamelles or plates arranged radially or in star-

lamellæ or plates arranged radially or in star-

shaped groups or clusters.
lamellous (lā-mel'us), a.
Same as lamellose. [lamella + -ovs.]

amellule (lā mel'ūl), n. [NL. lamellula, dim. of L. lamella, a thin plate: see lamella.] A small lamella.

lamentational (lam-en-tā'shon-al), a. [lamentation + -al¹.] Pertaining to or of the nature of lamentation.

lamiid (lā-mi'id), n. and a. I. n. A beetle of the coleopterous family Lamiidæ. II. a. Resembling or belonging to the family

Lamiidse

lamin (lam'in), n. [L. lamina: see lamina.]

1. Same as lamina.—2. A thin plate (of metal) used as a charm, or in old astrological work. N. E. D.

N. E. D.

lamina, n.—Dental lamina, an ingrowth of ectoderm from the edge of the jaw, from which in turn are given off the cells which form the enamel-organ of the developing teeth; the dental ridge.—Dorsal lamina. (b) In ascidians, a prominent median longitudinal ridge running along the middle of the dorsal surface of the pharynx to the opening of the esophagus.—Lamina chorioidea, an irregular fold of connective tissue and blood-vessels invaginated into the third ventricle of the reptilian brain, between the lamina terminalis and the paraphysis. It is prolonged laterally through the foramen of Monro into the lateral ventricle, where it is known as the choroid plezus.—Lamina commissuralis mesencephalai, as wide commissure of white fibers in the roof of the mesencephalon, limited in front by the posterior commissure and behind by the decussation of the fourth nerves.—Lamina papyracea, that portion of the ethmoid bone which appears in the orbit, partaking in the formation of its inner wall; the os planum.—Sutural lamina, in the polyplacophorous mollusks or chitona, one of the double projections on the anterior margin of each valve, except the first. These projections are processes of the articulamentum or inner layer of the test.

laminal (lam'i-nal), a. [lamina + -all.] Per-

laminal (lam'i-nal), a. [lamina + -al¹.] Pertaining to or of the nature of a lamina; disposed in laminæ.

laminariaceous (lam-i-nā-ri-ā'shius), a. Belonging to the family of seaweeds Laminari-

lamella, n. 2. pl. The British pharmacopoial lamination, n. 2. In elect., the constructing name for medicated gelatin disks used in of the iron part of a magnetic circuit of thin

lamins or sheets of iron or steel, for the purpose of eliminating, in an alternating or rotating magnetic field, the induction of currents ing magnetic field, the induction of currents in the iron and the loss of power resulting therefrom. The lamination for this purpose must be at right angles to the direction in which an induced current would flow, but parallel to the direction of the magnetic flux.

—Oblique or transverse lamination, in geol., false bedding.

laminectomy (lam-i-nek'tō-mi), n. [L. lam-ina, lamina, + Gr. ἐκτομή, excision.] In surg., exsection of the laminæ of one or more of the vertebræ to relieve pressure upon the spinal

In a recent case of the fourth cerv pachymeningitis. cent case in which there was anterior dislocation arth cervical vertebra, laminectomy was done for ningitis.

Med. Record, July 11, 1903, p. 78.

laminous (lam'i-nus), a. [NL. laminosus: see laminose.] Same as laminose.

laminous (lam'i-nus), a. [NL. laminosus: see laminose.] Same as laminose.

lamp¹, n.—Alcohol lamp. Same as spirit-lamp.—Alembical lamp. See *alembical.—Alformant lamp, an apparatus, invented by Schering, in which paraform is converted into formaldehyde-gas by the heat from an alcohol lamp.—Annealing-lamp, an alcohol lamp for heating dentists' foll.—Automatic lamp, a heating-lamp which extinguishes itself when the object to be warmed reaches a certain temperature. A lamp of this kind is commonly used by dentists in heating vulcanizers and in other work of this nature.—Berzelius's lamp, an Argand lamp for burning alcohol, much used in chemical laboratories before coal-gas became generally available for heating purposes. It was brought into use by the Swedish chemist Berzelius early in the nineteenth century.—Blow-through lamp, a form of fiash-light apparatus used in photography in which the material used to produce the fiash is blown through the fiame of a lamp.—Brehmer lamp. See electric *arc.—Cooper-Hewitt lamp, a form of mercury arc-lamp. See *mercury lamp and electric *arc.—Dibdin's pentane Argand lamp, a form of standard lamp which burns a mixture of air and pentane. Ascreen on the metal chimney of the Argand steatite burner may be moved to 2.15 inches (64.6 millimeters) above the steatite ring, thus affording a source of light of ten candle-power.—Duboseq lamp, a self-regulating electric arc-lamp especially adapted to lantern projection and lighthouse illumination.—Finsen lamp, an electric lamp of peculiar construction used for the administration of the Finsen light treatment. See Finsen *kight treatment and Finsen's *apparatus.—Fluorescent lamp, a lamp consisting of a glass bulb coated interiorly with calcium tungstate or some other substance which fluoresces under the influence of an electric disharge.—Focus-lamp, an incandescent electric lamp with closely coiled filament: designed for use in projection-lanterns and for other optical purposes it is necessary to compress the filament into a small space,

When incandescent lamps are used for optical purposes it is necessary to compress the filament into a small space, so as to bring it into the focus of a lens or mirror. The filament is then colled or crumpled up into a spiral or zigzag form. Such lamps are called focus lamps.

Encyc. Brit., XXVIII. 88.

so as to bring it into the focus of a lens or mirror. The filament is then colled or crumpled up into a spiral or zigzag form. Such lamps are called focus lamps.

Braye. Brit., XXVIII.** 88.

Pormaldehyde lamp, a fameless lamp in which methyl (wood) alcohol, as a liquid or a vapor, is brought, with air, into contact with platinized asbestos wicks or perforated sheets. Formaldehyde results from the incomplete oxidation of the sloohol. It is used in disinfecting. See **formaldehyde-generator.—Girard's lamp, a lamp for burning illuminating-oil, so constructed as to maintain the supply of oil at a constant level.—Harrourt lamp. See **tight standard.—Heffner lamp.** See **tight standard.

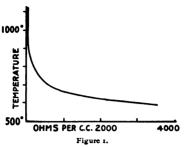
Interventional standard. See **tight standard.—Heffner lamp.** See **tight standard.—Heffner lamp.** See **tight standard.

Interventional standard. See **tight standard.—Heffner lamp.** See **tight standard.—Heffner lamp.** See **tight standard.

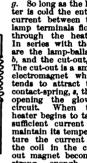
Interventional standard. See **tight standard.—Heffner lamp.** See **tight standard.—Heffner lamp



terminals are of platinum wire joined to the ends of the glower by fusion in the electric arc. The glower when cold is an insulator, but when heated it becomes an electrolytic conductor. When traversed by a direct current the heat generated appears chiefly at the positive pole and platinum-black is deposited at the negative pole. When alternating currents are used the distribution of heat is uniform and the life of the lamp is greatly increased. Since the resistance of the filament, as shown in the curve in Fig. 1, falls rapidly with ris-



ing temperature, the lamp when placed in a constantpotential circuit tends to take increasing current as the
filament becomes hotter. It is therefore necessary for
purposes of regulation to place in series with the filament
a metallic resistance called the ballast. This consists of
a very fine iron wire mounted in a glass tube and surrounded with hydrogen. Its resistance increases with
rise of temperature and thus counterbalances the loss of
resistance in the filament. Upon starting the lamp it is
necessary to bring the filament to a temperature such that
it begins to carry a current sufficient to keep itself hot.
The device used for this purpose in Nernst lamps of the
American type is called the heater. It consists of a porcelain tube, about 30 millimeters long, around which a fine
platinum wire is spirally wound. The coil is kept in
place by a paste or enamel. Two or more such heaters
are placed horizontally above the glower, and heat the
latter by radiation to the temperature necessary to start
the lamp. The glower begins to take current at about
700° C. The electrical connections are shown in Fig.
2. The heater, h, is in multiple circuit with the glower,
So long as the latter is cold the entire
current between the
lamp terminals flows
through the heater.
In series with these
are the lamp-ballast,
b, and the cut-out, c.
The cut-out, c.
The cut-out is a small
electromagnet which
tends to attract the
contact-spring, s, thus
opening the glower,
opening the glower,
opening the glower,
the series with these
are the lamp-ballast,
b, and the cut-out, c.
The cut-out, c.
The cut-out, c.
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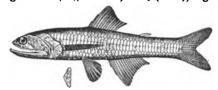


break the circuit, after which the entire current of the coll in the cutout magnet becomes through the glower. The electrical efficiency of the Nernst lamp is about the same as that of the ordinary incandescent lamp (when used with an opal shade about 8.47 watts per mean spherical hefner). The radiant efficiency of the Nernst filament, obtained by integration of the energy curve by Coblentz, was found to be .033 as against .04 for the acetylene flame. The temperature of the filament is somewhat lower than that of the ordinary incandescent lamp—from 1,400 to 1,700° C. The candle-power, however, is high on account of the large diameter of the filament, and the form of the lamp is well adapted for lighting from overhead, since no shadows are cast downward. The color of the light of the Nernst lamp differs but little from that emitted by carbon at the same temperature. It is somewhat stronger in the red than the light from the acetylene flame, and is free from the marked selective radiation characteristic of the Welsbach mantle.—Open-arc lamp. See electric *arc.—Osmium lamp, an incandescent electric lamp having a filament of metallic osmium instead of carbon. Devised by Auer von Welsbach.—Phase-lamp, in elect., an incandescent lamp used to indicate the phase relation between alternating-current generators.—Pilot-lamp, (a) An electric lamp upon a switchboard, used to indicate the position of switches. (b) In telephony, an auxiliary signaling-lamp placed in front of the switchboard and serving to indicate to the chief operator delay in responding to any one of a group of call-signals.—Platinum lamp. (a) A lamp having a platinum filament which is made incandescent by an electric current. (b) A lamp having a spiral of platinum placed above the wick. The vapor from the alcohol (ethyl or methyl) drawn up by the wick unites with the air through the agency of the platinum, which is thus made to glow.—Pyro-electrolytic lamp. Same as Nernat *Alamp.—Reckhasnstalt lamp, a modified form of the Hefner lamp. See *Alight stand

energy only about half that for a carbon lamp, but the cost of the lamp itself is (at any rate at present) higher, and the illuminating power is not as generally acceptable as the 16 candle-power in general use. The resistance of the tantalum filament increases with rise of temperature, the durability is as great as that of carbon, and the liability to injury by mechanical shocks or accidental increase of voltage is, it is claimed, less.

or votage in it is claimed, less.

Lampadena (lam-pa-dē'nā), n. [NL., < Gr. λάμπη, a torch, + άδην, a gland.] A genus of deep-sea fishes found in the Gulf Stream. Lampanyctus (lam-pa-nik'tus), n. [NL., ir-reg. < Gr. λάμπη, a torch, + νύξ (νυκτ-), night.]



(From Bulletin 47, U. S. Nat. Museum.)

A genus of deep-sea fishes commonly known as lantern-fishes: widely distributed. lamp-ballast (lamp'bal'ast), n. In elect., a resistance placed, for purposes of regulation, in series with the filament of an electric lamp. In the case of the Nernst lamp the ballast consists. sists of a very fine iron wire in an atmosphere

of hydrogen within a sealed glass tube.

lamp-bank (lamp'bangk), n. A number of incandescent lamps mounted in rows upon a frame and connected together either in multi-

frame and connected together either in multiple circuit or in multiple series. Also called a bank of lamps. Trans. Amer. Inst. Elect. Engin., 1900, p. 171.

lamp-bend (lamp'bend), n. A bent or curved pipe-elbow, used to connect two pipes which meet at an angle greater than a right angle. lamp-changer (lamp'cbān'jèr), n. A device with a long handle for removing incandescent electric lamps from, or placing them in, their sockets when the latter are difficult of access. lamperina (läm-pe-rē'nä), n. [Amer. Sp.] lamperina (läm-pe-rē'nä), n. [Amer. Sp.] A common name of Polistotrema stouti, one of the eel-like lower vertebrates found on the California coast and north to Cape Flattery. Lampeter Brethren. A small sect established in 1846 among some students of Lampeter Col-lege at Lampeter, Cardiganshire, Wales, by Henry James Prince, one of the extreme evan-

gelical school. His fanaticism led him to declare his doctrines to be the new dispensation of the Holy Ghost, superseding the dispensation of Christ. He and those who believed him lived in an abode called the Agapemone, or 'abode of love.' Also Princeites.

lamp-fish (lamp'fish), n. A deep-sea fish, Scopelus resplendens, of the family Myctophidæ, having luminous spots, or photophores, on the

lamp-foot (lamp 'fut), n.; pl. lamp-feet (-fēt).
A unit sometimes employed in computing the wiring of an installation of electric lights. The product of the number of lamps by the feet of vire necessary to supply them gives the number of lamp-feet.

ber of lamp-feet.

lamp-hour (lamp'our), n. The energy required to maintain one electric lamp in normal operation for one hour: a practical unit sometimes employed in electric lighting.

lampic (lam'pik), a. [lamp! + -ic. The acid was first obtained by burning ether in a lamp.]

Derived from a lamp: applied specifically to an acid, a mixture of acetic acid and aldehyde, formed by the oxidation of alcohol.

formed by the oxidation of alcohol.

lamp-indicator (lamp'in'di-kā-tor), n. A
device consisting of a Wheatstone bridge one arm of which contains an incandescent lamp. The adjustment is such that when the electromotive force of the circuit to which the indicator is applied reaches proper value the bridge is balanced.

lampistry (lam'pis-tri), n. [lampist + -ry.]
The art of making and decorating lamps; the work of a lampist.

lamp-post (lamp'post), n. A post or pillar, usually of iron, designed to support a streetlamp or other outdoor lamp.

lamp or other outdoor lamp.

lamprey, n.—Brook-lamprey, a small lamprey which inhabits the brooks of Europe and North America. Five or six species are known.—Silvery lamprey, small black lamprey, common names of the lampreys. lamprey-eel (lam'pri-ēl'), n. A lamprey. lamprite (lam'prit), n. See *meteorite.

lamp-room (lamp'röm), n. A room or compartment, as on a vessel, especially fitted for filling and trimming lamps and storing them when not in use. when not in use.

lamprophyllite (lam-pro-fil'it), n. [Gr. λαμπρός, shining, + φίλλον, leaf, + -ite².] A
mineral from the nephelite-syenite of Kola,
Russian Lapland, related to astrophyllite in
form, cleavage, and probably in composition.
Lamprops (lam'props), n. [NL., < Gr. λαμπρός, shining, + ωψ(ωπ-), eye.] The typical
genus of the family Lampropsidæ. L. quadriplicata is found off the northeastern coast of
America. Sars, 1863.

plicata is found off the northeastern coast of America. Sars, 1863.

Lampropsidæ (lam-prop'si-dē), n. pl. [NL., < Lamprops + -idæ.] A family of cumacean crustaceans in which the first antennæ have both flagella well developed and nearly equal, the male has three pairs of pleopods or none, and the telson is distinct, with three or more terminal spines. It includes the genera Lamprops. Hemilamprops. Paralumprops. props, Hemilamprops, Paralamprops, Platyaspis, and Chalarostylis.

lamp-station (lamp'sta*shon), n. In coal-mining, an underground cabin where safetylamps may be opened and trimmed: a place beyond which no naked lamps must be taken. lampyrid (lam'pi-rid), n. and a. I. n. A member of the coleopterous family Lampyridæ.

II. a. Having the characters of or belonging to the family Lampyridæ.

18n (lān), n. [Sw., a fief, a fee, an administrative district, = AS. læn, a grant, fief: see læn.] An administrative division of Sweden; a government at the head of which is a prefect nominated by the king.

Lans philosophics, an early chemical name for the light, woolly flakes of white zinc oxid, produced by burning vapor of zinc which is allowed to escape into the air.

lanacyl (lan'a-sil), n. A trade-name of several acid coal-tar colors.— Lanacyl violet. See

lanai (lä-nä'i), n. [Hawaiian.] In Hawaii, a

lanal (1a-na'1), n. [Hawanan.] In Hawan, a bower, piazza, or porch.

Lancashire boiler. See *boiler.

Lancaster yellow. See *yellow.

lancel, n. 9. A pointed stick of light timber used for the erection of a temporary telegraphor telephone-line: used especially in military operations.

The second truck is loaded with four or five hundred lances of well-seasoned cypress or spruce, each a trifle over fourteen feet in length.

Sci. Amer., Dec. 27, 1902, p. 459.

Sable lance, a fish, Mellotus villosus, of the family Argentinidæ, found in the northern parts of the Atlantic and Pacific.

lanceated (lan'sē-ā-ted), a. [L. lanceatus (< lancea, lance) + -ed².] Shaped like a (< lancea, lance) + -ed lance; pointed and long.

Ammodytes, which includes small carnivorous fishes inhabiting sandy shores of cold regions.

lance-head, n. 2. Lachesis mutus, a venomous snake of South America. See bushmaster.

lancelet, n.—Bahama lancelet, a lancelet, Asymmetron lucayanum, found in the Bahamas.—California lancelet, Branchiostoma californiense, found from San Diego Bay southward.—West Indian lancelet, Branchiostoma caribæum, found in shallow waters, buried in the sand, from Beaufort, North Carolina, to the mouth of the La Plats

Lanceola (lan-sē-ō'lä), n. [NL., < LL. lanceola, dim. of L. lancea, lance.] The typical genus of the family Lanceolidæ. Say, 1818.

Lanceolidæ (lan-sē-ol'i-dē), n. pl. [NL., < Lanceola + -idæ.] A family of amphipod crustaceans, of the tribe Hyperidea, having the first antenna straight and the first joint of the flagella swollen. It is typified by the genus Lanceola.

lance-ovate (lans'o'vat), a. In bot., very narrowly ovate.

lancet, n. 4. In entom., one of the lower pair of piercing organs in the dipterous mouth; the scalpella: supposed by Kirby and Spence to represent the maxillæ of the haustellate mouth. lanceted (lan'set-ed), a. Having a lancet-window or a lancet-arch.

lancet-headed (lan'set-hed'ed), a. Having a pointed head like a lancet: said of windows. See cut of lancet-window.

lancet-plate (lan'set-plat), n. In the structure of the Blastoidea, a long narrow plate, pointed at both ends, which extends along the center of each ambulacrum. Its proximal end is inserted between the deltoids and takes part in the lip around the summit opening. The upper surface is excavated along the median line, and this groove probably served to conduct food to the mouth. The plate has an interior axial canal which communicates by means of the ambulacral opening with an oval ring belonging to the water-vascular system. In some cases there is a smaller plate beneath which is called the under lancet-plate.

to the Pg. or Sp., which, in that case, is per-haps referable to the Eng. launch, lanch. But the history is not clear. Prob. E. lanch, a boat, has nothing to do with launch, verb.] launch or barge; a medium-sized boat used in the Philippine Islands for the transportation

of merchandise and native products.

Lancs. An abbreviation of Lancashire.

land¹, n. 9. One of the strips into which a field is divided in plowing: same as ridge, 3.

See quotation under *cut, 24. Compare dead land! n. 9. One of the strips into which a field is divided in plowing: same as ridge, 3. See quotation under *cut, 24. Compare dead *furrow.—Dun land, in Devonshire, England, a soil which has resulted from the decomposition of the schistose rock of the district.—Height of land, a line or belt of land between the opposite alopes of two river systems; a divide; a water-parting. *Bnoy.*Brit., XXXI. 382.—Indemnity lands, in United States law (in the construction of land-grants made in aid of railroads), those lands which are selected in place of parcels lost by previous disposition or reservation for other purposes, the title to which does not accrue until the time of their selection.—Judge Jeffrey's land. See *king's *kand.—King's land, a child's outdoor game in which the king stands within certain boundaries until he succeeds in touching one of the other intending players, who then becomes king. The game, with variations, is known by various other names, as *Van Diemen's land, Dixie's land, golden pavement, Judge Jefrey's land, Tom Tiddler's ground, etc.—Land hemisphere. See *hemisphere.—Land in severalty. See severalty.—Land of Promise. See promise.—No man's land. (b) *Naut.*, an article or space left uncleaned or uncared for on account of its not falling within the limits of the work assigned to individuals of the crew.—Nook of land. See nook.—Poison land, in western Australia, land so overed with a growth of plants poisonous to sheep and cattle that it cannot be used for pasture.—Running with the land, being of force by association with the land affected: a phrase applied to covenants in deeds of real property. See covenants which run with the land, under covenant. A personal covenant is binding on the covenant or only. A real covenant—one running with the land —is created where the maker binds himself and his heirs, executors, or administrators.—Scab land, in Washington and Oregon, land originally covered with fine volcanic dust which has been blown away by the wind, leaving on the surface only a mass of sha

land-agent (land'ā"jent), n. A real-estate agent; in England, also a steward or manager of an estate or landed property.

landamann (län'da-män), n. The chief mag-istrate of a Swiss canton; also the chief officer in some of the smaller districts.

officer in some of the smaller districts.

landau, n.—Canoe landau, a landau in which the lower lines of the body have a continuous sweep. The term is used to distinguish this form from the angular quarter and drop-center types.—Five-glass landau, a landau with a leather top over the rear seat. The front section has large glasses in frames which can be dropped down in the body. The supports of the top are hinged to fall down upon the boot, and leave the front seat uncovered. There are three windows in the front section and two in the doors: hence the name.

landboc (land'bok), n. [OE. landbok, < land, + boc, book.] In old Eng. law, a deed or grant of land, usually Saxon. Such deeds had little weight against the king's claims.

land-breast (land brest), n. The frontage or face of the wall which forms a bridge-seating or abutment and acts as a retaining wall to the bank behind it. It includes both the abutment-pier proper and the wing-walls at each side of it.

each side of it.

land-chain (land'chān), n. Same as Gunter's chain (which see, under chain).

land-crab, n. 2. A burrowing crayfish, Engeus fossor, of Tasmania and Victoria (Australia), which forms crab-holes.

landdrost (land'dröst), n. [D., < land, land, + drost, bailiff, steward.] In South Africa, a magistrate.

Landenian (lan-de'ni-an), a. and n. [Landen, a town in Belgium, + -ian.] I. a. In geol., pertaining to the basal deposits of the Lower

Eocene in France and Belgium, corresponding to the Woolwich and Reading beds of England. The lower deposits are fluviomarine, while the upper beds contain only marine fossils.

II. n. The Landenian deposits.

landfall, n.—To make a good landfall (naut.), to sight a certain point of land at the time calculated.

land-form (land'form), n. An area of land having certain topographic features which distinguish it from neighboring areas. W. M.

landgraveship (land'grāv-ship), n. The office, territory, or authority of a landgrave. N. E. D. landgravess (land'grāv-es), n. Same as land-gravine. N. E. D.

landing, n. 9. In lumbering: (b) A place to which logs are hauled or skidded preparatory to transportation by water or rail. (c) A plattransportation by water or rail. (c) A platform, usually at the foot of a skid-road, where logs are collected and loaded on cars. A lightning landing is one having such an incline that the logs may round upon the cars without assistance.—To break a landing, to roll a pile of logs from a landing or bank into the water.

landing-box (lan'ding-boks), n. In mining, the box into which the mine-pump delivers

landing-party (lan'ding-pär'ti), n. An armed boat's crew sent on shore for offensive or defensive operations, such as engaging an enemy, or for protecting life and property.

land-junker (land'yöng"kèr), n. [G., < land, land, + junker, junker.] In Germany, one who owns lands or estates; a squire.

land-lane (land'lān), n. An open waterpassage in the ice of the polar oceans leading

toward land.

We discovered new islands in the west as far as our range of vision admitted, and, to judge by the large open land-lane which ran in that direction, one might suppose that the land there was of considerable extent.

Geog. Jour. (R. G. S.), IX. 482.

land-law (land'lâ), n. 1. The law of a land or country; the 'law of the land.'—2. Law, or a law, relating to land considered as property. land-lead (land'lēd), n. Same as *land-lane. See the extract.

This open water must rather be regarded as a land-lead, which, like all other land-leads, is formed and opened by a land-breeze, and is closed again by the wind blowing in shore.

Geog. Jour. (R. G. S.), IX. 485.

land-line (land'lin), n. 1. An overland telegraph-line, as distinguished from a marine cable.—2. In fishing, a line passing from the end of a seine to the shore. Knight, Dict. Mech. Sup., 1884.

land-lobster (land'lob'ster), n. A land-crab or robber-crab.

land-lock (land lok), n. 1†. The state of being shut in, or almost shut in, by land.—2. A landlocked place, as a harbor or valley.

landlordly (land' lôrd-li), a. [landlord + -ly1.] Like a landlord or pertaining to a land-

landlordship (land'lôrd-ship), n. The position or duties of a landlord.
land-marker, n. 2. [cap.] One of the sect called Landmark *Baptists (which see).

land-marshal (land'mar'shal), n. 1. A provincial marshal in Prussia and some other parts of the German Empire.—2. The speaker or presiding officer of the first Chamber of the Swedish Diet

land-mere (land 'mēr), n. A boundary of a

parish, county, etc.

landocracy (lan-dok'ra-si), n. [land¹ + Gr. -κρατια, < κρατεῖν, rule.] A class which rules or controls by virtue of its ownership of landed

property. [Humorous.] landocrat (lan'dō-krat), n. One who belongs to the landocracy.

land-office, n.—A land-office business, a 'rushing' business; a boom. The allusion is to the brisk work of the local government land-offices in the western United States when they are besieged by applicants for land patents on the occasion of opening new lands to settlement. [Slang.]

It [the Santiago mill] is owned by the Union Mill and Mining Company, which once did a land-office business in

ore crushing.

Rep. to House of Representatives, Precious Metals,

land-packet (land pak et), n. A name formerly given jocosely, in the newly settled parts of the western United States, to any vehicle undertaking a passage across the plains: later it had some specific applications.

land-pitch (land pich), n. A commercial name for the harder, more altered by exposure to the

The relation of rain, wind and land-relief was, in fact, strikingly illustrated by our experiences.

Geog. Jour. (R. G. S.), XV. 463.

land-sale (land'sal), n. In mining, a sale of coal at the pit, as distinguished from disposal by sea.

by sea.

landscape, n.—Classic landscape, a term used to describe the landscapes painted in the seventeenth and eighteenth centuries, especially in Italy, which were based on a feeling for architectonic arrangement of lines and masses rather than for the effects and qualities of nature.—Landscape-architect, an architect skilled in the arrangement of parks and gardens, and especially of their architectonic features, such as fountains, terraces, etc.—Landscape architecture, a term introduced to denote the treatment of landscape in a formal way, with especial attention to the exact disposition of paths, lawns, groups of trees, flights of steps, vases, statues, etc. It implies a more formal style of work than landscape-pardening. It may also include the harmonious arrangement of buildings in groups.

landscape-marble (land'skāp-mär'bl), n. A

ment of buildings in groups.

landscape-marble (land'skāp-mār'bl), n. A dense limestone in which, along cracks or cleavage-planes, there has been deposited oxid of manganese in dendritic forms.

land-scot + (land'skot), n. A tax on land for the support of the church, formerly levied in some parishes. [Eng.]

land-sculpture (land'skulp'tūr), n. The production of the forms of the land by the various processes of erosion; earth-sculpture.

land-service (land'ser'vis), n. 1. The service of the army on land, as opposed to that of the

of the army on land, as opposed to that of the navy on the sea.—2. The army; that branch of the armed forces of a country which serves on land.

landshard (land'shard), n. A strip of grass or unplowed land between two plowed pieces. [Prov. Eng.]

landslippy (land'slides or -slips.

landslippy (land'slip'i), a. Liable to landslides or -slips. N. E. D.

land-take (land'tāk), n. See the extract.

Until a Parliament for Iceland was established in 980 these chieftains were the rulers of the island, each in his district or land-take (land-nam), as it was called.

Smithsonian Rep., 1906, p. 287.

land-tied (land'tid), a. Said of coast forms which have been joined to the mainland or to



A Land-tied Island near Genoa, Italy.

each other by the growth of reefs or sand-spits.

W. M. Davis, Elem. Phys. Geog., p. 314.

Landward climate. See *climate.

landward-bred (land'ward-bred), a. Country-bred; rustic. Scott, Old Mortality, xiv.

landwardness (land'wärd-nes), n. Country-breeding; rusticity. Stevenson, Fam. Stud., 61. [Scotch.]

land-water (land'wâ'ter), n. 1. Fresh water flowing over the land; flood water; the water of lakes, rivers, springs, etc., as opposed to sea-water.—2. Open water between the ice of a frozen sea and a coast.

land-pitch
air, and less valuable kind of asphalt obtained from the pitch lake in the island of Trinidad.
Compare *lake-pitch.
land-rail, n. 2. A general name for any member of the rail family that, like the New Zealand weka rail, frequents uplands instead of marshes.

Fortunately a south-westerly gale sprang, and on September 7 let us through into the land-water. Geog. Jour. (R. G. S.), XI. 115.

I sprint-races, the space between cords, strung about 18 inches apart, which mark the straight courses of the competitors. The cords are held by iron stakes, about two feet in height, driven into the ground.

genus Cabalus. Yearbook U. S. Dept. Agr., 1898, p. 90.

land-relief (land'rē-lēf'), n. Surface form;
topography.

The relation of rain, wind and land-relief was, in fact, strikingly illustrated by our experiences.

ground.

Lane's law. See *law¹.
lane-snapper (lān'snap'er), 'n. A common name of Lutianus synagris, a lutianoid fish found from the Florida keys to Brazil.

An abbreviation (a) of Languedoc; (b) Lang. An abbrevi [l. c.] of language.

langbeinite (lang'bin-it), n. [Named after A. Langbeinte (lang bin-16), n. [Named after A. Langbein.] A potassium-magnesium sulphate $(K_2Mg_2(SO_4)_3)$ occurring in colorless isometric crystals. It is found with rock-salt at various localities in Germany.

See *James-Lange Lange-James theory.

Langen's apparatus. See *apparatus. Langerhans's island. Same as Langerhans's cell. See also *island.

Langhian (läng'gë-an), a. and n. [Langhe, tillery.
in Italy, +-ian.] I. a. In geol., pertaining to lantado (län-tä'dō), n. Short for adelantado.
the lowest division of the Miocene Tertiary in lantalic (lan-tal'ik), a. [(al)lant(uric) + -al³
lantalic (lan-tal'ik), a. [(al)lant(uric) + -al³
lantalic (lan-tal'ik), a. [(al)lant(uric) + -al³
lantalic (lan-tal'ik), a. [(al)lant(uric) + -al³
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lantalic (lan-tal'ik), a. [(al)lant(uric) + -al³
lantalic (lan-tal'ik), a. [(al)lant(uric) + -al³
lantalic (lan-tal'ik), a. [(al)lant(uric) + -al³
lantalic (lan-tal'ik), a. [(al)lantal'ik), a. [(al)lantal' France. The formation is also known as the Burdi-galian. Its deposits are of fluviatile origin and contain a great abundance of terrestrial mammalian remains.

II. n. The Langhian division. langka (läng-kä'), n. [llocano name.] Same as *nangka, 2.

Langobardic (lang-go-bar'dik), a. See Longo-

langoor, langour², n. Variants of *langur, a name applied to several large monkeys of the genus *Presbytis*.

genus Presoyus.

langosta (län-gös'tä), n. [Sp., a locust: see locust.] Anv injurious locust or grasshopper: so called in Spanish America and, to some extent, in the southwestern United States.

langoti (lun-go'ti), n. [Also langoty, langotée, lungoti, (Hind. langoti.] In India, a narrow strip of cloth passed between the legs and fastened before and behind to a string around

[Prov. Eng.]

land-side, n. 2. The side of the land facing the water; the shore.—3. The side (of an object) which faces the land rather than the water.

Land-slip terrace, an irregular bench on a slope, resulting from a land-slip.

landslipped (land'slipt), a. Marked or damaged by land-slides or -slips.

landslippy (land'slip'i), a. Liable to land-slides or -slips.

land-slips N. E. D.

land-take (land'tāk), n. See the extract.

The essential characteristic of logistic language is that its sematology is universal, so that the meaning of any character depends on the meaning assigned to it by the user—it is the special language of reasoning and avoids all ambiguities of other languages due to the multifarious meanings of single words.

J. W. Powell, in An. Rep. Bur. Amer. Ethnol., 1898-99, in civity.

Negrito languages, dialects spoken by Negritos, Papuans, or Melanesiana—Sign language, a means of communication in which signs made with the hand and other gestures take the place of articulate speech. Sign language is used by deaf-mutes, but also by many primitive tribes. It is highly developed among the Indians of the Great Plains of North America.—Whistle language, communication between individuals by means of whistling with the mouth, the sound being varied and used to convey definite ideas: practised on the Canary Islands and among the Berbers in Tunis.—Zone of language, the area of the brain in which are located the centers of sight, hearing, vocal speech, and the muscular movements necessary in writing.

2. Same as language (a)

sary in writing.

language², n. 2. Same as languet (a).

langue de bœuf (läng de bef'). [F. 'oxtongue.'] 1. A kind of spear or pike used in the middle ages, which had a rather broad, double-edged, pointed head.—2. A sword or knife having a large, flat, double-edged blade, broad at the base and tapering toward the

languidus (lang'gwi-dus), n. [L. languidus, '(he is) sick': see languid¹.] In law, a sheriff's return to a process, that the person it requires him to take into custody is too dangerously ill to be moved.

langur (lang-gör'), n. [Hind. langur, < Skt. go-lüngüla, a kind of monkey.] A native name for several large Indian monkeys of the genus Presbytis, or Semnopithecus, the two best known being the hanuman or entellus, P. entellus, the sacred monkey of India, and the black Nilgiri langur, P. johnii.

Lang yao glaze. See *glaze. laniatorial (lan'i-a-tō'ri-al), a. [Laniator-es

+-all.] Belonging to or resembling the Laniatores

atores.

lanific (lā-nif'ik), a. [L. lanificus, < lana, wool, + facere, make.] 1. Producing or bearing wool.—2. Spinning wool.

laniflorous (lā-nif'lō-rus), a. [L. lana, wool, + flos (flor-), flower, + -ous.] In bot., having woolly flowers.

lanoform (lan'ō-fôrm), n. [lan(ol) + form-(aldehyde).] Lanolin which contains 1 per cent. of formaldehyde.

cent. of formaldehyde.

lanoresin (lan-ō-rez'in), n. [L. lana, wool, + resina, resin.] A dark-colored resin contained in the waste liquors from wool-washing.

lanosity (lā-nos'i-ti), n. [lanose + -ity.] liness.

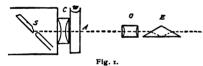
lansdowne (lanz'doun), n. [Named from a marquis of Lansdowne.] A light-weight fabric of silk and wool for women's wear.

lanson (län-son'), n. Same as lansa. [Philip-

lants (lan-son), n. Same a substitution pine Islands.]
lants, n. 2. Specifically, Anmodytes americanus. See sand-eel, 1.
lantaca (län-tä'kä), n. [Bisaya.] Among natives of the Philippine Islands, a piece of artillands.

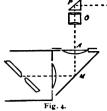
lantanine (lan'ta-nin), n. [Lantana (see def.) + -ine².] An alkaloid found in Lantana Brasiliensis. It is used in medicine as a substitute for quinine.

lantanuric (lan-ta-nū'rik), a. [(al)lant(uric) +-an +-uric.] Same as allanturic. lantern, n. 9. The misshapen proboscis (forthe the third is a state of the second of the mach supposed to be luminous) of many tropical Fulgoridæ or so-called 'lantern-flies.'—
Ardois lantern, one of the electric lanterns in an Ardois signaling apparatus. See *signal.—Ballarat lantern, a rough-and-ready lantern formed by knocking off the bottom of a bottle and sticking a candle in the neck. [Local, Australia.]—Navy lantern, a heavy lantern, well protected against injury by contact with ropes, etc., hung in a ship's rigging as an anchor-light.—Position-lantern, a light exhibited from a gaff-end or other conspicuous place, for the purpose of defining a vessel's position at night; a light shown to demonstrate the position of a vessel or other object affect or ashore.—Projecting-lantern, an instrument for throwing upon a screen an enlarged image of a diagram, picture, or object, or of exhibiting by such projection to observers at a distance the progress of a scientific experiment or demonstration. The projecting-lantern is the development of the magic lantern invented by Kircher in 1646 (which see under lantern). The modern form of this instrument as designed for the projection of lantern-alides is known as the stereopticon (see stereopticon). To adapt the lantern to the general purposes of scientific demonstration,



the form of the instrument is so modified as to admit of the introduction of apparatus in front of the condensingleness. The essential parts of such a lantern are shown in Fig. 1, in which S is the source of light, C a pair of condensing-lenese, O the object-lens, and A the field in which the object to be projected is placed. The light employed is usually that of the electric are; but the lime-light is frequently used, and in some cases other and less powerful sources of light, such as a bank of acetylene burners with reflector, a Nernst lamp, a glow-lamp with coiled carbon filament, or even a gas or oil filame, may be employed. To secure the best possible illumination from the electric arc, the carbons are commonly set at an oblique angle, as shown in Fig. 2, thus exposing the crater, C, of the positive carbon to view; or a lamp is used in which the positive carbon is horizontal, as shown in Fig. 3.

Arc-lamps for use in lantern work are either provided with an automatic focusing-feed which holds the arc in a constant position as the carbons burn away, or are regulated by hand. The heat from a powerful source of light such as the electric arc is very great, and to prevent damage to lantern-slides, or to pieces of apparatus placed in the field, a glass cell filled with water (w. Fig. 1) is often placed between the condensing-lenses and the object. The real image thrown upon the screen by means of the object-lens is inverted. In the case of transparencies or lantern-slides, the object is therefore placed in the field in an inverted position, thus giving an erect image upon the screen. Where apparatus is to be projected, however, and an erect image is desired, a reflecting-prism (E, Fig. 1), known as the erecting-prism, is placed between the object-lens and the screen. Many phenomena, such as capillary action as exhibited with floating needles, cannot be projected upon a screen by means of the ordinary form of lantern. For such experiments the 'vertical attachment' is used,



an arrangement in which the front condensing-iens are moved, and a mirror (M, Fig. 4) is mounted in front of the inner condenser so as to throw the light vertically upward. The other condensing-iens is mounted above this mirror, and the apparatus or object the image of which it is desired to project is placed in the path of the vertical ray at A. The object-lens, O, is placed in the path of the vertical beam at the proper distance and the rays after emerging from it are reflected to a screen by a second mirror or reflecting-prism, P. In the forms of lantern already described transmitted light is used, but it is likewise possible by the use of reflected light from the surface of opaque objects to project images of these upon the screen. Various devices for the projection of opaque objects have been employed, and reflecting-lanterns are known under various names, such as the megascope, an early form, the reflecto-scope, and the epidiascope. The last-named instrument, in which the difficulties of projection by reflected light have been as completely overcome as in any of the lanterns of this type, will serve to illustrate the features essential to them all. In the epidiascope, Fig. 5, the illuminating are, S, is placed in the focus of a parabolic reflector, R, the parallel rays from which pass

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reflector, R, the parallel rays from which pass through a large water-cell or cooling chamber, W, and are reflected obliquely downward by a plane mirror, I, upon the object at A, which is placed in a horizontal position. The principal diffi-

mirror, I, upon the object at I, which is placed in a horizontal position. The principal difficulty in the projection of objects and this is obviated by the use of a powerful arc-lamp requiring from 30 to 50 amperes of current, such as is employed in search-lights and by the use of larger mirrors and prisms than those commonly employed in projecting lanterns. The greater size of the apparatus makes it possible, moreover, to show upon the screen objects having a diameter of 22 centimeters, whereas in ordinary lanterns the diameter of the field is 10 or 12 centimeters. When transmitted light is to be used, mirror I, which is alonged at the top, is swung upward out of the path of the rays, which then fall on mirror II and are reflected downward to a third mirror, III, at the base of the instrument. From the surface of this mirror the rays pass vertically upward through the condensing-lens and the object, and finally through the condensing-lens and the object, and finally through the condensing-lens and the object, and finally through the condensing-lens of the instrument. For the projection of microscopic objects by means of a lantern, the ordinary object-lens is removed and a microscope objective is mounted at a suitable distance from the condensing-lenses in the axis of the rays. The real image of the object instead of being formed in the eyepiece of the microscope, which in this case is usually removed entirely, is focused directly upon the screen. For the demonstration by projection of the phenomena of polarized light, polarizing- and analyzing-prisms, which should be of large size, are similarly mounted in the path of the rays in front of the condensing-lens and between it and the objective. For the projection of spectra a vertical silt is mounted in place of the slide-holder and a dispersing-prism is placed in front of the object-lens.—Projection-lantern. See projecting-kantern.—Tornado-lantern, a lantern in which the fiame is so protected that it will not be blown out in a heavy wind or tornado.

place.

lantern-brass (lan'tern-bras), n. A skeleton casing placed in the stuffing-box of a steam-

easing placed in the stuming-look of a steam-engine cylinder and supplied with steam to prevent air from leaking into the cylinder. lantern-fish, n. 2. Any fish belonging to the family Myctophidæ: most of them are of the deep seas, and have luminous spots or photophores. lantern-gear (lan'tern-ger), n. Same as lantern-wheel

lanternist (lan'ter-nist), n. [lantern + -ist.]
One who uses pictures projected on a screen
by a magic lantern, in illustration of a lecture, or the like.

lantern-man (lan'tern-man), n. 1. One who carries a lantern.—2†. One who empties privies by lantern-light; a night-man. N. E. D. 3. One who operates a projection or magic lantern.

lanternoscope (lan'ter-nō-skōp), n. [lantern + Gr. σκοπείν, view.] In photog., a contrivance for viewing lantern-slides.

lantern-service (lan'tern-ser'vis), n. A re-

prepared for use in a stereophicon.

lanthana (lan'tha-nä), n. [NL., ⟨lanthanum.] in the abdominal wall just above the paces.

lanthana (lan'tha-nä), n. [NL., ⟨lanthanum.] laparo-elytrotomy (lap'a-rō-el-i-trot'ō-mi), n. [Gr. λαπάρα, the flank, + ἐλυτρον, sheath (va-

an arrangement in which the front condensing-lens is removed, and a mirror (M, Fig. 4) is mounted in front of the inner condenser so as to throw the light vertically upward. The other condenser so may be in the other condense ing-lens is mounted above this mirror, and the apparatus or object the image of which it is desired to project is placed in the path of the vertical ray at A. The ob-

escape notice, $+\delta\pi\omega\nu$, opium, +-ine².] A colorless alkaloid. $C_{23}H_{25}O_4N$, contained in opium. It crystallizes in microscopic prisms,

melting at about 200° C.

lanugic (lā-nū'jik), a. [L. lanugo, woolliness, down, + ic.] Derived from wool: noting an acid, a colorless compound, said to be formed by the action of barium hydroxid on wool. It precipitates substantive dyes.

name of one of the Canary Islands.] A breed of large domesticated pigeons, almost as large as the runt, but having more of the reddish

as the runt, but having more of the reddish color of the archangel.

laodah (lou'dä"), n. [Chin. lao, old, venerable, + ta, great.] In Anglo-Chinese, a chief boatman; a skipper. Also lowdah.

lap3, v. t.—To lap out, to grind out or enlarge with a lap; hence to grind with anything resembling a lap.

lap3, n. 10. The tops of trees left in the woods, in logging. Also lapwood.—11. The act of winding or being wound round a drum; the length of rope necessary to go round it once; also, the length of silk, tape, wire, or the like, also, the length of silk, tape, wire, or the like, also, the length of silk, tape, wire, or the like, necessary to go round anything once.—Lap service, in the postal service, a postal route on a railroad where several mail services pass on the same line for different destinations.—Negative inside lap, in a steam-engine: (a) The failure of the valve, when in mid-position, to cut off the exhaust from either end of the cylinder. (b) The distance by which the valve, when in mid-position, fails to cut off the exhaust, or the distance the valve would have to travel from mid-position before the exhaust would be closed.—Steam lap, in a steam-engine: (a) A projection on the valve reaching beyond the outside edge of the steam-port when the valve is in its mid-position. It is designed to close the port before the end of the stroke of the piston, thus utilizing the expansive force of the steam. (b) Same as outside lap. See lap3, 3.

Lapacho (18-Dis chō). n. [Native name.]

lapacho (lä-pä'chō), n. [Native name.] The name, in Argentina and Paraguay, of several trees belonging to the genus Tecoma, of the Bignonia family, and particularly of T. Lapacho, a tree 50 to 70 feet high, yielding a bark used in tanning and a valuable heavy wood, much sought for building and naval construction.

lapachol (lap'a-chol), n. [lapacho + -ol.] Ayel-

found in lapacho wood from South America, and greenheart wood, Ocotea Rodica, from Surinam. It crystallizes in monoclinic prisms and melts at 140° C. Also called hydroxy-

lapactic (la-pak'tik), a. and n.

II. n. A laxative.

Lapageria (lap-a-jē'ri-ä), n. [NL. (Ruiz and Pavon, 1802), named in honor of the Empress Josephine, Marie Josephe Rose Tascher de *la* Pagerie (1763-1814), the first wife of Napoleon.] Pagerie (1763-1814), the first wife of Napoleon. J. A monotypic genus of the family Liliaceæ, comprising a brilliant-flowered and graceful twining plant, L. rosea, a native of Chile. The flowers are lily-like in form, hanging singly from the upper leaf-axils. There is also a white-flowered form in cultivation. Lapagerias are considered to require much skill in the growing, although they thrive well if a cool greenhouse is given them and they become well established. In the southern United States they may be grown in the open.

2. [l. c.] A plant of the genus Lapageria. laparocolpotomy (lap"a-rō-kol-pot'ō-mi), n. [Gr. $\lambda a\pi a \mu a$, the flank, $+ \kappa \delta \lambda \pi o c$, womb (vagina), $+ \tau o \mu \dot{\eta}$, a cutting.] In surg., the operation of opening into the vagina, after the abdominal section, in order to remove a child which cannot be born through the natural channel: a substitute for Cæsarean

lantern-service (lan'tern-ser'vis), n. A religious service in which pictures thrown by a magic lantern are used to illustrate the subject of the address. N. E. D. [Eng.]

lantern-slide (lan'tern-slid), n. A plate prepared for use in a stereopticon.

lanthana (lan'tha-nä), n. [NL., ⟨lanthanum.]

lanthana (lan'tha-nä), n. [NL., ⟨lanthanum.]

gina), + τομή, a cutting.] Same as *laparocolpotomy.

Dr. Thomas was a bold and skilful operator. In obstetrics he was an advocate of laparo-elytrotomy as a substitute for cessarean section.

Med. Record, March 7, 1903, p. 383.

laparohysteropexy (lap'a-rō-his-te-rop'ek-si), n. [Gr. $\lambda a\pi \acute{a}\rho a$, the flank, + $i\sigma r\acute{e}\rho a$, womb, + $\pi \eta \acute{e}\mu$, fastening.] Operative fixation of the fundus of the uterus to the anterior abdominal wall for the relief of falling of the womb.

laparoscopy (lap-a-ros'kō-pi), n. [Gr. λαπάρα, the flank, + -σκοπια, (σκοπείν, view.] Inthe flank, + - $\sigma \kappa \sigma \pi \iota a$, < spection of the abdomen.

laparotome (lap'a-rō-tōm), n. [Gr. λαπάρα, the flank, + -τομος, < ταμείν, cut.] A form of scalpel employed in laparotomy.
 lap-bobbin (lap'bob'in), n. A spool or bob-

bin upon which something is wound or lapped, as the fleecy web or lap on a cotton-combing

lap-drum (lap'drum), n. A cylinder upon which a lap or web is wound, or which gives motion to a spool or bobbin upon which a lap or web is wound, as on some machines in a textile-mill. Thornley, Cotton Combing

Machines, p. 17.

lap-end (lap'end), n. That end of a cotton picker or scutching-machine at which the cotton emerges in the form of a web, ribbon,

lap-game (lap'gām), n. Any game in which the scores made on one hand are carried to the next game if more than enough to win the first game; a variation of railroad euchre. See euchre, 1.

lap-guide (lap'gid), n. A device, in a cetton-combing machine, to guide the unwinding of the laps or webs of cotton.

Lapham or Laphamite markings. *marking.

lap-head (lap'hed), n. That end of a scutching- or picking-machine where the cotton lap is formed into a roll.

lapidicolous (lap-i-dik'ō-lus), a. [L. lapis (lapid-), a stone, + colere, inhabit, + -ous.] Living under stones: a term applicable to many insects, and especially to certain blind ground-beetles so accustomed to this life that they have assumed the characteristics of true cave species.

sought for building and naval construction.

lapachoic (lap-a-chō'ik), a. [lapacho + -ic.] lapillo (lä-pēl'lō), n. [It. lapillo, < L. lapillus, Pertaining to lapachol.—Lapachoic acid. Same a stone: see lapilli.] Matter ejected from a volcano in the form of lapilli.

by the ancients to a bassit found in the Peloponnessa, much used for gem-cutting. A. J. Ecan., in Jour. of Hellenic Studies, XIII. 220.— Lapis specularis, an old name of the mineral selenite, or hydrated calcium sulphate (CaSO4_E4gO), in distinct crystals, the surfaces of which reflect light regularly as from a mirror.

lapis² (lä'pis), n. [Tagalog.] A large boat of small draught used for carrying merchandise. [Philippine Is.]

apactic (la pak'tik), a. and n. [Gr. λαπακτικός, lap-knee (lap'nē), n. Same as *bosom-knee. ⟨ λαπάσσειν, empty, evacuate.] I. a. Causing laplace's theory of capillarity. See *capillarity.

II π. λ λαπάστικο.

Laplacian, a. II. n. A Laplace's coefficient; a form Pm (cos γ), where γ stands for the angle between r and the radius vector r_1 of some fixed point.

lap-love (lap'luv), n. The small bindweed. Convolvulus arvensis.

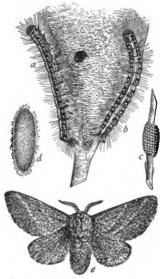
lap-machine (lap'ma-shēn'), n. for preparing cotton in the form of laps for combing.—Silver lap-machine, a machine for consolidating, attenuating, and forming into laps a number of slivers of cotton in the preparatory processes of combing.

lapon (lä-pōn'), n. A common name of one of the scorpænoid fishes, Scorpæna mystes, of the Pacific coast of Mexico and Central

Lapp. An abbreviation of Lappish.

lappa conitin (lap-a-kon'i-tin), n. [L. lappa, a bur, + E. aconitin.] A crystalline alkaloid, C₃₄H₄₈O₈N₂, contained in the tubers of Aconitum septentrionale.

4. In biol., a small lobe-shaped lappet, n. organ, such as the lappets of certain nemertean larvæ, etc.—5. Same as tegula.—6. In paleon, an ear-like crest formed in some nautiloid cephalopods, as Lituites and Ophidioceras, by an extension of the lateral margins of the an extension of the lateral margins of the aperture of the shell.—American lappet, a lasio-campid moth, Malacosoma americana, common in the Atlantic United States, where its larvæ feed on the foliage of apple, cherry, oak, birch, maple, and cah.—Esopha-



American Lappet (Malacasama america)

a, b, larva on section of nest; c, egg-mass on twig; d, cocoon c, female moth: a-d, reduced one third; e, slightly enlarged. marginal processes, a pair of which is located in each of eight notches occurring at equal intervals around the edge of the umbrella. In each notch a sense-organ is lodged and is protected by the lappets.

lappet-caterpillar (lap'et-kat'er-pil-ar), n.

The larve of a lappet-moth.

lappet-loom (lap et-löm), n. A loom for lappet-weaving, in which needle-frames are carried in front of the reed for producing the figured effects.

lappet-wheel (lap'et-hwel), n. A par lappet-loom for weaving lappet figures.

lappin (lap'in), n. A crystalline substance of glucosidal nature, said to be obtained from burdock fruit.

lapping-machine, n. 2. In barrel-making, machine for cutting, pointing, and cutting the lap in barrel-hoops, preparatory to placing them in the coiling-machine.

Lapponic (la-pon'ik), a. [NL. Lapponicus, < Lapponic, (Lapland.] Same as Lappish.

lap-rivet (lap'riv'et), v. t. To lap and rivet; to fasten with rivets, as two parts or edges which are lapped one over the other.

lap-riveting (lap'riv'et-ing), n. A method of riveting in which two parts are lapped and riveted together. See *butt-riveting.

lap-robe (lap'rio), n. A fur robe or a blanket used to cover one's lap and feet when riding

used to cover one's lap and feet when riding in a carriage or sleigh. [U. S.] laps, n. and v. A simplified spelling of lapse. lapse, v. t. 2. To be found lapsing or erring. [Rare.]

Only myself stood out;
For which, if I be lapsed in this place,
I shall pay dear.

Shak T

lap-valve (lap'valv), n.

lap-valve (lap'valv), n. A slide-valve with lap, used in an engine or pump.

lap-wheel (lap'hwēl), n. Same as lap3, 5.

lap-winding (lap'win'ding), n. See *winding1.

lapwing, n. wattled lapwing. Same as wattled plover (which see, under wattled).

lapwood (lap'wùd), n. Same as *lap3, 10.

laquearian (lak-wē-ā'ri-an), a. [L. laqueari-us + -an.] Same as *laqueary2, a.

laqueary1 (lak'wē-ar-i), n. Same as laquear.

laqueary2 (lak'wē-ā-ri), a. [L. laquearius, < laqueary3, a noose.] Armed with a noose, as a gladiator.

gladiator. laqueche (lä-kāsh'). n. [A Canadian F. form of an Indian name.] A name of Hiodon alosoides, a clupeoid fish of the family Hiodontidæ,

found in the upper Mississippi valley. 8. - 45

geal lappet, in actinozoans, as the sea-anemone, a lobe projecting from the lower, free edge of the gullet at each end of its long diameter.—Marginal lappet, in Scyphozoa, as the common jellyfish, one of the delicate beds of the Cretaceous as their uppermost

This mountain system of North America, which stands as the Mesozoic time boundary, is the Laramide system.

Dana, Manual of Geol. (4th ed.), p. 874.

larbolines, n. pl. See larbowlines. larcenic (lar-sen'ik), a. Same as larcenous. larch, n. 2. A commercial name for the lumber larch, n. 2. A commercial name for the lumber of the noble fir, Abies nobilis. See noble *fir. — Larch blister, canker, saw-fly. See *blister, etc. larch-scale (lärch'skäl), n. A scale-insect found on larch, probably Aspidiotus abietis. Larcoidea (lär-koi'dē-ā), n. pl. [NL., ⟨Gr. λάρκος, a charcoal-basket, + είδος, form.] A family of spumellarian radiolarians having the skeleton irregularly laphicular or discoid.

skeleton irregularly lenticular or discoid.

Lard butter, compound. See *butter1, *compound1.—

Neutral lard, a product obtained from the leaf-lard of the hog, by treatment similar to that by which oleo oil is made from beef fat, except that no stearin is extracted: used in making the kind of imitation of butter known as butterine.—Rough lard, lard from the smaller portions of adipose tissue cut away in butchering the hog.

of adipose tissue cut away in butchering the hog.

larder³ (lär'der), n. One who lards, as meat.

larder-fly (lär'der-fli), n. Same as larder-beetle.

lardiform (lär'di-fôrm), a. [L. lardum, lard,

+ forma. form.] Same as lardaceous.

lardine (lär'din), n. [lard + -ine².] An imitation of lard, consisting chiefly of the more solid portion of cotton-seed oil.

larding money (lär'ding mun'i) a. In Eug.

larding-money (lar'ding-mun'i), n. In Eng. law, a small sum paid by the tenants, according to the custom of the manor of Bradford, for the privilege of feeding hogs with acorns in the lord's woods.

lard-insect (lärd'in sekt), n. Same as bacon-

lardite (lär'dīt), n. [lard + -ite2.] An occasional synonym of steatite, and also of pagodite. Lardizabala (lär-di-zab'a-lä), n. [NL. (Ruiz and Pavon, proposed in 1794, established in 1798), named in honor of Michael Lardizabaly lappet-moth, n.—Velleda lappet-moth, an American lasiocampid moth, Tolype velleda, found throughout the United States. Its larvæ live on apple, pear, poplar, and other trees.

lappet-muslin (lap'et-muz'lin), n. A muslin in which figures have been woven on the lappet-shedding (lap'et-shed'ing), n. A system of dividing the warp-threads in a loom to allow certain other warp-threads to move transversely to form a figure by means of gaging-needles.

1798), named in honor of Michael Lardizabaly Uribe, a Spanish patron of botany.] A genus to plants, type of the family Lardizabalaceæ. They are twining shrubs with alternate, once to thrice ternately compound leaves, and diceious flowers, the pistulate ones borne singly on axillary axes, the staminate in axillary racemes. There are two species, natives of Chile, one of which, L. biternate, is cultivated out of doors in southern California and the warmer parts of Europe.

Lardizabalaceæ (lär'di-zab-a-lā'sē-ē), n. pl. [NL. (Lindley, 1847), \(Lardizabala + -accæ.] A family of dicotyledonous choripetalous plants of the order Ranales, based on the genus Lardizabala. It has been included by some

plants of the order Ranales, based on the genus Lardizabala. It has been included by some authors in the Berberidaces, from which, however, it differs in its many-seeded fruit, extrores anthers, and dictinous flowers. It contains 7 genera and about 18 species, chiefly Asiatic, but Lardizabala and one other genus are Chilean. They are mostly woody climbers, with palmate or pinnate leaves. See Akebia.

lardizabalaceous (lär'di-zab-a-lä'shius), a.

Belonging to the plant family Lardizabalacees.

lard-worm (lärd'werm), n. See *kidney-worm.

lardw-dardw (lär'di-där'di), n and a. Lanother

lardy-dardy (lär'di-där'di), n. see -kuaney-worm.
lardy-dardy (lär'di-där'di), n. and a. [Another
form of *ladidady, < la-di-da: see *la-di-da.]
I. n. A swell; a dandy; a fop. The word
first appeared in or about the early sixties in N. and Q., 9th ser., VIII. 19.

I. a. Fashionable; dandified; 'killing.'

[Slang.]

Withour lardy-dardy garments we were really "on the

With our taray-aaray garments we well loan, on the spot,"

And Charlie Vain came out so grand in a tall white Chimney-pot.

A. C. Hitton, in The May Exam., quoted in N. and Q., 9th [ser., VIII. 270.]

lardy-dardy (lär'di-där'di), v. i.; pret. and pp. lardy-dardied, ppr. lardy-dardying. To linger or dangle about in an affected, 'lardy-dardy' way.

Shak., T. N., iii. 3.

A slide-valve with larentiid (la-ren'ti-id), n. and a. I. n. A mempump.

Same as lap3, 5.

II. a. Having the characters of or belonging to the family Larentiidæ.

large, n.—Statutes at large. See *statute.
largemouth (lärj'mouth), n. Same as largemouthed black-bass. See black-bass.

largish (lär'jish), a. [large + -ish1.] Rather

largitional (lär-jish'on-al), a. [LL. largition-alis, < L. largitio(n-), bounty: see largition.]
Of the nature of larges; bountiful

lariat (lar'i-at), v. t. [lariat, n.] To eatch or fasten with a lariat; lasso.

laricic (lā-ris'ik), a. [L. larix (laric-), larch, +-ic.] Derived from the larch.—Laricic acid, a colorless compound, C₁₀H₁₀O₅, found in the bark of

the smaller branches of larch-trees which are not more than from 20 to 30 years old. It is volatile with steam and sublimes at 93° C., forming lustrous monoclinic crys-tals which melt at 163° C.

Larimus (la-ri'mus), n. [NL., $\langle Gr. \lambda \dot{a}\rho\iota\mu\rho\varsigma$, a different reading of $\lambda \dot{a}\rho\iota\nu o$, some sea-fish.] A genus of fishes belonging to the family Sciænidæ, the croakers, found on both coasts of America.

larinoid (lar'i-noid), a. [Gr. λαρινός, fat, + είδος, form.] Same as lardaceous.
laris (la'ris), n. The Atlas cedar, Cedrus Atlantic

Unitica. See cedar, 1. larixinic (lā-rik-sin'ik), a. Same as *laricic. lark 1, n. -Brown song-lark, Cinchloramphus cruralislark-heel (lärk'hēl), n. A long projecting heel.

Neither the colour nor the hair are regarded as important ethnical tests, and the length of the heel alone [Negro "lark-heel"] is held to be an undoubted proof of Negro origin.

Keans, Ethnology, p. 390.

lark-heeled, a. 2. Having a long, projecting heel. See *lark-heel. larking (lär'king), a. Larky; frolicsome; of the nature of a lark.

I have learned to leap, . . . which is a larking thing for don.

J. H. Newman, Letters, I. 182. N. E. D.

larking-glass (lär'king-glas'), n. A device with mirrors, used to attract larks to the net.

with mirrors, used to attract larks to the net.

At that place [Dunstaple], persons go out with what is called a larking glass, which is. . . a machine made somewhat in the shape of a cucumber.

S. R. Jackson, in Hone, Every-day Book, II. 118.

larkish (lär kish), a. [lark² + -ish¹.] Rather larky; inclined to be larky.

larkishness (lär kish-nes), n. The quality or condition of being larkish.

lark's-claw (lärks'klå), n. See lark-spur.

lark's-head (lärks'hed), n. A knot made by doubling the bight of a rope, passing it around a spar, or through a ring or hook, and then bending it down, spreading it out, and slipping a toggle

spreading it out, and slipping a toggle through the four parts (across the two outer and under the two inner). It is outer and under the two inner). It is finished by a half-hitch around the standing part with the loose end so that it will not slip when a strain is put upon it.

larksome (lärk'sum), a. [lark2 + -some.] Disposed to be larky; frolicsome.

posed to be larky; frolicsome.

larkspur, n.—Azure or blue larkspur, Delphinium Carolina *larkspur.—Oarolina larkspur, Delphinium Carolina wlarkspur.—Oarolina larkspur, Delphinium tricorne, a low but stout species ranging from Pennsylvania to Georgia and west to Minnesota and Arkansas. The flowers are deep blue, but sometimes vary to nearly white.—Nelson's larkspur, Delphinium Nelsoni, a blue-flowers age of the Great Plains.—Prairie-larkspur, Delphinium albescens, a species with white flowers slightly tinged with blue and bluish spots on the sepals, found in prairie regions from Illinois to Manitoba and south to Kansas and Arkansas. It was formerly regarded as a white-flowered form of the Carolina larkspur.—Tail larkspur, Delphinium urcsolatum, a tall species with purple or blue flowers, ranging from Pennsylvania to Alabama and west to Minnesota snd Nebraska.

larkspurred (lärk'sperd), a. Said of sheep.

larkspurred (lärk'sperd), a. Said of sheep.

The old shepherds had a comical notion, that sheep blind in the summer were larkspurred; that the sheep having trod upon a lark's nest, the old one . . . had spurred the intruder in the eye.

J. Lawrence, Cattle, p. 531 (ed. 1809). N. E. D.

larmoyant (lär-mwo-yon'), a. [F., pp. ppr. of larmoyer, be tearful.] Tearful; exhibiting a tearful sentimentality.

larnax (lär'naks), n.; pl. larnakes (-na-kēz).
[Gr. λάρναξ, a box, chest, ark, coffin.] In Gr. antiq., a chest or box; a box-like receptacle of terra-cotta, found in early Greek or Mycenæan tombre. tombs: often painted.



Terra-cotta, from Palaikastro, Crete. (From "Annual of the British School at Athens.")

Nearer the city two tombs of the same period were discovered: the one, a square chamber with a dromos, yielded parts of two painted larnakes, thoroughly Mycenean in design, a gold ring, a crystal sphere, parts of a silver vase, and a quantity of iron swords.

Rep. Brit. Ass'n Advancement of Sci., 1901, pp. 444, 446.

larrid (lar'id), n. and a. I. n. A member of the hymenopterous family Larridæ.
II. a. Having the characters of or belonging to the family Larridæ.
larrigan (lar'i-gan), n. [Origin unknown.] A boot of undressed leather, worn principally by lumbermen. Cleveland Plain Dealer, Dec. 21, 1902

21. 1902. larrikinalian (lar'i-ki-nā'li-an), a. [larrikin + -alian as in bacchanalian.] Larrikin; char-[larrikin acteristic of a larrikin.

In the larrikinalian din which prevailed from start to

ish. Evening Standard, July 5, 1898, p. 4, quoted in E. E. (Morris, Austral English.

[Morris, Austral English.

larry² (lar'i), n. [Origin obscure.] 1. Confusion; tumult.—2. A scolding; a lecture.

[Prov. Eng.]

larry³ (lar'i), a. and n. [Origin obscure.] I. a. Misty: applied in the Teign valley, England, to a land-fog coming down the estuary, as distinguished from a sea-fog running up the river. Eng. Dial. Dict.

II.n. The fog itself. Nature, quoted in N. E. D.

the river. Eng. Dat. Dat.

II.n. The fog itself. Nature, quoted in N.E.D.

larva, n.—Desor's larva, a type of larva occurring among Nemertinea. It resembles a plildium, but lacks the free-swimming phase.—Mitraria larva, in chastopodous annelids, a larva having long provisional setze which are later replaced by permanent structures.—Müller's larva, in some polyclad turbellarians, as Yungia, a larva having finger-shaped ciliated lobes, which becomes transformed into the young polyclad by the gradual diminution of the lobes.—Phantom larva, the aquatic larva of a non-biting mosquito of the genus Corethra, which possesses no hemoglobin and is so nearly transparent that, resting below the surface of a pool of clear water, it can hardly be distinguished.—Queen larva, the larva of a queen-bee, a queen-ant, or a queen-termite.

larvaceous (lär-vā'-shius), a. [larva + -accous.] 1. Resembiling a mask: said of extensive cutaneous diseases of the face.—

extensive cutaneous diseases of the face.—

2. Same as *larval, 2. from the oral surface. (From the oral surface.)

masked; not clearly defined: said of a disease of which the symp-

defined: said of a disease of which the symptoms are indeterminate.—Larval eye. See *eye! larvalian (lär-vā'li-an), a. and n. Of or pertaining to the Larvalia; one of the Larvalia. larvicidal (lär'vi-sī-dal), a. [larvicide + -all.] Pertaining to the killing of larvæ or having the property of killing them.

We are practically reduced to the use of oils in this larvicidal work.

L. O. Howard, Mosquitoes, p. 197.

larvicidal work.

L. O. Howard, Mosquitoes, p. 197.

larvicide (lär'vi-sīd), n. [NL. larva + L. -cida,
< cædere, kill.] One who or that which kills
larvæ; specifically, any substance used for
the destruction of the larvæ of mosquitos.

The same authorities [Celli and Casagrandi] recommend
[for killing mosquitoes] a powder composed of larvicida
(an anillne substance), chrysanthemum flowers, and valerian root, to be burnt in bedrooms. Encyc. Brit., XXX. 485.

larvicolous (lär-vik'ō-lus), a. [NL. larva + L. colere, inhabit.] Living within insect larvæ: said of many hymenopterous and dipterous

larvigerous, a. 2. Giving birth to living larvæ, as certain flesh-flies.

larvule (lär'vül), n. [NL. larvula, dim. of larva, larva.] One of the early stages of certain ephemerid larvæ in which there is no circula-

ephemeria larvæ in which there is no circula-tory system and no apparent nervous system.

Laryngeal chorea, crisis, vertigo. See *chorea, etc.

- Laryngeal mirror. See *mirror.

laryngitis, n.—Membranous laryngitis, croup.—

Phegmonous laryngitis, severe inflammation of the submucous connective tissue as well as of the mucous membrane of the larynx.

laryngograph (lā-ring'gō-grāf), n. [Gr. λά-ρυγξ, larynx, + γράφευ, write.] In physiol. and psychophys., an instrument for recording the movements of the larynx, voluntary (in speaking) or involuntary

laryngometry (lar-ing-gom'e-tri), n. [Gr. λά-ρυγξ, larynx, + ·μετρια, < μέτρον, measure.] Measurement of the larynx.

a. Relating to both larynx and pharynx.

laryngopharyngitis (la-ring go-fa-rin-ji'tis),

n. [NL., < Gr. λάρυγξ, larynx, + δάρυγξ,
pharynx, + itis.] Inflammation of both larynx
and pharynx and pharvnx.

laryngospasm, n. 2. Same as laryngismus. laryngostasis (lar-ing-gos'tā-sis), n. [NL., ζ Gr. λάρυχ, larynx, + στάσις, standing.] Contraction of the vocal cords in spasmodic croup. traction of the vocal cords in spasmodic croup. laryngostroboscope (lā-ring-gō-strob'ō-skōp), n. [Gr. λάρυγξ. larynx, + στρόβος, a twisting or whirling, + σκοπείν, view.] A form of stroboscope used in observation of the vibration of the vocal cords. Scripture, Exper. Phonet., p. 250. laryngostroboscopy (lā-ring'gō-strō-bos'kōpi), n. [laryngostroboscope + -y³.] Inspection by means of the laryngostroboscope of the vocal cords in action or while vibrating. laryngotracheitis (lā-ring'gō-trā-kā-i'tis) a laryngotracheitis (lā-ring'gō-trā-kē-ī-tis), n.
[NL., ⟨Gr. λάρυ⟩ξ, larynx, + τραχεία, trachea,
+ -itis.] Inflammation of the larynx and the trachea

laryngotyphoid (lā-ring-gō-ti'foid), n. [Gr. λάουγξ, larynx, + Ε. typhoid.] Typhoid fever with marked laryngeal complications.

L. A. S. An abbreviation of Lord Advocate of

lascar, n. 3. An artilleryman of an inferior class: a gun-lascar. N. E. D. lascaree, n. 2. An East Indian sailor. See lascar, 2.

laserpitin (la-ser'pi-tin), n. [Laserpitium + -ine².] A colorless compound, C₂₄H₃₆O₇, found in the root of Laserpitium latifolium. It crystallizes in rhombic prisms, melts at 114° C., and sublimes without decomposition.

lash-cell (lash'sel), n. A cell provided with cilia or flagella. L. F. Ward, Dynamic Sociol., I. 343. lashing, n. 4. pl. In mining, planks spiked on the inside of shaft-timbering to hold the

on the inside of shaft-timbering to hold the frames in place. [Eng.]

lashkar (lash'kär), n. [Pers. lashkar, a camp, an army: see lascar.] 1t. A camp of the native Indian regiments.—2. A body of Afridi soldiers: so used in English newspaper accounts of the Afridi campaign, 1897. N. E. D. lash-pole (lash'pōl), n. A cross-pole which holds logs together in a raft.

lasianthous (iā-si-an'thus), a. [Gr. λάσιος, hairy, woolly, + ἀνθος, flower, + -ous.] In bot., same as *laniflorous.

Lasianthus (iā-si-an'thus), n. [NL. (Adantage)

same as *laniflorous.

Lasianthus (lā-si-au'thus), n. [NL. (Adanson, 1763). The allusion is to the silky hairs of the calyx; < Gr. λάσως, hairy, woolly, + ἀνθος, flower.] A genus of dicotyledonous trees or shrubs of the family Theaceæ. See Gordonia.

Lasiocampid (lā"si-ō-kam'pid), n. and a. I. n. A member of the lepidopterous family Lasiocampids. campidæ.

II. a. Having the characters of or belong-

ing woolly fruit.

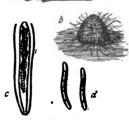
Lasiograptus (lā "si - ō - grap 'tus), n. Lasing raptus (ia'si-o-grap tus), n. [NL., 4σ ics, hairy, $+\gamma\rho\sigma\pi\tau\delta c$, engraved: see graptolite.] A genus of Lower Silurian graptolites of the family Retiolitidæ, which is peculiar in so far as the fiber-like processes of the

apertures unite to form an outer network.

Lasiosphæria (lā″si-ō-sfē'ri-ä), n. [NL. (Cesati and De Notaris, 1863), ⟨Gr. λάσιος, hairy, +

σφαίρα, sphere.] A large genus of pyrenomycetous fungi of the family Sphæriaceæ, hav-Sphæriaceæ, having separate superficial perithecia clothed with brown hairs. The spores are cylindrical, hyaline or brownish, and several-septate. About 40 species have been described, occurring mostly on decaying wood. L. hirsuta is a common species in Europe and America. lassitudinous (lasitudinus), a. [L. lassitudinous (las-i-tū'di-nus), a. [L. lassitudo (-din-). weariness,+-ous.] Languid; apt to be languid; show-ing the offects of ing the effects of languor.





Lasiosphæria hirsuta.

a, habit of the fungus; b, perithecium, enlarged; c, ascus with immature spores and paraphyses, magnified; d, ascospores, more highly magnified. (From Engler and Franti's "Pflanzenfamilien.")

 larrid (lar'id), n. and a. I. n. A member of laryngoplegia (lā-ring-gō-plē'ji-ā), n. [NL., lasso-harness (las'ō-hār'nes), n. the hymenopterous family Larridæ.
 II. a. Having the characters of or belonging to the family Larridæ.
 larrigan (lar'i-gan), n. [Origin unknown.] A boot of undressed leather, worn principally below the larryng or server at a server and a server A workingtackle, consisting of a girth with a long rope attached, used especially to enable a cav-alry-horse to assist draft-horses in moving

lasting-machine (lasting-ma-shen'), n. In shoe-manuf., a machine for drawing, stretching, and bending the upper of a shoe over the last and preparing it to fit and join the sole and heel its repets executibly the appetitude par

last and preparing it to fit and join the sole and heel. It repeats, essentially, the operations performed by hand with a laster, and inserts and drives tacks into the edge of the upper, to hold it in place while the shoe is sewed, wired, or nailed.

lata (lä'tä), n. [Jav. lata, Malay lätah.] A form of 'hysteria' or nervous disturbance common among the people of Java and other parts of Malaysia, in which they echo or imitate in a silly manner the words or actions of other persons and chatter should! other persons and chatter absurdly.

The nervous affliction called latah, to which many Malays are subject, is also a curious trait of the people. The victims of this affliction lose for the time all self-control and all sense of their own identity, imitating the actions of any person who chances to rivet their attention.

Encyc. Brit., XXX. 496.

Encyc. Brit., XXX. 496.

latch² (lach), n. A tanners' pit, sunk below
the general level of the ground, in which ooze
is prepared from tan-bark or other similar
material by leaching it with water. A contraction of latch- or leach-pit.

latch-bolt (lach'bolt), n. Any latch or doorbolt, controlled by a spring and having a
beveled head which, when the door is closed,
is pressed back by meeting the strike and
is thrown out again when the door is shut:
the common form of self-locking bolt.

'latchet² (lach'et), n. [Also latchett; origin

latchet² (lach'et). n. [Also latchett; origin obscure.] A fish, Trigla cuculus, of the family Triglidæ, found on the west coast of Europe and in the Mediterranean Sea.

latching-key (lach ing-ke), n. Naut., the center lasket which prevents the others from

unreaving. latch-needle (lach'ne'dl), n. A knitting-machine needle with a hinged latch or catch

machine needle with a hinged la so arranged as readily to take on and throw off the yarn-loop in the process of knitting: invented by Matthew Townsend, Leicester, England, in 1849.

latch-pin (lach'pin), n. 1. A pin for raising the latch of a door.—

2. A pin which catches some part of a mechanism and holds it loosely; a catch-pin.

late¹, a. 8. Slow or backward in bearing crops, because heavy, clayey, cold, sour, or unfavorably situated as regards the sun, or

situated as regards the sun, or the like: as, late land.

The superfluous water which tended to make the land cold, sour, and "late" is a latch heek; removed, thus making the soil warmer a butt. A shak; and earlier; and by the admission of air a butt. A shak; and earlier; and by the admission of air a butt. A shak; the acidity is slowly overcome.

1'carbook U. S. Dept. Agr., 1901, p. 436.

Latebrus (lat'e-brus), n. [NL., < L. latebra, a hiding-place, < latere, hide.] A subgenus of fishes, belonging to the Cheilodipteridæ, found in the West Indies.

1aten? (lat'ren), v. i and t. [late! + -en.] To

in the West Indies.

laten² (lā'ten), v. i. and t. [late¹ + -en.] To grow late, or to cause to grow late.

Latent light, motions. See *light¹. *motion.

latentize (lā'ten-tīz), v. t.; pret. v | pp. latentized, ppr. latentizing. To remar latent.

G. S. Hall, Adolescence, I. 266.

Lateolabrax (lā'tē-ō-lā'braks), n. [NL., appar. < L. latere, hide, + Gr. λάβραξ, a sea-fish.] A genus of serranoid fishes found on the coasts of China and Japan.

of China and Japan.

of Clina and Japan.

lateral. I. a.—Lateral aberration. See *aberration.
—Lateral chain. Same as *receptor. See also *rismunity, 5.—Lateral masses of the sacrum, lateral organ. See *acrum, *korgan!.—Lateral process. Same as parapophysics.—Lateral secretion, septum, sinus. See *secretion, etc.

II. n. 3. A small ditch or distributary from a main or maining limited ton ditch.

a main or principal irrigation ditch.

The location of the laterals furnishes an opportunity for the irrigator to show his skill. While the land is new, spreading water over it will be a difficult matter. It may be impossible to properly locate the main laterals at first, and supplemental laterals and dikes may have to be constructed.

Yearbook U. S. Dept. Agr., 1900, p. 166.

4. pl. In the pelecypod mollusks, the lateral hinge-teeth, those lying at the sides or ends of the hinge-plate, anterior or posterior to the median or cardinal teeth.—Farm lateral, a small distributing-ditch leading to or across the farms to be irrigated.

lateralia (lat-e-rā'li-ä), n. pl. [NL, neut. pl. of L. lateralis, of the side: see lateral.] In

the capitulum or head of a barnacle, the lateral plates. These take on various shapes and are usually distinctly designated. Thus in the acorn-barnacles, or Balanake, there are rostrolateralia and carinolateralia according to their position near the rostral and carinal

Lateralis accessorius. See *accessorius

lateralize (lat'e-ral-iz), v. t.; pret. and pp. lateralized, ppr. lateralizing. [lateral + -ize.]

To turn to the side; place on one side; make Therapeutic Gazette, Feb. 15, 1903, p. 74.—Lateralized operation. See lateral operation (under lateral) and lithotomy.

lateralizer (lat'e-ral-i-zer), n. A muscle whose action serves to move the jaw sidewise, or laterally. [Rare.]

There can be no doubt that in animals which chew the differential pterygoid acts as a powerful lateraliser the jaw.

Proc. Zool. Soc. London, 1901, II. 665. of the iaw.

laterifioral (lat 'e-ri-flō 'ral), a. [L. latus (later-), side, + flos (flor-), flower, + -all.] In bot., having lateral flowers. Also lateriflorous. laterifiorous (lat-e-rif'lo-rus), a. Same as *laterifloral.

lateripulsion, lateriversion. See *lateropul-

sion, laterorersion.

laterization (lat'e-ri-zā'shon), n. In geol.,
the process of subaërial decay in certain rocks which yields laterite. Geikie, Text-book of

Geol., p. 169. lateromedial (lateromedial), a. Toward the middle of the side.

lateroposition (lat'e-rō-pō-zish'on), n. latus (later-), side, + positio(n-), posit Displacement to one or the other side. position.]

lateropulsion (lat'e-rō-pul'shon), n. [Also lateripulsion; < latus (later-), side, + pulsio(n-). driving.] A constant tendency to lateral

laterotemporal (lat"e-rō-tem"pō-ral), a. [L. latus (later-), side, + E. temporal².] Pertaining to the lower or outer part of the temporal region, according as the skull is compressed or depressed.

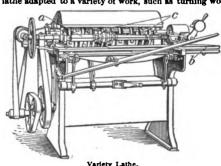
or depressed.

In contrast to the Synapsida the cranium is short; the temporal region is primitively fenestrated by two distinct openings, the supra and latero-temporal fenestre, bounded by the supra and latero-temporal arches, one or both of which may secondarily disappear.

Amer. Nat., Feb., 1904, p. 106.

Laterotemporal arch, the lower of the two bony arches found in such a cranium as that of Hatteria.—
Laterotemporal vacuity or fenestra. See *vacuity. lateroventral (lat'e-rō-ven'tral), a. [L. latus (later-), side, + E. ventral.] Situated low down on the side; toward the belly. Amer. Anthropologist, Oct.-Dec., 1903, p. 634. lath¹, n. 3. In mining, one of the sharpened planks driven in advance of the excavation in sinking specific laces.

planks driven in advance of the excavation in sinking shafts in loose ground. See *forepale, 2. lathe!, n.—Back-geared lathe, a lathe in which the work held between the centers is driven by a reducing train of gears from the cone-pulley, so that a high speed of belt is made to give a powerful turning effect against the cutting-tool. The cone-pulley carries a small gins which drives a large plnion on a shaft at the back of the head-stock, and a second small plnion on this back-gear reduces speed and increases power.—Ball-turning lathe; a form of turning-lathe fitted with a special arrangement of its tool-holder for turning spherical surfaces.—Barrel-turning and -smoothing (or -sanding) lathe, a machine for brushing, ironing, smoothing, and otherwise finishing a hat.—Jewelers' lathe, a small precision-lathe for use on a bench: much used by watch-makers and jewelera.—Lathe test-indicator. See *test-indicator.—Necking- and bulging-lathe, a spinning-lathe which has special attachments for forming the necks of spun-ware vessels and bending them into shapes having a bulge or swell at some point on the sides.—Bilde-rest lathe, a lathe equipped with a silde-rest, an attachment used principally for turning to exact dimensions and reduplicating sizes. See duplex lathe, under lathe!.—Spherical lathe, a lathe which has an attachment for turning balls or spheres.—Variety lathe, a high-speed wood-working lathe adapted to a variety of work, such as turning wood sinking shafts in loose ground. See *forepale, 2.



een live- and dead-centers; δ , table with work to cutters; ϵ , revolving forming-

in intricate forms, as in making ornamental chair-legs, balusters, piano-stool posts, etc. The stock to be turned is placed between centers and is rotated as in any lathe, and by means of a sliding table is made to approach a long horizontal cutter-head, parallel to it, which carries a series of cutters. This cutter-head revolves at a high speed, and when the revolving stock is brought to the cutters it is rapidly turned to a form corresponding to the shape of the blades of the cutters. The cutters take the place of the chisels or other tools of the ordinary turning-lathe. Since the cutters admit of many changes, the machine is capable of doing a great variety of work. Capacity, 8,000 pieces in a day.—V's of a lathe, the V-shaped ways on a lathebed on which the tool-carriage and tail-stock slide.

lathe-bed (lath'bed), n. The upper or main part of the framework of a lathe, on which rest the head- and tail-stock and the toolcarriage.

latheman (lath'man), n.; pl. lathemen (-men). A brass-fluisher who is employed solely in turning at the lathe and not in fitting at the bench or vise. Labour Commission, Glossary. NED

lathe-race (lath'ras), n. In weaving, the track

in which a shuttle runs.

lather-fungus (laTH'er-fung'gus), n. Any of
the basidiomycetous fungi belonging to the genus Clathrus.

genus Clathrus.

lathery (lath'er-i), a. [lather¹ + -y¹.] 1.
Covered with soapy lather.—2. Covered with
sweaty foam, as a horse.—3. Resembling
lather; figuratively, unsubstantial, like foam. lathe-standard (lawH'stan'dard), n. A leg or A-frame used as a support for a lathe-bed. See cut under lathe.

lathing-saw (lath'ing-sa), n. A saw for cutting metal laths.
lathing-staff (lath'ing-staf), n. A lathing-staff hatchet; a hammer having a cutting-edge for

trimming laths.

lath-rending (lath'ren'ding), n. The process of making laths by splitting.

lathyric (la-thir'ik), a. [Lathyrus + -ic.]

Producing lathyrism (which see).

lathyrin (lath'i-rin), n. [Lathyrus + -in².]
A yellowish compound found in the seeds of

Lathyrus sylvestris.

latifundian (lat-i-fun'di-an), a. [L. latifundium, a great estate, + -an.] Pertaining to or possessed of great estates or a great estate. See latifundium

latigo (lä'tē-gō), n. [Sp. látigo.] A strap for tightening a saddle-girth.

(lat-i-lam'i-nä), n.; pl. latilaminæ (-nē). [L. latus, broad, + lamina, a thin (-nē). [L. latus, broad, + lamina, a thin plate.] In paleon., a term denoting one of the thick concentric strata of the hydrocoralline Stromatoporoidea, in distinction from the thinner laminæ which are formed out of processes

given off horizontally by radial pillars.

latimeandroid (lat'i-mē-an'droid), n. [Latimeandra + -oid.] A coral of the genus Latimeandra, of the family Thamasteriidæ and group Madreporaria fungida.

meanara, of the family inamasterence and group Madreporaria fungida.

Latin. I. a.—Latin school. See ★school.—Latin square, Latin square problem. See ★squarel.—Latin union. See Latin. By the treaty (1865) gold coins and a silver coin based upon the five-franc piece, of uniform weight and fineness, were authorized, and it was provided that such coins should be of unlimited legal tender in the countries issuing them, and that these coins issued by any one of the states should be receivable in payment of public dues in all of the signatory states. It was provided that they should be regal tender to the extent of fifty francs in any one payment in the issuing state. Each state agreed to accept, in payment of public dues, such coins issued by the other states in payments not exceeding one hundred francs, while the issuing states were required to receive these coins in any amounts. By an agreement of 1878, renewed in 1875 and 1876, the quantities of silver to be coined in the several states were limited. In 1877 the coinage of the five-franc piece practically ceased, and gold became the monetary standard, although the silver five-franc pieces still retain their legal-tender quality.

II. n.—False Latin, Latin not academically correct; hence, any blunder, as an error in good breeding.

Our captain . . . answered that he would not (put on his hat before the king), that they should not cause him

hence, any blunder, as an error in good preeding.

Our captain . . . answered that he would not [put on his hat before the king], that they should not cause him to commit that false Latine.

G. Havers, tr. of P. della Valle, Travels in E. India, p. [186. N. E. D.

Latin-American (lat'in-a-mer'i-kan), a. and latitudinary (lat-i-tū'di-nā-ri), a. [NL. latin. I. a. Of or pertaining to those peoples of latitudo, latitudo, latitudo, latitudo.] n. I. a. Of or pertaining to those peoples of America that speak Romance languages: particularly applied to the nations that speak Spanish or Portuguese.

II. n. A native of a Latin-American nation.

"the prevalent Latinic character of the vo-cabulary," J. A. H. Murray, in N. E. D. Latinity, n. 2. The condition of being a Roman citizen.

Latinizer (lat'i-ni-zer), n. 1. One who translates into Latin; one who makes conformable to the Latin Church; one who habitually uses Latin forms or idioms.—2. A Latin scholar; a Latinist.

atiplantar (lat-i-plan'tär), a. [L. latus, broad, + planta, sole, + -ar3.] In ornith., having the tarsus rounded behind: contrasted latiplantar with the laminiplantar tarsus of most birds. [Rare

[tare.]

latisellate (lat-i-sel'āt), a. [L. latus, broad, + sellu, saddle, + -ate¹.] Having a broad saddle: used of the first or earliest suture in saddle: used of the first or earliest suture in ammonoid cephalopods, and contrasted with *asellate and *angustisellate. The latisellate condition is not a primitive but a secondary stage in the phylogeny of the ammonoids, and does not appear in the earliest representatives of the group.

latisept (lat'i-sept), a. [L. latus, broad, + sæptum, septum, partition.] Same as *latiseptate.

latiseptal (lat-i-sep'tal), a. [latisept + -al1.] Same as *latiseptate.

latiseptate (lat-i-sep'tat), a. [latisept + -ate1.]

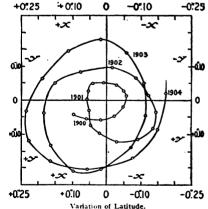
In bot., having broad partitions, as in the silicles of many cruciferous plants.

latite (lā'tīt), n. [Latium, an ancient province of Italy, + -ite².] In petrog., a name given by Ransome (1898) to volcanic rocks intermediate in composition between trachyte and andesite:

Ransome (1898) to volcanic rocks intermediate in composition between trachyte and andesite: the lava equivalent of monzonite. They are characterized by the presence of orthoclase and lime-soda feldspar in nearly equal amounts, with subordinate ferromagnesian minerals. The term embraces trachyandesite, trachydolerite, ciminite, and vulsinite.

latitude, n.—Apparent celestial latitude, the apparent angular distance of a heavenly body from the ecliptic as viewed by an observer, and uncorrected for parallax, etc.—Geodetic latitude, latitude as determined by astronomical observations corrected for station error. See *error. The correction seldom exceeds a few seconds.

—Geographical latitude, the angle between the polar axis of the earth and the direction of a radius drawn to the earth's center: the geodetic or geocentric latitude, as distinguished from the astronomical.—Kronocentric latitude, distance on the planet Saturn north or south of its equator.—Magnetic latitude, the angular distance north or south of an imaginary line passing around the earth midway between the magnetic poles.—Mean latitude. Same as middle latitude (which see, under latitude.)—Meridional difference of longitude represents to the departure.—Variation of latitude, a minute change in the latitudes of places on the earth's surface, discovered at Berlin in 1889 and since fully verified. It never exceeds 0.3", and appears to be made up of two superposed periodic variations with periods of one year and of fourteen months respectively. It is caused by a motion of the earth's axis within the globe, in consequence of which the pole of rotation wanders in an apparently irregular curve around its mean position, never, however, receding from it by more than about 30 feet. See cut. This motion causes corresponding changes of



Course of the pole of the earth from 1900 to 1904. (Albrecht.)

longitude as well as of latitude. It is supposed to be mainly the result of periodical changes in the distribu-tion of matter on the earth's surface, due to the seasons and other causes; but the exact explanation is still ob-

latitudinarian.

latomy (lat'ō-mi), n. [Gr. λατομία, a stone-quarry, ⟨λατόμος, a stone-cutter, ⟨λᾶς, stone, + -τομος, ⟨ταμείν, cut.] A stone-quarry: applied especially to one of those of ancient Syracuse. Latinic (la-tin'ik), a. [Latin + -ic.] 1. Latin in a political sense; of or pertaining to the latrentic (la-tro'tik), a. Same as latrentical. Latin nations, whether ancient or modern.— latront (la'tron), n. [L. latro(n-), a robber. 2. Latin in a large sense; largely Latin: as, Compare ladrone.] A brigand; a robber.

latronage + (la'tron-aj), n. [latron + -age.]

Brigandage; robbery. latruncular (la-trung'kū-lär), a. [L. latrun

culus, a pawn at a game resembling chess, +
-ar³.] Relating to or like the pawns in a
game resembling chess.

latten, n. 3. A sheet-iron plate prepared for
tinning, and ranging in thickness from .020 to
.016 of an inch. Phillips and Bauerman, Elemehts of Metallurgy, p. 340.—White latten thin sheet-metal of the bronze class, usually in rolled plates, made of an alloy of copper, tin, and zinc: distinguished from black latten, which is a true brass of copper and

lattermost (lat'er-most), a. Last; latest. lattice, n. 4. In textile-manuf., an apron or a conveyer made of laths or slats, and designed to carry material into a machine or from one machine to another.—5. In math., a net made of straight lines, vertical and horizontal, and inclosing rectangular compartments.

lattice-apron (lat'is-ā'prun), n. A flexible feed-table constructed of narrow slats, employed on textile-machinery to carry the raw

material into the machine; a lattice.

lattice-bar (lat'is-bar), n. Instructural work, particularly bridge work, one of the slender diagonal members which connect the two opposite parallel members or flanges of a structural iron or steel beam, column, or strut, and which are arranged in two or more distinct, continuare arranged in two or more distinct, continuous, zigzag lines, the bars of one line crossing laughsome (läf'sum), a. [laugh + -some.] those of the other: in distinction from lacing-laught (läf), a. [laugh + -y¹.] Feeling like line, no two members of which cross one another.

lattice-beam (lat'is-bēm), n. A beam, generally of structural iron or steel, composed of a top and a bottom flange, commonly of channel.

lauia (lä-c-6'z) n. [Hawaiian] A mixture of lauren (lâ'rēn). n. A mixture of lauren (lâ'rēn).

attice-beam (lat'is-bēm), n. A beam, generally of structural iron or steel, composed of a top and a bottom flange, commonly of channel-lauia ($\ddot{a} - \ddot{b} = \ddot{c} \ddot{a}$), n. [Hawaiian.] A native irons, united on each side by diagonal latticing. lattice-beam (lat'is-bēm), n.

See *lattice-bar.

lattice-frame (lat'is-fram), n. A frame, resembling a deep and narrow lattice-girder, composed of two parallel members, frequently T-irons, united by a system of diagonal lat-

lattice-girder, n.—Half-lattice girder, a girder or truss in which the tension-bars run only one way across the panels. They are symmetrical about the center, as in a Warren truss, and there is a perpendicular compression-member at the end of each panel.

lattice-stitch (lat'is-stich), n. In needlework, an embroidery stitch formed of straight lines crossing and recrossing.

latticing (lat'is-ing), n. In structural work, particularly bridge work, the system of slender diagonal members which connect the two opposite parallel members or flanges of a structural iron or steel beam, column, or strut, and which are arranged in two or more distinct, continuous, zigzag lines, the bars of one line crossing those of the other: in distinction from lacing, in which the adjacent bars form a single consecutive, zigzag line, no two bars crossing one another.

latus 1 , n.—Latus rectum. (c) The chord through the focus of a conic perpendicular to the transverse axis.

latus² (lā'tus), n. [ML. latus, Gr. λάτος.] A serranoid fish, Lates niloticus, found in the Nile. It attains a large size and is used for food

laudanidine (lâ-dan'i-din), n. [laudan-um + $-id^*+-ine^2$.] A colorless alkaloid, $C_{20}H_{25}O_4N$, contained in opium. It forms crystals melting

laudanine (lå'da-nin), n. [laudan-um + -ine².]
A colorless alkaloid, HOC₁₇H₁₅N(OCH₃)₃,
contained in opium. It crystallizes in small
trimetric prisms melting at 166° C.

laudanosine (lå-dan'ō-sin), n. [laudan-um + -ose + -ine².] A colorless, slightly bitter dextrorotatory alkaloid, C₁₇H₁₅N(OCH₃)₄, contained in opium. It crystallizes in needles melting at 89° C.

laudatio (la-da'shio), n. [L.: see laudation.] In law, evidence tending to prove the good character of one accused.

laudator, n. 27. In old law: (b) A witness to the good character of an accused person.

Laudianism (lâ'di-an-izm), n. Same as *Lau-

laudification (lâ'di-fi-kā'shon), n. [NL. "lau-dificatio(n-), \(\laudificare, \text{praise}, \(\laudificare, \text{praise}, \) laud (laud-), praise, + facere, make.] The act of praising or extolling with praise.

Laudism (la'dizm), n. The policy of William Laud, Archbishop of Canterbury in the reign of Charles I. of England. He sought to restore the

Church of England to what he regarded as its primitive doctrine and worship, and to this end vigorously persecuted dissenters and nonconformists.

laudist¹ (lâ'dist), n. [laud + ist.] One who writes lauds or ascriptions of praise.

Laudist² (lâ'dist), n. [Laud (see def.) + -ist.] One who supported the policy of Archbishop Laud. See Laudian and *Laudism.

Laugerian (10-16'ri-an), a. [Laugeria (see def.) + -an.] Of Laugerie-Basse, in France, or of a prehistoric race represented by one skeleton of a man and two skulls of women there found belonging to the later paleolithic (Magdalenian) period, and characterized by thick, dolichocephalic skulls.

thick, dolichocephalic skulls.

After tracing the steps in the industrial evolution of the Paleolithic period, the authors [Gabriel and Adrien de Mortillet] pass in review all the discoveries of fossil human bones supposed to belong to the same period. The existence of two races is recognized—an earlier, referred to the first three epochs of the Paleolithic period and called Neanderthal, and a later, referred to the last three epochs of the same period and named Laugerian, or race of Laugerle-Basse. The Laugerian race is derived from the Neanderthal without intermixture from any foreign source. The transition may be traced in the human remains from Arcy, Eguisheim, Marcilly and Bréchamps.

Science, March 1, 1901, p. 344.

Laugerie-Chancelade race. See *race3.

laughful (läf'fül), a. [laugh + -ful.] Full of laughter or merriment.

laughing-falcon (lä'fing-fa'kn), n. See *fal.

laughing-falcon (lä'fing-få'kn), n. See *fal-

genus Scarus; a parrot-fish.

launch, n.— Naphtha-fuel launch, a launch which generates steam in its boiler for motive power and uses naphtha for firing.

launching-cleat (län'ching-klēt), n. A wooden cleat, used either in dry-dock or in the launching of a vessel, secured to the ship in such a manner that it will catch the head of the

launching-planks (län'ching-plangks), n. pl. A set of planks forming the platform on each side of the ship on which the bilgeways slide in the launching of the vessel.

launching-ribband (län'ching-rib'band), n.

See launching-ways.

launder, n.—Spinning launder, a launder which revolves; a device composed of one or more troughs, arranged to be revolved. *Phillips and Bauerman*, Elements of Metallurgy, p. 854.

of Metallurgy, p. 854.

laundry-net (län'dri-net), n. A net used to held fabrics while they are cleaned by boiling.

laundrywoman (län'dri-wum'an), n. A woman employed in a laundry; a läundress.

laurdalite (lâr'da-līt), n. [Laurdal, Norway, + -ite².] A coarse-grained rock composed of soda-orthoclase or soda-microcline, or cryptoperthite, with nephelite, a small amount of lepidomelane, and augite, rarely olivin. Brögger, 1894.

laureate, n. 3. In some educational institu-tions in the United States, a degree given to women instead of 'Bachelor' and 'Master': as, Laureate of Science, etc.—4. In numis., same as laurel, 5.

same as laurel, 5.

laurel, n. 3. (b) In Porto Rico, Mexico, and Central America, a name applied to many species of Ocotea, Damburneya, and allied genera of Lauraceæ; especially, in Porto Rico, to Ocotea faniculacea, 0. foribunda, Damburneya Sintenisii (Nectandra Sintenisii of Mez), and D. Krugii (Nectandra Krugii of Mez), and D. Havandrian laurel, Calophyllum Inophyllum. See domba, tamanu and Abitanhol.—Black laurel, the leamphor-tree, Cinnamonum Camphora.—Deer-laurel, the great laurel or rose-bay, Rhadodendron maximum.—Diamond-leaf laurel, an evergreen Australian tree, Pittosporum rhombifolium. See Pittosporum.—Dodder laurel. Same as Adog-hobble.—Dwarf laurel, the sheep-laurel. Same as Adog-hobble.—Dwarf laurel, the sheep-laurel, Kalmia angustifolia.—Plorida laurel, and Fittosporum.—Horse-laurel, the great laurel.—In the sweetleaf, Symplocos tinctoria.—Hairy laurel, and Pittosporum.—Horse-laurel, the great laurel.—Litsea glaucescens and L. parvifolia, aromatic shrubs belonging to the Lauraceæ and called laurie by the Mexican. The leaves are used as a flavoring for certain dishes and are taken as a tea, sweetened with brown sugar, for medicinal purposes and as a beverage. They

are always found for sale in the markets of the larger cities of Mexico.—Moreton Bay laurel, Cryptocarya australia, a tree of the laurel family. Also called gray sassafras.—Native laurel, in Australia: (a) The Victorian laurel, Pittosporum undulatum. Also called mock-orange. (b) A tree of the ginseng family, Polysicas elegans, yielding a light, soft wood. Also called white sycamore.—New Zealand laurel, Laurelia None-Zeelandies, a large tree of the family Monimiaces, having soft, yellowish wood, which is used for boat-building.—Bose-laurel. (a) The great laurel. (b) The American laurel. (c) The oleander.—Sassafras-laurel, the California laurel, Umbellularia Californica.—Small laurel. (a) The American laurel. (b) The laurel-magnolia, Magnolia Virginiana.—Sweet laurel, the poison-bay, Illicium Floridanum.—To repose or rest on one's laurels, to cease striving for a while and enjoy the honors won.—To retire on one's laurels, to cease stroying for a while and enjoy the honors won.—To retire on one's laurel, Pittosporum undulatum. Also called native laurel. See Pittosporum and *mock-orange, 3.—White laurel, Cryptocarya glaucescens, one of the trees called beach in Australia. See *beechl, 2, and black *sassafras.—Winter laurel, the Carolina cherry-laurel, Prusus Carolina.

laurel (lå rel), v. t.; pret. and pp. laureled, laurelled, ppr. laureling, laurelling. [laurel, n.] To erown with, or as with, laurel as a

Laureled by some exclusive society of select spirits.

Science, Feb. 5, 1904, p. 232.

laurel-butter (lâ'rel-but'er), n. Same as

laurel-camphor (lâ'rel-kam'for), n. Same as *laurinol.

Magnolia.

laurene (lâ'rēn), n. A mixture of hydrocarbons, chiefly ethyl xylenes, C₂H₅C₆H₃-(CH₃)₂, formed by the distillation of Japan camphor with zinc chlorid.

Laurentia (lâ-ren'shiä), n. [See Laurentian.]

The land area of Archæan rocks around whose shores the Paleozoic sediments were deposited. See Laurentian. Amer. Geol., Sept., 1903, p. 148.

Laurentide slacier. See *alacier.

Laurentide glacier. See *glacier. Laurer's canal. See *canal. laurestinus (la-res-ti'nus), n. Same as laurus-

lauretin (lâ're-tin), n. [L. laurus, laurel, +

lauretin (lå're-tin), n. [L. laurus, laurel, + -et- + -in².] A compound said to occur in bayberries, the fruit of Laurus nobilis.

Lauretta whitefish. See *whitefish.

lauric (lå'rik), a. [L. laurus, laurel, + -ic.]

Noting an acid, a colorless compound, C₁₁H₂₅COOH, homologous with acetic acid. It is found, in combination with glycerol, in bayberries, the fruit of Laurus nobilis, in Pichurim beans, in croton-oll, in spermaceti, and in cocoanut-oil. It crystallizes in tufts of silky needles, melts at 43.6° C., and bolls at 225° C. under 100 millimeters pressure. Also called dodecatoic acid.

— Lauricester. See **ester.

- Laurioseter. See wester.

laurinol (lá'ri-nol), n. [L. laurus, laurel, +
-in + -ol.] A colorless, odorless, indifferent
compound, C₂₂H₃₀O₃, obtained from the wood
of the bay-tree, Laurus nobilis. It crystallizes
in prisms. Also called laurel-camphor.

lauristic (lâ-ris'tik), a. [L. laurus, laurel, + -ist-ic.] Same as *lauric.
laurolene (lâ'rō-lēn), n. [L. laurus, laurel, + -ol + -ene.] À hydrocarbon, C₈H₁₄, formed by the distillation of camphanic acid. It is probably a 1, 1-dimethylcyclohexene.

laurvikite (lâr'vik-īt), n. [Laurvik, Norway, lavational (lā-vā'shon-al), a. [lavation $+ -al^1$.] $+ -ite^2$.] A coarse-grained syenite composed Pertaining to or of the nature of washing or of flattened feldspars with a somewhat rhombic cross-section which are microperthite or sodamicrocline. There are, besides, small amounts of sodalite and nephelite in some varieties, and variable amounts of ferromagnesian minerals—pyroxene, lepidomelane, and barkevikitic hornblende. *Brögger*, 1894.

laurylene (lå'ri-lën), n. [L. laurus, laurel, + -yl + -ene.] A colorless levorotatory terpene, C₁₀H₁₆, contained in bay-oil. It boils at 164° C.

lautarite (lâ'ta-rit), n. [The Oficina Lautaro, owner of the deposits, + -ite2.] Calcium iodate, Ca(IO₃)₂, occurring in from colorless to yellow monoclinic crystals: found in the

sodium-nitrate deposits of Atscama, Chile.

lautite (lou'tīt), n. [Lauta (see def.) + -ite².] A

metallic mineral containing copper, arsenic,
and sulphur, but of doubtful homogeneity:
found at Lauta, near Marienberg, Saxony.

lautverschiebung (lout'fer-shē-böng), n. [G., \langle laut, sound, + verschiebung, shifting.] In philol., 'shifting of sounds': applied to the composed of lava.

Notwithstanding the plenteous fall of rain and snow, there is scarcely any water to be found in the lavaunderwent in the Teutonic languages, as if each consonant were shifted forward one degree in its class. See Grimm's law, under law1.

A later shifting, sometimes called the second lave2 (lāv), n. [lave2, v.] 1. The act of washgree in its class. See Grimm's law, under law1.

A later shifting, sometimes called the second lavender2, n.—Compound tincture of lavender, a lauterschiebung, appears in the Old High German.

lauwine, n. See *lawine. Byron.

Lauzon (lō-zon'), n. [Lauzon, Quebec.] In geol., a term introduced by Logan for a division of the rocks near Quebec, in the Quebec drying smells like new-made hay.

lavendol (lav'en-dol), n. [lavend(er) + -ol.]

lauwine, n. See *lawine. Byron.

Lauzon (lō-zon'), n. [Lauzon, Quebec.] In geol., a term introduced by Logan for a division of the rocks near Quebec, in the Quebec group, the age of which has been shown to extend from the Cambrian to the close of the Lower Silurian.

lava, n.—Block lava, in geol., a structure sometimes observed in lava-streams, where the surface zone of the flow has been shattered by explosive escape of gases from the cooling rock.—Ropy lava, lava with a fluted or corrugated surface due to flowing while viscous and thick.

lavabo, n. 4. The psalm in the mass service which the priest recites at the washing of his

lavabo-dish (lā-vā'bō-dish), n. A shallow basin used for the ablution of the priest's hands in the mass service.

lavabrum (lā-vā'brum), n. [L.] Same as

*labrum

*labrum².

lava-caldron (lä'vä-kâl'dron), n. An open, pit-like crater which contains molten lava. Geikie, Text-book of Geol., p. 329.

lava-cone (lä'vä-kōn), n. In geol., a volcanic cone built up of successive flows of lava rather than of the fragmental products of explosive outbreaks. Opposed to tuff-cone.

Lava-cones, that is, volcanos with a slight angle of inclination, and built up entirely of lava.

Geog. Jour. (R. G. S.), XIII. 504.

lavacret, n. [L. lavacrum, < lavare, wash.] In phrases referring to baptism, a font; a bath: as, the lavacre of spiritual regeneration.

lavadero (lä-vä-dā'rō), n. [Sp., < lavar, < L. lavare, wash.] Apparatus for washing silver amalgam from ore. Phillips and Bauerman, Elements of Metallurgy, p. 744. [Mexico.]

lava-field (lä'vä-fēld), n. A consolidated lava flow covering a considerable area.

The most extensive lava-field in the island. Geog. Jour. (R. G. S.), XIII. 501.

lava-lake (lä'vä-lāk), n. An expanse of molten lava, in a crater, so extensive as to be called a lake. The Hawaiian volcanoes afford the best examples. Nature, Sept. 4, 1902,

p. 441. lavallière (lä-val-yãr'), n. [F., from a personal name.] A pendent ornament consisting of or set with one, two, or three gems, generally attached to a thin chain.

iava-streak (lä'vä-strēk), n. A dike of lava which is contrasted in appearance with its inclosing walls.

lava-stream (lä'vä-strēm), n. A flow of lava while it is still molten; also, congealed and cold lava which originally flowed in a stream.

These lava-streams, which the Icelanders call apal-hraun, are relatively narrow with high edges, looking, when viewed from a distance, like fences or ridges on flat land. Geog. Jour. (R. G. S.), XIII. 507.

lava-terrace (lä'vä-ter"ās), n. One of the escarpments of lava-sheets which surround the pits of molten lava in some volcanic craters, such as those of the Hawaiian Islands. Geikie, Text-book of Geol., p. 329.

lavation.

lavatorial (lav-a-tō'ri-al), a. [L. lavatorium, a lavatory, +-al¹.] Pertaining to a lavatory or to washing. [Recent.] lava-torrent (la'va-tor'ent), n. A torrential flow of lava, whether molten or congealed.

Large quantities of sait, especially sal ammoniac, are often deposited on the lava-torrents during eruptions in Iceland.

Geog. Jour. (R. G. S.), XIII. 510.

4. The ceremonial washing of lavatory, n. 4. The ceremonial washing of the hands of the priest in the celebration of the holy communion.—5. In plumbing, a permanent wash-bowl of marble, enameled iron, or porcelain, fitted with hot and cold-water pipes, a waste-pipe, and other conveniences and fixtures. It may be affixed to a wall or and fixtures. It may be amade to a number stand upon the floor.—6. A room, especially in a hotel or public building, provided with means for washing the hands and face, and often including a water-closet.

lava-waste (lä 'vä - wāst), n. A barren area

drying smells like new-made hay.

lavendol (lav'en-dol), n. [lavend(er) + -ol.]
A colorless liquid, C₁₀H₁₈O, contained in lavender-oil. It boils at 197° C.

lavendulan (la-ven'dū-lan), n. [ML. laven-dula, lavender, + -an.] A hydrated arseniate of copper, cobalt, and nickel occurring in lavender-blue amorphous masses: found with cobalt ores in Saxony and elsewhere

with cobalt ores in Saxony and elsewhere. lavendulite (la-ven'dū-līt), n. [ML. lavendula, lavender, + -ite².] Same as *lavendu-

lavenite (la'ven-īt), n. [Also laavenite, loven-ite; named after the island of Laven, in southern Norway.] A silicate and zirconate of manganese, iron, calcium, sodium, and other elements occurring in from yellow to brown monoclinic crystals. It is related to pyroxene

monoclinic crystals. It is related to pyroxene and, more closely, to woehlerite.

laver¹, n. 3. Figuratively, the baptismal font; the spiritual regeneration of baptism; any cleansing of the spirit.

Laverania (la-vē-rā'ni-ā), n. [NL.] A genus of sporozoans of the order Hæmosporidia, one species of which, L. malariæ, is parasitic in the red corpuscles of human blood and is the cause of pernicious malaria. Also and is the cause of pernicious malaria. Also Hæmamæba. See *Hæmamæba and *malaria. Grassi et Feletti, 1890.—Laverania danilewsky, a protozoan blood-parasite of pigeons and certain other birds.—Laverania ranarum, a protozoan blood-parasite of the frog.

laverick (lav'e-rik), n. [Origin obscure.] In the western United States, a contemptuous term for a greenhorn or stranger; a tender-

lavinia (la-vin'i-ë), n. [NL.] 1. An American nymphalid butterfly, Victorina steneles, formerly known as V. lavinia. It occurs in Florida and South America.—2. [cap.] A genus of minnows inhabiting the coast streams of California.

lavoisium (la-voi'zi-um), n. [NL., named after Lavoisier, a French chemist.] A supposed new chemical element announced by Prat in 1877 as occurring in pyrite. There is no confirmation of its existence.

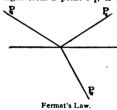
no confirmation of its existence.

lavrovite (lav'rō-vīt), n. [G. lawrowit (1867), named after N. von Lavrov, a Russian.] A variety of pyroxene colored green by vanadium: found near Lake Baikal in Siberia.

lawl, n.—Albite law. See *albite.—Antitrust laws, a name given to statutes enacted for the purpose of regulating trusts or vast combinations of capital.—Arago's law of polarisation. See *polarization.—Baer's law. (b) The rule that rivers flowing northward or southward form deposits and sand-banks most frequently on the right-hand side of the stream owing to the influence of the rotation of the earth on the moving water: a rule deduced by K. E. von Baer, in 1800, for the rivers of Russia, and rather hastily generalized for the whole northern hemisphere.—Baimer's law, in spectroscopy, the law that the bright lines in the spectra of metals occur in series, the frequencies of vibration being in simple numerical relation to one another. The wave-lengths of lines of the visible spectrum of hydrogen, for example, may be

computed by multiplying a constant (h = 3645.6) by the series of coefficients, % 1642.2451, 3643.—Baric law of the wind. See *wind2.—Bayeno law. See Baceno twin, under twin1.—Biogenetic law, the doctrine or opinion that the ancestral history of organisms is recapitulated in their development as individuals. See *recapitulation, is.—Biot-Sayart law, the law established by Biot and Sayart (1820) for the magnetic force due to an electric current flowing through a straight linear conductor of finite length. It is given by the formula H = 21, in which

Is the current, r the distance from the conductor, and H the force.—Brazil law. See *kurin! 3.— Brewstar's law, in optice, the law that the tangent of the angle of complete polarization for a substance is equal to the index of refraction of that substance.—Bronn's law, Same as Broun's rule. See *rule!.—Buchan's law, Same as Buchan's rule. See *rule!.—Buchan's law, Same as Buchan's rule. See *rule!.—Buchan's law, Same as Buchan's rule. See *rule!.—Buchan's law, In meleor, the law announced by Buys Ballot, in 1890, that "if on any monting there is a difference between the barometrical readings at any two stations, a wind will blow on that day in the neighborhood of the line joining those stations which will be inclined to that line at an angle of 80' or theresbouts and will have the station where the reading is lowest on its left hand side." See Buchan's *rule.—Carlishad! Rw. See Carleshad! twin, under twin!—Carrington's law of solar rotation, the law of the 'equatorial acceleration, the explanation of which is still uncertain. It is generally supposed from the researches of Sampson and Wilsing to be a slowly dying survival from past conditions, but Ebert considers that he has shown it to be a necessary consequence of the sun's radiation of heat.—Constitutional law. See *constitutional.—Cosion law. See Lambert's law of *cosines.—CR law, Same as *Ketinia* *klau.—Conlomb's law, in elect., the law that the force with which two electrostatic charges attract (or repel) each other is inversely proportional to the sensor of a strength my and my respectively attract (or repel) each other is inversely proportional to the distance between them is also known as *Coulomb's law.—The Theorem's law, in place and the proportion of the sensor in the product my, my, and in the sensor here is a



$$\phi\left(x\right) = \sum_{1}^{\infty} i \ \mathbf{A}_{i} \cos \frac{2i\pi x}{p} + \sum_{1}^{\infty} i \ \mathbf{B}_{i} \sin \frac{2i\pi x}{p}.$$

(b) In acoustics, the law that "any vibrational motion of the air in the entrance to the ear, corresponding to a musical tone, may be always, and for each case only in a single way, exhibited as the sum of a number of simple vibrational motions, corresponding to the partials of this musical tone." H. von Helmholtz (trans.), Sensations of Tone, p. 34.—Fourier's law of conduction, the law that the quantity of heat w, passing across a given area, q, within a conducting substance is $w = qk \frac{dx}{dt}$, where

k is the conductivity of the subtrance and $\frac{dx}{dt}$ is the temperature gradient.—Fresncl-Arago law, the law that rays polarized at right angles to each other do not interfere when brought into the same plane of polarization, provided that they come from an unpolarized ray. Such rays, if they come from a polarized ray, interfere when brought to the same plane of polarization.—Fres-

nel's law, the law that in crystals the velocities of the two light-waves are proportional to the largest and smaller tradit vectors of the oval section of the wave-surface, made by a plane through the center of the surface and parallel to the wave-four.—Froudes' law, in new of comestrical and dynamic similitude, but independently derived by W. Froude from the study of resistance of ship-models towed in an experimental model basin. In the statement of this law, considering a model and a vessel of identical form but of different dimensions, the crresponding speeds of the model and the vessel are in the same ratio as the square roots of the homologous high wave-making resistances of the model and of the vessel are determined by appropriate calculations at the corresponding speeds. From the total measured resistances of the model and of the vessel are determined by appropriate calculations at the corresponding speeds are not the total measured resistances of the model and of the resistance of the model and of the vessel are determined by appropriate calculations at the corresponding of resistance (which see, under *keure) of the full-sized ship of resistance (which see, under *keure) of the full-sized ship of resistance (which see, under *keure) of the full-sized ship of the study of the seed of is the sum of two numbers, one of which depends solely on the cation and the other of which depends solely on the anion; or, that the velocity with which a given ion travels is constant for a given solvent and a given electromotive force, and does not depend upon the nature of the other ions which are present in the solution.—KR (or CR) law. Same as Kelvin's *law.—Kundt's law, the

law that, in anomalous dispersion, the index of refraction is abnormally increased as we approach an absorption-band from the infra side or side of greater wave-lengths and abnormally diminished as we approach the band from the ultra side.—Lane's law, the apparently paradoxical law that a gaseous sphere contracting under its own central gravity on account of the radiation of heat to outer space will rise in temperature as long as it remains purely gaseous, that is, so long as it does not become partially liquid or solid, or so dense that the laws of Boyle and Charles no longer hold good.—Law of adaptation. See **adaptation.—Law of aggregation. See **adaptation.—Law of aggregation. See **adaptation.—Law of comparison. Same as Froude's **law.—Law of constant proportion, in chem., the general fact that any particular compound substance in a pure state consists invariably of the same constituents united in the same proportion by weight.—Law of Delaroche and Berard, in phys. chem., the law that for all elementary distomic gases approximately in the perfect state, and for all gaseous compounds formed without condensation and approximately in the perfect state, the product of the molecular weight and the specific tate constant pressure has the same value.—Law of diffusion. See **diffusion.—Law of discrimination.

Same as Weber's law (which see, under robability, 2.—Law of equilibration. Bee **equilibration.—Law of fiscrimination.—In the perfect state, the product of the index of refraction of liquids and their density. The law is expressed by the formula

**The constant probability curve, under probability, 2.—Law of Gladstone and Dale, a law for the relation between the index of refraction of liquids and their density. The law is expressed by the formula

n-1= const. :

m-1

d = const;

where n is the index of refraction and d the density of the liquid.—Law of greatest gain. See *gain!.—Law of great numbers, the law that if a great number of elements, each independently varying according to almost any law, are added, their sum will in general vary according to the ordinary law of error.—Law of Guldberg and Waage. Same as *law of mass action.—Law of integration, the law that a social population tends to increase by excess of births over deaths, by excess of immigration over emigration, or by annexation of neighboring peoples, according to some relation of its culture and standard of living to its surplus energy. Giddings, Prin. of Sociol., p. 370.—Law of interest, in psychol., the law or principle that those elements of a past experience are the most effective for recall which at the time of the experience received the greatest share of attention or aroused the highest degree of interest.

The influence of emotional states must be stated as a

The influence of emotional states must be stated as a principal, but not an exclusive cause. It is summed up in what Shadworth Hodgson has called the Law of Interest.

Ribot (trans.), Psychol. of Emotions, p. 174.

est. Ribot (trans.), Psychol. of Emotions, p. 174.

Law of inverse squares, the law governing the relation between the intensity of an effect, which emanates from a center and is transmitted equally in all directions, and the distance from the source. The intensity in such cases is inversely proportional to the square of the distance. The intensity of sound, of light, and of every form of radiation, when transmitted in isotropic media. is determined by the law of inverse squares. The gravitational attraction of two masses, the electric attraction or repulsion of two charged bodies, and the attraction or repulsion of two magnetic poles follow the same law.—Law of least action. Same as principle of least action (which see, under action).—Law of likeness, in psychol., the principle of association by similarity.

This . . discussion . . has led to the classification of the associations of memory, and two laws have been formulated: the one called the law of likeness, and the other the law of contiguity.

formulated: the one canes.
other the law of contiguity.

J. W. Powell, Truth and Error, p. 303.

other the law of contiguity.

J. W. Powell, Truth and Error, p. 303.

Law of Malus, in optics, the law that when a beam of light, polarized by reflection, falls upon a second surface at the polarizing angle the intensity of the beam after the second reflection is proportional to the square of the cosine of the angle between the two planes of reflection. The law that "an orthotomic system of rays remains orthotomic after any number of reflections and refractions" (Drude's "Theory of Optics," p. 12) is also sometimes termed the law of Malus.—Law of mass action. See *action. Also called law of Guldberg and Waage.

Law of mental growth. See *mentall.—Law of migration.

See *migration.—Law of octaves, in chem., the generalized fact pointed out by Newlands in 1864 that if the elements are arranged in the order of their atomic weights, each member of the list presents a close analogy in properties with the eighth preceding and the eighth succeeding it. This a few years later in the hands of Mendeléjeff and Lothar Meyer was developed into the now generally recognized periodic law.—Law of parallelism, a varying degree of probability that similar stages of human culture, or like institutions, in different parts of the world have sprung from like conditions rather than from any historic intercourse of now separated communities.—Law of paraimony. (b) The law that conscious beings try to attain a maximum of satisfaction with a minimum of effort or pain.

But the fundamental law of everything psychic, and especially of everything that is affected by intelligence, is the law of paraimony.

Ward, Pure Sociol., p. 341.

Law of periodicity, the universal law of rhythm (Herser Spencer "First Principles") in its organic and social

is the law of parsimony. Ward, Pure Sociol., p. 341.

Law of periodicity, the universal law of rhythm (Herbert Spencer, "First Principles") in its organic and social manifestations.—Law of possession, in psychol., the principle that what is already in consciousness tends to remain. Psychol. Rev. Mon. Sup., xiv. 85.—Law of preference, (a) The law of the relative influence of the ideals of force, pleasure, austerity, and self-realization in determining social choice. In populations as they are the lower ideals dominate, but in normal social evolution the higher ideals become increasingly influential. Giddings, Elements of Sociol., p. 168. (b) In the psychology of association, same as **alaw of interest.—Law of priorities, the body of laws, decisions, and customs giving the distribution of water for irrigation in accordance with the order of first use. This law exists in various forms in most of the western arid States and protects the first

users of water for irrigation against subsequent appropriators of it.—Law of priority, the principle that in the formal, or Latin, nomenclature of taxonomic or systematic biology the first name published for any group is to be taken as the valid, tenable, or correct name of that group. Any name subsequently applied to the same group is rejected, and is termed a synonym. In botany, formal nomenclature is treated as beginning with the general application of binary, or binominal, names to plants in Linnaus's "Species Plantarum" (1755). The law of priority is applied to the names of genera, species, and subspecies, and by some writers to the names of families, but not to the higher groups. A name dates not from the time when it was first used in a public lecture, or in manuscript, or as a garden or herbarium label, or even from its mere occurrence in a printed book, but from the time when it was established by publication in the nomenclatorial sense of that word. A corollary of the law of priority is the principle of the rejection of homonyms. See *xestablish, 8, *publication, 5, and *khomonym, 3.—Law of progression. See *xprogression.—Law of psychical contrasts. See *xcontrast.—Law of psychical contrasts. See *xcontrast.—Law of psychical relations, in *Windit's psychol. one of the three psychological laws of relation. It sessential content is "the principle that every single psychical content receives its significance from the relations in which it stands to other psychical contents. and its most complete expression is to be found in the processes of apperceptive analysis and the simple relating and comparing functions upon which this is based. See law of psychical *xcontrasts* and *kaw of psychical resultants. W Wundt (trans.) Outlines of Psychol., p. 323.—Law of psychological laws of relation. It finds its expression in the fact that every psychical compound shows attributes which may indeed be understood from the attributes of these elements. W Wundt (trans.) Outlines of Psychol., p. 321.—Law of psychophysical

We may now subsume all these phenomena—tonal in-tervals, light contrast, the geometrical increase of stimu-lus-intensity for equally noticeable sensation-differences— under one general law: the law of relativity.... We shall expect to find that the law of relativity is not restricted to the sphere of sensation, but is applicable in every case where the intensity of a mental process is quantitatively apprehended and compared with that of others.

is quantitatively apprendiction of others.

W. Wundt (trans.), Human and Animal Psychol., p. 119. Law of repetition, in psychol., the principle of association by configuity.

tion by contiguity.

The law of association by contiguity would hold that letters or words occurring in relatively close succession, or simultaneously, . . . tend to fuse or coalesce. This is called also the law of repetition.

Psychol. Rev. Mon. Sup., xiv. 71.

Is called also the law of repetition.

Psychol. Rev. Mon. Sup., xiv. 7.

Law of restraint, the law of the normal restraint of impulsive social action. Impulsive social action varies inversely with the habit of attaining ends by indirect and complex means.—Law of retailistion. Same as lex talionis (which see, under lex).—Law of segregation. (a) The tendency of like units to collect in one place, group, or arrangement, under the common action of incident forces.

(b) The numerical law to which the descendants of Mendellan hybrids conform. See ancestral *ninheritanee.—Law of sensation-intensities, in psychophys., Weber's law. Wwindt (trans.), Human and Animal Psychol. p. 33.—Law of slip, in phys., the law that, at low pressures, the movement of a gas along a solid surface is the same as though the solid were withdrawn to a distance equal to twice the mean free path of the particles and were replaced by a layer of gas at rest.—Law of substitution, in politiceon, the law according to which producers who are not using the most economical methods are impelled to aubstitute those methods for the more costly ones which they are using; also, the law according to which society substitutes the more efficient employers of labor and capital for the less efficient. Alfred Marshall. Prin. of Economics (4th ed.), p. 420.—Law of sympathy, the law that "the degree of sympathy decreases as the generality of resemblance increases," Giddings, Elements of Sociol., p. 67.—Law of the circle. See *circle.—Law of the Medes and Persians, something impossible to alter: referring to Dan. vi. 12.—Law of sympathy, the law flore meaning increases," Giddings, Elements of Sociol., p. 67.—Law of the circle. See *circle.—Law of the superarine of sun-spots on certain zones, at certain times in the period of spot-frequency: often referred to as Specter's law.—Laws of imitation, the laws (formulated by Tarde) of the causes and progression, and (?) that in the absence of interference imitations are refracted by their media, so that the copy never exac

variations and inventions among all social forms and products.—Laws of liberty, the laws of the social causes determining the amount of liberty enjoyed in any given population; especially the laws (Giddings, "Elements of Sociology")(1) that liberty is proportional to the predominance of rational over sympathetic and dogmatic likemindedness, and (2) that coercion diminishes with the decrease of ethnic and moral diversity and of inequality.—Laws of radiation. See *radiation.—Laws of twinning. See twin1: also, *twin1.—Le Chateller's law of radiation, the empirical law that the intensity of radiation of red light is

$$I = 10^{6-7} \cdot T - \frac{3210}{T}$$

where I is the intensity and T is the absolute temperature of the radiating body.— Listing's law, in physiol. optics, a law of eye movement, first suggested by J. B. Listing, and phrased by Helmholtz as follows: "if the line of regard travel from the primary to any other position, the torsion of the eyeball in this second position is the same as if the eye had turned about a fixed axis at right angles to the first and second directions of the line of regard." E. B. Titchener, Exper. Psychol., I. ii. 244. See Donders's *law.—Makeham's law of mortality, a modification of Gompertz's law, expressed by the formula, $\mu_X = A + Bcx$, in which A represents chance, or the constant element in the force of mortality.— Manebach law. See *twin1, 3.—Maxwell-Boltsmann law of the distribution of of velocities, the law, due to Maxwell and, in more general form, to Boltzmann, that the final distribution of errors of observation as determined by the kinetic theory of gases, the law that in a mixture of gases the average kinetic energies of the different sets of molecules tend to approach a common value, and that when the mixture is in equilibrium the kinetic energies of the different sets of molecules tend to approach a common value, and that when the mixture is in equilibrium the kinetic energies of the different sets of molecules are the same.—Maxwell's law of viscosities, the law that the viscosity of a gas is independent of its pressure.—Mendeljégfő slaw. Same as periodic law.—Mendel's law of ancestral inheritance.

Already the researches just alluded to have afforded a final and trefragable proof of the accuracy of Haily's orig-

law. See the extract.

Already the researches just alluded to have afforded a final and irrefragable proof of the accuracy of Haily's original conception that to every definite chemical substance there appertains a distinct and characteristic crystalline form, and have reconciled this with Mitscherlich's discoveries in isomorphism by revealing an exquisitely beautil relationship, connecting very small angular differences which are found to occur between the crystals of the various members of isomorphous series with the atomic weight of the interchangeable elements composing them. This generalisation not only defines the real meaning, extent, and scope of Mitscherlich's law, but also proves that the supposed exceptions are not such, and, therefore, the absolute truth of the rule that difference of chemical composition does in all cases involve difference of crystaline form.

Nature, April 4, 1907, p. 529.

Moses's law, a piratical term for the laying on of thirty-

Moses's law, a piratical term for the laying on of thirty-nine lashes on the naked back. The order was, "Lay on forty, less one."—Müllerian law. See the extract.

A very interesting set of phenomena are connected with the acanthin skeletons (of Acantharia) where the spicules are not deposited in the calymma, but are formed at the centre of the central capsule, growing out centrifugally into the extra-capsular plasm and resulting in a skeleton of radiating spines. With a few exceptions these spines are twenty in number, and are arranged in a certain geometrical order which has been characterized as the Müllerian law. The points of the spines fall in five circles parallel to the equator, and there are four spines to each circle. The spines are named, according to this scheme, polar, tropical, equatorial, sub-tropical, and sub-polar.

Müller's law. Same as Müllerian *law.— Nysten's law,

Müller's law. Same as Müllerian *law. — Nysten's law, the rule that rigor mortis appears first in the facial muscles and passes downward, involving the muscles of the lower extremities last.—Ostwald's dilution law. See *dilution.—Oswald's law, in Eng. law, a law, named from Oswald, Bishop of Worcester, passed about 903, which caused the ejection of married priests and the introduction of monks into the churches.—Parmphlet laws from Oswald, Bishop of Worcester, passed about 964, which caused the ejection of married priests and the introduction of monks into the churches.—Pamphlet laws. Same as **atatutes at large.—Pascal's law, in hydros., the law that in a fluid at rest the pressure is the same in all directions and that, aside from the differences of pressure produced by the action of gravity, the pressure within the fluid is everywhere the same.—Paschen's law. See laws of **radiation.—Pearson's law of ancestral inheritance. See ancestral **inheritance.—Pericline law. See pericline twin, under twin1.—Personal-liberty laws. See personal.—Pflüger's law, the law that stimulation of a nerve occurs with the disappearance of anelectrotonus and the appearance of calectrotonus.—Phonetic law, a law supposed to govern phonetic changes. The phrase has been taken much too seriously by some writers, who treat it with a reverence not deserved by a figure of speech. The phrase properly expresses the fact that certain changes affect or appear to affect all members of the same class, in the same period of the same language, or universally, and the fact that all phonetic changes and sequences are restricted by physiologic conditions within a certain range of variation. What appear to be exceptions to an ascertained or accepted law are explained by the interference of other laws or facts. In this way there is a basis for the frequent statement that phonetic laws are invariable. The law is often only a general tendency, liable to be checked by any accident of speech or time. Thus, the law that Indo-European t shall be Teutonic th (as in Latin tenuis = E. thin) is nullified by the law that an Indo-European t after s is thereby preserved (Indo-European sta-, E. sta-nd, etc.).

The word law has been ill chosen for use in this con-

The word law has been ill chosen for use in this connexion. In phonetic laws there is no element which can be identified as coming under the definition of a law as propounded by a jurist like John Austin.

Encyc. Brit., XXXI. 674.

Poiscuille's law, the law that the quantity of liquid which will flow through a capillary tube varies directly

as the pressure and the square of the cross-section of the tube, and inversely as the length of the tube and the coefficient of viscosity.—Pole's law, in photom., an empirical law or rule for the variation in the light from a gas-burner, with the supply of gas. It is given by the formula In = Lo + A (c — q) where In is the intensity when the supply of gas is normal and equal to c, Lo is the intensity when the supply is q and A is a constant depending on the quality of the gas.—Poynting's law, in elect., the law that when a conductor carrying current is in an electrostatic field (as in the case of a wire connecting the plates of a charged condenser, or in the case of a cable), the transfer of energy takes place through the delectric along paths which are the intersections of the equipotential surfaces of the electrostatic field with the council between neighboring bodies by virtue of which a body approaches the temperature of its surroundings and tends to maintain that temperature indefinitely. The radiation received when that condition is reached must then always equal that emitted. See *radiation.—Public laws. Same as *statutes at large.—Purkinje's law, in physiological optics, the law that of two surfaces, differing in color but equally bright when moderately illuminated, the one which sends light of greater wave-lengths to the eye will appear relatively brighter under intense illumination and darker under feeble illumination than the other.—Quételet's law, in phenology, the law that agiven stage of growth requires a given definite preceding climatic condition.

Raines law, a law (named from Senator John Raines, its chief promoter), enacted in 1896 and amended in 1897.

Raines law, a law (named from Senator John Raines, its chief promoter), enacted in 1896 and amended in 1897, governing the sale and taxation of the liquor-traffic, loca increases; or, expressed mathematically, that $\frac{\mathbf{w}}{\mathbf{w}} = \frac{\mathbf{e}}{\mathbf{E}}$

increases; or, expressed mathematically, that $\frac{\mathbf{w}}{\mathbf{w}} = \frac{\mathbf{e}}{\mathbf{c}}$ where $\frac{\mathbf{w}}{\mathbf{w}}$ is the efficiency, e the counter-electromotive force, and E the impressed electromotive force.—Sine law, in the theory of lenses, the law which defines the conditions under which a system of lenses will produce images free from aberration. The law is that the sines of the angles of inclination of any two conjugate rays passing through a point in the object and the corresponding point in its image must have a constant ratio. Lens systems for which the sine law is fulfilled are said to be aplanatic.—Snell's law, in optics, the law that in the refraction of light the sines of the angles of incidence and refraction.—Spinel law. See spinel twin, under twin!—Spoener's law. Same as *Mav of zones.—Stefan's law, the empirical law, established by Stefan, that the total radiation from a body varies directly as the fourth power of the absolute temperature of the body. See laws of *radiation.—Stokes's law, the law that the wave-length of the light emitted by a fluorescence body always exceeds that of the exciting light. See *kuminescence.—Talbot's law, Talbot-Plateau law, in psychol. optics, the principle that the color and brightness of the uniform field produced by a rapid succession of variously colored and variously bright stimuli are the same as they would have been had the reflected light been, from the first, uniformly distributed over the field; and that increase of rapidity of succession, beyond the point required for fusion, produces no change in the result. The law was formulated by Talbot in 1834 and verified by Plateau in the following year. E. C. Sanford, Exper. Psychol., p. 146.—The great law, a name given to the first code of laws of Pennsylvania. It was established in 1682 and is celebrated for the provisions it contained for liberty of conscience.—Thomsen's law, in phys. chem., the supposed rule that the electromotive force of a galvanic cell, in volts, is equal to the chemical energy of the reactions going where $\frac{\mathbf{w}}{\mathbf{W}}$ is the efficiency, e the counter-electromotive efflux of a liquid flowing out of a vessel under a constant head h is $\mathbf{v} = \sqrt{2}gh$, where g is the acceleration due to gravity. It follows from this law that the velocity of efflux is that which the liquid would acquire by falling freely under the action of gravity from the level of the surface of the liquid in the vessel to the orifice; also, that for a given head the velocity of efflux is independent of the density of the liquid and for a given pressure at the orifice is inversely proportional to the square root of the density.—Van der Kolk's law, in neurol, the law that the motor fibers in any nerve are distributed to the muscles which move the part to which the sensory fibers of the same nerve pass.—Von Baer's law. See Baer's *law (b).—Watt's law, the law that the vapor pressure in two connecting vessels, differing in temperature but containing the same liquid,

is that determined by the lower temperature. - Weber-Fechner law, in psychophysics, the Fechnerian statement or formulation of Weber's law, that sensation

ment or formulation of Weber's law, that sensation increases as the logarithm of stimulus. Fechner gave this law a precise phrasing and a mathematical formulation, and . . . put it to elaborate experimental test. Although his modesty led him to name it after Weber, we might more correctly term it Fechner's Law or the Weber-Fechner Law.

E. B. Tütchener, Exper. Psychol, II. i. 29.

Wien's law, the law of the variation of radiation with temperature expressed by the equation

$$I_{\lambda} = C_1 \lambda^{-5} \ e^{-\frac{C_2}{\lambda T}},$$

where I_{λ} is the intensity of the wave-length λ in the spectrum of a glowing body, e is the logarithmic base, T the absolute temperature of the body, and C_1 , c_2 are constants. See laws of *radiation.—Wundt-Lamansky law, in physiol. optics, the law that the line of vision, in traversing a vertical plane parallel to the frontal plane, follows straight lines in the vertical and horizontal directions, but takes curved paths for all intermediate movements. The law was formulated by Wundt in 1862 and by Lamansky in 1869.

L. A. W. An abbreviation of League of American Wheelmen.

ican Wheelmen.

law-hand (lâ'hand), n. The form of handwriting customarily used in legal documents.

lawine (lâ'win, G. lā-vē'ne), n. [G. lawine (lawine), lauwine), lauine, loewin, (Sw. dial. lawine (lâwine), lauine (laúine), lauwin, lauwi, laui, in Appenzell läuena, läuela, older lewe, in Tyrol lān, lāne, in the Bavarian Alps læuen, læun, læunen, læn, lænen. etc., an avalanche; OHG. lewinna, a torrent, MHG. lēne, an avalanche, liune, a thaw; appar. < ML. lavina, lavine, an avalanche, < L. labi, fall: see lapse. But the forms in part seem to depend on G. lau, tepid: see lew², a.] An avalanche. avalanche.

law-lordship (lâ'lôrd'ship), n. The official position of a law-lord.

law-lordship (lâ'lôrd'ship), n. The official position of a law-lord.

lawman, n. 3. A lawyer.

lawman, n. 3. A lawyer.

law-merchant (lâ'mer'chant), n. See law!.

lawn-grass (lân'grâs), n. A grass suited to forming lawns and used for this purpose. A good lawn-grass must make a close and permanent turf and must therefore be a perennial creeping by rootstocks or otherwise; it must be of a pleasing color, a deep rich emerald green (lasting through the season) being the most desirable; and it must be soft in texture, this depending partly on width of leaf and partly on fiexibility. The principal lawn-grasses of the United States are Kentucky blue-grass (with which white clover may be mixed), creeping bent, and Rhode Island bent; but where these cannot be grown substitutes are employed, as Bermuda grass in the South, and St. Augustine grass on the South Atlantic and Gulf coasts.—Charleston lawn-grass, Same as St. Augustine *grass.—Japânese or Korean lawn-grass, a creeping grass, Zoysia pungens, native on the shores of tropical and eastern Asia, Australia, and New Zealand. It is both a good sandbinder and a good grazing-plant, and, though of harsh texture, an excellent lawn-grass for sandy soils: specially prized in the far East for tenniscourts.—Mexican lawn-grass, Opizia stoloni/era, an extensively creeping diaccious grass, similar in habit to Bermuda grass but more delicate. It forms a thick sod over all exposed surfaces, and is suitable for use in public squares, etc., while it is also liked by cattle and is useful for pasturage.

lawn-hockey (lân'hok'i), n. A lawn-game, a modification of field heakery

lawn-hockey (lan'hok'i), n. A lawn-game, a

modification of field-hockey.

lawn-party (lan'par'ti), n. An outdoor party.

lawsonite (la'son-it), n. [Named after Prof.

A. C. Lawson of the University of California.]

A silicate of aluminium and calcium occurring in grayish-blue orthorhombic crystals in crystalline schists in California and elsewhere. lawyer, n. 3. (b) Same as gray snapper. See

snapper.—Bush lawyer. See bush-lawyer.—Penang lawyer. See penang-lawyer. In England the name is often misapplied to the Malacca cane.

lawyer-cane (lâ'yer-kān), n. Same as *lawyer-

lawyer-palm (lâ'yer-pam), n. In Australia, Calamus australis, a strong, climbing palm, with stems several hundred feet long and less than an inch in thickness. Its long leaves and tendrils are covered with sharp, recurved spines and make it a serious obstacle to travelere

lawyer-vine (lâ'yer-vin), n. In Australia, any one of several spiny, trailing or climbing vines, as the bush-lawyer, Rubus australis, the lawyer-palm, Calamus australis, and Flagellaria Indica. See Flagellaria.

lax-fisher (laks'fish'er), n. One who catches salmon at the time of their ascent of rivers in the spawning season.

laxifoliate (lak-si-fo'li-āt), a. Same as laxifolious.

laxism (lak'sizm), n. The principles or interpretations of the laxists.

laxitude (lak'si-tūd), n. [L. *laxitud tas, < laxus, lax.] Laxity. [Rare.] [L. *laxitudo for laxiLaxmannia (laks-man'i-ë), n. [NL. (Forster, 1776), named in honor of Eric Laxmann (1737-Laxmannia (laks-man 1-a), n. [137-36], named in honor of Eric Laxmann (1737-36), a Finnish priest who made extensive botanical collections in Siberia.] A genus of plants of the family Asteracese. See Petrobium.

lay¹, v. I. trans. 20. To aim or point, as a cannon.

At the moment of firing [coast-defense guns], their positions of course become defined; but the difficulty of layers and an icing over the top.

layers same as suggran are suggran and layer. Same as suggran are suggran a

lay1, v. I. trans. 20. To aim or point, as a

cocating them sufficiently for accurate laying on board ship may nevertheless be considerable.

To lay away. (c) In tanning, to spread (hides) in vate with bark between the layers, tan liquor being added. C. T. Davis, Manuf. of Leather, p. 179.—To lay down. (g) In oyster culture, to plant, as an oyster-bed.—To lay in (b) In oil-painting, to place the first masses of color on a canvas. (c) To eat (something) voraciously; tuck in a large amount of: as, he laid in dinner enough for two days. [Colloq.]—To lay on. (d) In printing, to place, as paper to be printed, upon the feed-board; also, to place (a chase of type) upon the bed of the printing-press. (e) To acquire, as fleshor weight: said of cattle which are being fattened, etc.—To lay under, to put or place in a condition specified or indicated by a following complementary word or clause: as, to lay (one) under the necessity of doing some body); etc.

TI intrace.

body); etc.

II. intrans.—Lay aft (naut.), an order to the crew to proceed toward the stern of the ship.—Lay in (naut.), an order to the men on the yards to gather in toward the mast; a command to leave the yard-arms and 'lay in' toward the slings.—To lay forward (naut.), an order to the crew to go toward the head of the ship.—To lay in. (b) To shut down or stop work: said of coal-mines.—To lay out on one's oars (naut.), to pull a more powerful stroke and drive the boat faster through the water.

lay¹, n. 9. Terms or conditions, as of a bargain. [U. S.]

Lay, terms or conditions of a bargain; price. Bx. I bought the articles at a good lay; he bought his goods on the same lay that I did mine. Pickering, Vocabulary.

Lang's lay, a method of laying the strands, in making a rope, in which they are twisted in the same direction as the individual wires or fibers instead of in the opposite direction.—Lay of a cable, the distance, measured along the axis, within which the helically wound strands of a cable make one complete turn around the axis.

lay-away (la'a-wa'), n. [lay away: see lay!, v.]
The vat in which hides are laid for tanning;
also, the liquor in which they are steeped. C. T. Davis, Manuf. of Leather, p. 383.

lay-band (la'band), n. A band or string for tying a skein or lea of thread or yarn.

lay-boat (lā'bōt), n. A boat at anchor.
lay-by (lā'bī), n. 1. A sluggish place in a river, or still water artificially inclosed, in which barges can be laid by when out of commission.—2. Something laid by or saved, especially money. N. E. D. lay-day, n. 2. pl. Same as *lie-days.

is laid or folded over on itself; not standing;

lay-over. Also used substantively.

ayer, n. 7. In oyster culture, an artificial oyster bed.—8. In cattle-raising, a field or yard layer, n. in which cattle ready for shipment are kept.—
9. In phytogeog., one of several strata of plants of different vegetation forms met with in some formations, especially in forests. Thus in a forest, beneath the facies, or primary layer consisting of large trees, there may be successively a layer of small trees and shrubs, one of bushes, then upper, middle, and lower herbaceous layers, and finally a ground-layer of mosses, lichens, etc. F. E. Clements regards these layers as vertical zones. See *zone, 6. Pound and Clements.—Baillarger's layer, Same as Baillarger's *time.—Bowman's layer, a layer of connective tissue between the cornea and the conjunctiva. Also called Bowman's membrane.—Grookes's layer, the layer of vapor underlying a liquid in the spheroidal state and insulating it from a hotter surface beneath; also, the dark space at the cathode of a vacuum-tube, usually known as Crookes's space.—Huxley's layer. Same as Huxley's *membrane.—Langhans's layer, the epithelial layer of the villi of the chorion.—Hyophan layer, in certain cliates, as Stentor and Vorticella, the fibrillated ectoplasmic or cortical portion of the body or of the contractile stalk. Also myophane layer,—Prismatic layer, in mollust-shells, the middle layer, consisting of minute prisms of calcium carbonate separated by thin fibers of conchlolin. It lies between the periostracum and the nacre.—Rauber's layer, the outermost of the three cell-layers which form the very of different vegetation forms met with in some



A vertical section across the embryonal area of the blastodermic vesicle of a rabbit at the end of the fifth day, highly magnified, (After Kölliker), a, outer layer of cells of the embryonal area, or Rauber's layer; b, epiblast; c, hypoblast. (From Marshall's "Vertebrate Embryology.")

young mammalian blastodisc. This external layer, which later disappears completely, covers the ectoderm.—Skeletogenous layer, in embryol., the layer of condensed mesoderm cells immediately surrounding the notochord of the vertebrate embryo and giving rise to the axial skeleton.—Sluggish layer, the portion of the blood-stream, in the smallest vessels, in which the white corpuscles are seen

alowly rolling along the wall of the vessel, while in the center of the stream the red corpuscles are propelled rapidly.—Still layer. Same as singgish *layer.—Subcallosal layer, a layer of nerve-fibers on the ventral or lower side of the callosum.

layers and an icing over the top.

layered (la'erd), a. Arranged in layers; consisting of a specified number of layers; covered with something; as, layered with mud.—Layered formation. See *formation.

layer-stool (la'er-stöl), n. A root from which layers are produced. N. E. D.

laying-away (la'ing-a-wa'), n. The process of tanning hides for sole-leather by spreading them in vats with alternate layers of bark. C. T. Davis, Manuf. of Leather, p. 179.

laying-house (la'ing-hous), n. In rope-manuf., the building in which the laying of the strands for the completed rope is done.

for the completed rope is done.

laying-tool ([a'ing-töl], n. A rectangular flat of Lordship.
trowel used by plasterers in laying and L. D. S. An abbreviation (a) of Latter-day smoothing plaster.

Saints; (b) of Licentiate of Dental Surgery.

laying-trowel (la'ing-trou'el), n. Same as *laying-tool.

laying-walk (lā'ing-wâk), n. A ropewalk; a long building where ropes are laid.

layka (lā'i-kā), n. [Aymará and Quichua.]
A society of shamans, among the mountain Indians of Bolivia and Peru, who are diviners by means of coca-leaves, spiders, and other things. They also are shamans of the hunt, and rain-makers.

lay-over (la'o''ver), n. 1. In railroading, a train, particularly a freight- or local passenger-train, which is detained on a siding to

allow an express-train to pass. [Colloq., U. S.]—2. Same as *lay-down.

lay-race (lā'rās), n. That part of the loom-lay or lathe upon which the shuttle travels as it is thrown from one side of the lay to the

lay-shaft (la'shaft), n. An independent shaft; a shaft which turns independently of shaft; a shaft which turns independently of the adjacent machinery. Such a shaft, driven by an independent engine, has been used to some extent for operating the valves of marine engines to secure constant speed; hence the term has come to be used for any shaft that operates the valves of an engine, as, for instance, the can-shaft of a gas-engine.

cam-shart or a gas-engine.

The one lay-shaft paralleling the cylinders operates, through cams, all of the valve movements of the engine.

Elect. Rev., Sept. 17, 1904, p. 456.

lay-down (la'doun), a. Said of a collar which lazar, n. II. a. Having a loathsome disease; leprous.

Lazaret fever. Same as typhus fever

lazera (laz'e-rä), n. A catfish, Clarias lazera, found in African rivers.

lazuli-bunting (laz'ū-lī-bun'ting), n. Same

as lazuli-funch.

lazuline (laz'ū-lin), a. [lazuli + -ine¹.] Of
the color of lapis lazuli; bluish.

lazulitic (laz-ū-lit'ik), a. [lazulite + -ic.]
Pertaining to, resembling, or containing lazu-

lazurite (laz'ū-rīt), n. [ML. lazur (azure lapis lazuli) + -ite².] The sodium-aluminium silicate which forms the essential part of the

ornamental stone lapis lazuli.

Lazy brand, in stock-raising, a cattle-brand so placed on the animal that its longer axis is horizontal, as -,

lazy-bar (la'zi-bar), n. A portable iron bar placed across the opening of the fire-door of a furnace to serve as a rest for the fire-tools

when they are in use in cleaning the fire. lazy-jack, n. 2. Naut., a length of rope rove through a thimble, seized on to the boomtopping lift, and made fast to the boom. When the sail is lowered the jacks prevent the folds of canvas from falling on the deck.

lazy-scissors (la'zi-siz'orz), n. sing. and pl. Same as lazy-tongs.

L. B. An abbreviation (b) of the Latin Legum Baccalaureus, Bachelor of Laws.

L-bar (el'bär), n. A bar of metal, which has a cross section resembling the capital letter L; an angle-bar; an angle-beam. Also called

L-beam (el'bēm), n. Same as $\star L$ -bar.

1. b. w. In cricket, an abbreviation of leg before wicket. A batsman is out leg before wicket if with any part of his person he stops a ball which, in the opinion of the umpire at the bowler's wicket, has been pitched in a straight

line from it to the striker's wicket and would

multiple. L. C. P. An abbreviation of Licentiate of the College of Preceptors.

Ld. An abbreviation of Lord. L. D. An abbreviation (a) of

Lt. D. An abbreviation of Lora.

L. D. An abbreviation (a) of Lady-day; (b) of Light Dragoons; (c) of Low Dutch; (d) [l. c.] of the Latin litera dominicalis, dominical letter; (e) same as L. H. D.

L. Div.
Divinity. An abbreviation of Licentiate in

Contractions (a) of Ladyship; (b)

each², v. t. 3. To extract metal from (an ore) by subjecting it to chemical reagents which take the metal into solution. leach2.

The experiments in the concentration and in the leaching of the ore have taken shape in the erection of a small metallurgical plant.

R. D. Satisbury, in Geol. Surv. of New Jersey, 1900,

leach², n. 4. A tank in which hot water is passed through ground bark to obtain tannin. Mod. Amer. Tanning, p. 27. Also latch.—Leach brine. See *brine1.

leach-hole (lech'hol), n. A tubular cavity dissolved out of rocks by circulating waters.

leaching (le'ching), n. 1. Same as lixiviation.—2. The process of obtaining tannin from bark. C. T. Davis, Manuf. of Leather, p. 48. leach-tank (lech'tangk), n. A tank in which metallic ores are separated by subjecting them to chemical reagents and subsequently washing and desiring ing and draining.

lead¹, v. i.—To lead through, in whist and bridge, to make it difficult for the second player on a trick to know what to do: as, to lead through a singly guarded king in the dummy, the position of the ace not being known.—To lead up to, (b) In card-playing, to make a player fourth hand in any trick, as, in bridge for the pone to lead up to the dummy's weakness in a suit.

1984, **. 3. (c) In Australia, an old or 'dead' river-bed in which gold is found.

7. In elect.: (c) The advance of phase of one electric wave over another: a term used mainly in alternating-current circuits.—10. In forestry, a snatch-block with a hook or loop for fastening it to convenient stationary objects: used for guiding the cable by which logs are dragged.—11. A flock of flying wild-

After the sportsmen were in the hole and everything was ready, Stewart called "Here comes a lead from the west."

Forest and Stream, Jan. 24, 1903, p. 68.

was ready, Stewart called "Here comes a lead from the west."
Forest and Stream, Jan. 24, 1903, p. 63.

Albany lead, in schist, an opening to show four trumps and three of each plain suit: so named because made popular by the Albany Whist Club.—American leads, in whist, leads that show the number of cards in the suit led. They are never used in bridge.—Angle of lead, in elect., the angular displacement by which an alternating current leads the electromotive force: the opposite of *lag* in an alternating current circuit.—Angular lead, in describing a valve-motion operated by an eccentric, or in adjusting it, an angular displacement of the center line of the eccentric ahead of its normal relation to the center line of the crank, which is given so that the opening of the port may precede or lead the beginning of the pistonstroke by a determined smount.—Blue lead, a bluestained stratum of gold-bearing gravel. [California.]—Deep lead, in Australian gold-mining, an ancient rivercourse, which is now only disclosed by deep-mining operations.—Forward lead in elect., a rotation of the brushes of a generator or motor from the neutral position in the direction of rotation of the commutator.—Hysteretic lead, in elect., the difference of phase between the magnetic flux and the magnetomotive force in an alternating circuit containing iron.

Due to the hysteretic lead a, the lag of the current is

Due to the hysteretic lead a, the lag of the current is

Steinmetz, Elements of Elect. Engineering, p. 50.
Irregular lead, in whist and bridge, a lead which is a departure from the usual custom, such as the 8 led from 10, 8, 6, and 4.—Linear lead, in a steam-engine, the linear distance by which the port is open when the piston begins its stroke.—Negative lead, in a steam-engine:

(a) The angle through which the crank has turned from the dead-center when the valve opens to admit steam.

(b) The linear distance which the valve has to travel, after the crank has passed the dead-center, before the valve opens.—On the lead, held by a chain or leather thong, as a dog.—Original lead, in bridge and whist, the suit first opened.—Stringer lead, a small veinlet, which is followed in the hope that it will conduct to larger bodies of ore. lead?, n.—Chemical lead, lead which is free from alloy of other metals, notably sinc and antimony; since of the season of the se a hot solution of lead (Political), made by precipitating a hot solution of lead chlorid with calcium hydroxid.—

Radioactive lead, a substance formed by the disintegration of radium and the fourth of the series of radioactive disintegration-products following the emanation, for which reason it is known as radium D. It has not been found to emit a radiation, but slowly changes into other products, radium E, radium F, and radium G (polonium), which are always present unless the radiolead has been freshly prepared and are the source of both a- and β-rays. See *radio-lead.—Silver lead. See ***silver-lead.—Siag-lead, an inferior lead obtained from smelting rich lead slag in a slag hearth.—Spongy lead, metallic lead separated from a solution of one of its salts in a loosely connected, imperfectly coherent mass, as in the working of some forms of storage galvanic batteries.—Sublimed white lead, the trade-name for a white pigment which consists of lead sulphate, made by roasting galena in the air under proper conditions, and collecting and purifying the tume given off. It is sometimes sold with an admixture of lead carbonate and zinc oxid.

leadage ($l\bar{e}'d\bar{a}j$), n. [$lead^1 + -age$.] The distance from a coal-mine to the point where the coal is shipped.

lead-bar (led'bar), n. The swingletree or equalizing-bar used for the leading horses of a four-in-hand team. See swingletree.

leaden (led'n), v. t. [leaden, a., or lead² + -en¹(3).]
1t. To fasten or cover with lead.
2. To weigh down with or as with lead, as one's spirits.

one's spirits.

leader¹, n. 5. (k) In marine hardware, an eye, ring, or pulley used as a guide for a rope or chain. It may be a simple casting having an eye and designed to be bound to a wire rope; or an eye in a screw-plate, as the tiller-rope leader of a boat; or an eye swiveled to a deck-plate, as a jib-leader; or a simple half-ring screwed to the deck, as a sheet-leader, a bell chain leader, a cross-tree leader.

10. The first player on any trick in a game of cards; the player who sits on the dealer's left.

leader-block (lē'der-blok), n. In marine hardware, a deck-block used to guide or lead a rope from the sail to the cleat, as the jib-sheet leuder-block of a small yacht where the sheets are led aft to the cockpit.

leaderette (lē-der-et'), n. A short leader in a newspaper. [Eng.]

lead-flat (led'flat), n. A nearly flat roof covered with sheet-lead. A similar roofing, in which tin plates are used instead of lead, is called in the United States a deck. [Eng.]

leading¹, p. a. 4. In naval arch., said of the edge or end of a surface or blade, as a propeller-blade, which is in advance when moving through water: opposed to *following.

In the case of a plate set obliquely to its line of motion through water, it has been explained that the centre of pressure is nearer the *leading* edge than the after edge (see ...)

White, Manual of Naval Arch., p. 499.

Leading part (naut.), the part of a tackle that is hauled

leading-beam (le'ding-bem), n. One of two or more beams adjusted in position to serve as guides for placing the other beams of the

one along its course and the other at its transverse section. Philos. Trans. Roy. Soc. (London), 1897, ser. B, p. 7.—Longitudinal lead-off, the passage of a constant current through a nerve which has been arranged upon two electrodes so connected with a galvanometer that neither is in contact with a transverse section of the nerve, both touching the nerve along its course.—Transverse lead-off, the passage of a constant current through a nerve which has been arranged upon two electrodes so connected with a galvanometer that the transverse section of the nerve lies upon one and its body upon the other. its body upon the other.

lead-paper (led 'pā 'per), n. White paper which has been dipped into a solution of a colorless salt of lead and dried. It serves as a test for sulphureted hydrogen or for soluble hydrosulphid, being blackened by exposure to these substances.

lead-reeve (led rev), n. In mining, an official with whom aggrieved miners lodge complaints. [Prov. Eng.]

lead-reins (lēd'rānz), n. pl. In a four-in-hand harness, the reins used to guide the leaders.

lead-riveting (led'riv'et-ing), n. In mining, a method of locking a safety-lamp by fastening it with a lead rivet which receives an impression and acts as a seal, so that any tampering with the lamp may be detected.

lead-spar, n. 2. Anglesite or other similar lead compound.—Red lead-spar, crocoite.

lead-tree, n. 2. Arbor Saturni, or tree of Saturn: an old name for the arborescent growth of metallic lead, in thin crystalline leaflets, which forms on a strip of sheet-zinc placed in a solution of a lead salt, as lead acetate or nitrate.

lead-wash (led'wosh), n. Same as lead-water. lead-work (led'werk), n. In building, work other than ordinary plumbing, in which lead is used, as in gutters, roofing, etc. [Rare in U. S., but common in Great Britain.]

U. S., but common in Great Britain.]

leaf, n. 2. (i) The frame or shaft which holds the complement of heddles for weaving; the harness.—Coppery leaves. See *coppery.—Cornute leaf, a leaf in which the midrib is projected in the form of a horn or spine, sometimes in a different plane.—Floral leaf, one of the divisions of the perfanth; a petal or sepal; also, less properly, a bract or leaf which subtends a flower.—French leaf, a hard yellow-brass leaf, used in overlaying with brass.—Indian leaves. See *malabathrum.—Sibylline leaves. See *stopline.—Soap leaves. See *soap.—Standing leaf, that leaf of a hinge which is secured to a stationary object, as a door-post.

leaf-areole (lef'ar*5-51). n. Same as *leaf-

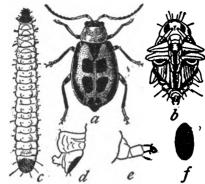
leaf-areole (lef'ar"e-ol), n. Same as *leaf-

leaf-bar (lef'bar), n. A transverse slat or grid. in different parts of the scutching- or pickingmachinery in a cotton-mill, for the arrest, and separation from the cotton, of leaves and other foreign matter.

leaf-base (leaf'bās), n. That part of a leaf, or rather of its stalk or petiole, which remains within the trunk or stem after the leaf has fallen: used chiefly of fossil trunks, as of Lepidodendron, Cycadeoidea, etc.

leaf-beetle, n. Particular leaf-beetles (and so with leaf-cutters, root-borers, etc.) are known by some distinctive adjective or attribute prefixed, as bean leaf-beetle ('leaf-beetle of the bean'). All such three-word names may be taken also as bean-leaf beetle ('beetle of the bean-

leaf'), etc.—Bean leaf-beetle, a chrysomelid beetle, Cerotoma trifurcata, which feeds on the foliage of the bean and pea in the United States, from Maryland and



Bean Leaf-beetle (Cerote

ttle; b, pupa; c, larva; d, anal segments of larva; c, egg: a, b, c, enlarged about five times; d, c, f, mo (Chittenden, U. S. D. A.)

lilinois southward; also, Cerotoma caminea.—Cherry leaf-beetle, an American chrysomelid beetle, Galerucella cavicollis, which feeds on the foliage of the cherry.—Clover leaf-beetle. Same as clover-nevevil.—Cotton-wood leaf-beetle. Same as poplar *leaf-beetle.—Elm leaf-beetle, a European chrysomelid beetle, Galerucella luteola, first introduced into the United States near Baltimore about 1840. It has spread north and south, and is



Elm Leaf-beetle (Galerucella luteala)

a, eggs; b, larvæ: c, adult; c, eggs (enlarged); f, sculpture of egg; g, larva; h, side view of greatly enlarged segment of larva; h, dorsal view of larva; f, pupa; h, adult; l, portion of elytron of beetle (enlarged). (Riley, U. S. D. A.)

the principal enemy to the elms grown as shade-trees in most eastern cities. It is commonly known as the imported elm leaf-beetle, and is frequently referred to in literature as Galeruca zanthomelæna and Galerucella zanthomelæna.—Four-marked leaf-beetle, Cryptocephalus quadrimaculatus.—Larger sugar-beet leaf-beetle, Monozia puncticollis.—Linden leaf-beetle, Godontota dorsalis.—Long-horned leaf-beetle, any member of the genus Donacia.—Orange leaf-beetle, any member under beetle, Nodonota tristis, which feeds on the foliage of the pear and the plum.—Poplar leaf-beetle, a chrysomelid beetle, Lina scripta, which defoliates poplars in the United States. Also called cottonwood leaf-beetle.—Rose leaf-beetle, Seme as spotted *paria.—Strawberry leaf-beetle, Typophorus canellus.—Willow leaf-beetle, an American chrysomelid beetle, Lina scripta.

leaf-blight, n. A few of the hosts, with their specific

leaf-blight, n. A few of the hosts, with their specific leaf-blight, n. A few of the hosts, with their specific leaf-blights, are as follows: buckwheat, Ramularia rufumaculans; cabbage, Macrosporium Brassica; celery, Cercospora Apii; cotton, Cercospora gossupina; pear, Entomosporium maculatum; tobacco, Cercospora Nicotiane.—Leaf-blight of almond, a fungous disease of the almond caused by Cercospora circumscissa.—Leaf-blight of corn, a disease which affects the leaves of corn, causing them to turn yellow and die. It is caused by the fungus Helminthosporium inconspicuum.—Leaf-blight of grape, a disease of grape-leaves caused by the fungus Cercospora viticola.—Leaf-blight of mignonette, a disease of the cultivated mignonette, especially when grown under glass, due to the fungus Cercospora Resede, which causes brownish spots on the leaves.—Red leaf-blight, a disease of cotton, due to the impoverished condition of the soil, which produces an autumn-like coloration in the leaves.—Yellow leaf-blight. Same as mosaic *disease. **≠**disease

mosaic *disease.

leaf-blotch (lef'bloch), n. A blotch on the leaves of plants caused by the attacks of certain fungi.—Leaf-blotch of rose, a fungous disease attacking the leaves of roses, caused by Actinonema Roses, which produces dark blotches on the leaves and soon causes them to drop off. See *Actinonema.—Leaf-blotch of strawberry, a fungous disease of the strawberry, due to Ascochyta Fragariæ, which attacks the leaves, producing dead spots.

leaf-brass (lef'bras), n. Very thin sheet-brass.

leaf-bug, n.—Four-lined leaf-bug, an American cap-sid, Pacticapsus lineatus, wide-spread in the United States. It damages gooseberry-bushes, currant-bushes, and many garden plants, puncturing leaves and small twigs and sucking sap. The eggs are inserted in silts cut lengthwise into the stems of plants. Also called the

black-lined plant-bug.—Pear leaf-bug. Same as tarnished plant-bug (which see, under plant-bug).

leaf-cast (lef'kast), n. A disease of young pine-trees and seedlings which causes the leaves to fall: due to the fungus Lophodermium Pinastri. See *Lophodermium, *needle-cast,

and *casting, 11.

leaf-caterpillar (lef'kat'er-pil-är), n. The cotton-caterpillar, the larva of Alabama argillacen. See *Alabama. [Southern U. S.]

lacea. See *Alabama. [Southern U.S.]

leaf-chafer (lef'chā'fer), n. Any leaf-eating scarabæid beetle.—Lamellicorn leaf-chafer, any scarabæid beetle which feeds on leaves; specifically, any member of the subfamily Melolonthins, which includes the May-beetles, and of the subfamily Pleurostict of Horn. See pleurostict.—Marginad leaf-chafer, a rather small American scarabæid beetle, Anomala marginata, which attacks the foliage of fruit-trees and grape-vines in the southern United States.—Pear leaf-chafer, an American scarabæid beetle, Serica tricolor, which often defoliates pear-trees, especially in the eastern United States.—Shining leaf-chafer, the goldsmith-beetle.

beete. leaf-climber (lef'kli'-mer), n. A lians in which the petiole or blade of the otherwise unmodified leaf is the



unmodified leaf is the irritable supporting organ. Thus Clematis Vitalba and other species are petiole-climbers, varieties of Fumaria officinalis are leaf-blade climbers, and Flagellaria Indica is a leaf-tip climber. See *tendril-climber. leaf-cover (leff kuv*er), n. Same as *litter, 8, and duff 1, 3.

leaf-cure (leff kūr), v. t. To cure (tobacco) after removing the stalks. See extract under **stalk-cure*

*stalk-cure

leaf-curl (lef'kerl), n. A disease of the cherry, peach, and plum, due to various species of Exoascus.-Potato leaf-curl. Same as potato early

leaf-cushion (lef'kush'on), n. See *cushion. leaf-cutter, n. 1. (b) A leaf-cutting ant; one of the tropical or subtropical ants which defoliate trees, as Atta forvens.—Maple leaf-cutter, an American tineld moth, Incurvaria acerifoliella, whose larva perforates the leaves of the maple with elliptical holes, using the removed leaf-substance as a

leaf-fat (lef'fat), n. The fat which occurs in folds or leaves in the body-cavity of an animal which turn brown the leaves of carnations, such as the ox or bog.

leaf-fiber (lēf'fil'bèr), n. The fiber of leaves.

-Leaf-fiber machine. See *fiber!.
leaf-filter (lēf'fil'tèr), n. See *filter!.
leaf-fiea (lēf'fie), n. A flea-beetle or any homopterous insect of the family Psyllidæ; a flea-leave. louse.

leaf-folder, n.—Lesser apple leaf-folder, a tortri-cid moth, Alceris minuta, whose larva folds the young leaves of the apple and skeletonizes them. It is common throughout the southern Atlantic United States.

Leaf-foot bug. Same as leaf-footed *plant-bug. leaf-frog (lef frog), n. A small tree-frog of the genus Hylodes, peculiar to tropical America. The most common species, H. martinicensis, is noteworthy from the fact that it was the first

known instance of a frog the metamorphosis of which took place within the egg.

leaf-gall (lef'gal), n. A gall of leaves.—Trumpet leaf-gall. Same as trumpet-gall.

leaf-gneiss (lef'nis), n. Gneiss composed of quartz and feldspar, in which the quartz is disposed in little parallel leaves among the grains of feldspar.

grains of feldspar.

leaf-gold, n. 2. Native gold in thin, leaf-like

leaf-green (lef'gren), n. Chlorophyl.

leaf-green (lef'gren), n. Chlorophyl.
leaf-hopper, n.—Brown leaf-hopper, Agallia sanguinolenta.—Destructive leaf-hopper, an American leaf-hopper of the family Jassidæ, Cicadula exitiosa, which sometimes seriously damages winter wheat in the southern United States.—Grain leaf-hopper, Diedrocephalus flaviceps.—Rose leaf-hopper, Empoa rosæ, frequently swarming on the leaves of the rose.—Saddle-backed leaf-hopper, Thannotettix clitellarius, which occasionally damages the plum and other fruit-trees. leaflet, n. 4. (c) One of the thin plates or leaves contained in the lung-books of certain spiders. (d) One of the leaf-like branchiæ of certain aquatic insecthopper larvæ.

leaf-midge (lef'mij), n. A midge that infests leaves .- Clover leaf-midge, a cecidomyiid

fly, Cecidomyia trifolii, common to Europe and the United States, whose larves live in the folded leaves of white clover, Trifolium repens.

leaf-mildew (lēf'mil'dū), n. leaf-mildew (leff'mil'di), n. A mildew of leaves.—Cherry-leaf-mildew. Same as cherry-blight. leaf-miner, n.—Apple leaf-miner, a tineid moth, Tischeria matifoliella, whose larva mines the leaves of the apple, blackberry, raspberry, and other rosaceous plants in the eastern United States, forming its pupa within the folded leaf.—Beet leaf-miner, the larva of a by Fegomyia victna, of the family Anthomyidae.—Cabbage leaf-miner. (a) An American drosophilid fly, Scaptomyza dausta, whose larva mines the leaves of cabbage and other cruciferous plants in the southern United States. (b) S. graminum, a congeneric European insect, also occurring in the United States. It is also called imported cabbage leaf-miner.—Clover leaf-miner. See *Agromyza, with cut.—Oak leaf-miner, any one of several species of tineine moths whose larve mine the leaves of oak. More than fifty European species have this habit. Lithocolletis hamadryadella and L. fitchella are two of the commonest North American examples.—Palmetto leaf-miner, the larva of an American tineid moth, Homaledra sabalella. It feeds on the upper surface of the leaf of the saw-palmetto in Florida, destroying the skin as well as the fleshy part of the leaf.—Parsnip leaf-miner, the larva of an American tineid moth, Orniz quadripunctella.—Pine leaf-miner, the larva of an American dineid moth, Paralechia pinifolicila. It is very small and eats the interior of the needles or leaves of pitch-pine and other stout-leaved species of Pinus, causing the needles to turn white.—Tobacco leaf-miner, the larva of a gelleaves.—Cherry leaf-mildew. Same as cherry-blight.



Tobacco Leaf-miner (Phthorimea operculella).

a, moth; b, larva; c, pupa: all enlarged.

(Howard, U. S. D. A.)

echiid moth, Phthorimæa operculella, common to the southern United States and Europe. It makes blotches in the leaves of tobacco and other solanaceous plants. It is known to Southern tobacco-planters as the spit-worm.—White-blotch oak leaf-miner, the larva of an American tineid moth, Lithocolletis hamadryadella. It mines between the two surfaces of the leaves of several species of oak, making white blotches, which are often so abundant as perceptibly to whiten the foliage of a large tree. elliptical locase.

leaf-door (lef'dor), n. A folding door.

leafery (lef'fer-i), n. [leaf + -ery.] Leafage; leaf-mite (lef'mit), n. 1. Any mite of the family Tetranychidæ; a red spider.—2. Any leaf-fall (lef'fâl), n. The fall of the year; blister-mite, or gall-mite of the family Eriophyidæ (formerly Phytoptidæ).

cotton, grapes, melons, and other plants. Also called white mold, because of the white patches produced on the under side of the discolored leaves. Some of the hosts, with their specific leaf-molds, are as follows: carnation, Heterosporium echinalatum; cotton, Ramularia areola; grape, Septosporium heterosporium; horse-radish, Macrosporium herculeum.

eaf-mosaic (lēf'mō-zā'ik), n. Same as mosaic

leaf-red (lef'red), n. A red pigment found in leaves; erythrophyl.

leaves; erythrophyl.

leaf-roller, n.—Basswood leaf-roller, an American pyralid moth, Pantographa limata, whose larve roll the leaves of basswood into tubes, within which they live. The moth is straw-colored, with olive markings and a purplish iridescence, and occurs in North, Central, and South America.—Box-elder leaf-roller, the larva of Archips semiferana.—Fruit-tree leaf-roller, a moth, Archips argyrospila, whose larve injure the foliage and fruit of the apple, pear, and strawberry.—Grape-vine leaf-roller, a pyralid moth, Desmia funeralis, whose larve live in folded grape-leaves.—Neat strawberry leaf-roller, the larva of Exartema permundanum.—Oblique-banded leaf-roller, a torticid moth, Archips rosaceana, inhabiting the northern United States from Colorado eastward, where its larve roll the leaves of various rosaceous plants, including many important fruit-trees. The adult is brown in color, with its fore wings banded with contrasting shades of the same color.—Orange leaf-roller, the larva of Platynota rostrana.—Peach leaf-roller, the larva of rothips persicana.—Raspberry leaf-roller. Same as neat strawberry *teaf-roller.araa, infesting clover.

leaf-rust, n.—Orange leaf-rust, a disease of wheat and similar grasses, due to Uredo rubigo-vera.—Pine leaf-rust, a fungous disease of pine-leaves, caused by Coleosporium Pini.

leaf-scar (lef'skär), n. The scar left on a trunk after the fall of the leaf. In fossil trunks these are of high diagnostic importance,

and the term is chiefly used by paleobotanists. See scar1, 4, and compare leaf-*cushion and *leaf-base.

One [specimen] represents an upper portion of the stem with leaf-scars and remains of petioles; another a lower portion, with aerial roots.

Dawson, Geol. Hist. of Planta, p. 94.

leaf-scorch (lēf'skôrch), n. A fungous disease of the leaves of the cherry, causing a scorched and withered appearance. It is most destruc-

and withered appearance. It is most descrictive in Europe and is attributed to Gnomonia erythrostoma. See *Gnomonia, with cut.

leaf-sewer (lef'sō'er), n. Same as leaf-roller.—Chapin's apple leaf-sewer, an American tortricid moth, Ancylis nubeculana, whose larva sews together the leaves of the apple.

the leaves of the apple.

leaf-spot, n. 2. The common name given to a large number of fungi which produce spots upon the leaves of plants. A few of the hosta, with their specific leaf-spota, are as follows: alfalfa, Pseudopeziza Medicaginis; apple, Phyllosticta pirina; blackberry, Septoria Rubi; egg-plant, Phyllosticta hortorum; lettuce, Septoria consimilis; maple, Phyllosticta acericola.—Angular leaf-spot, a bacterial disease of cotton leaves characterized by the formation of watery angular spots

watery angular spots bounded by the vein-lets of the leaf. lets of the leaf.—
Black leaf-spot, the
Black leaf-spot, the
Black leaf-spot, the
Black leaf-spot maples produced by Rhytisma acerinum.—
Cherry leaf-spot, a
fungous disease of the
cherry due to Cylindrosporium Padi or
Cercospora cerasella.
—Clover leaf-spot,
a disease of clover due
to the fungus Phul. to the fungus Phyllachora Trifotii.—
Leaf-spot of pea, a fungous disease due to Ascochyta Pin, occurring upon the leaves and vines of the pea.—
See *Ascochyta.—
Leaf-spot of violet, a fungous disease of the violet caused by either Phyllosticta idia which have broken through the Violes of Alternatia upor epidermis (enlarged); c, section of peritheclum, showing asci within case.—Quince leaf-spot, a fungous disease of quince-leaves caused by Entomosporium maculatum.—Rose leaf-spot, a fungous disease of rose-leaves caused by Mycosphærella rosigena.—Strawberry-leaf-spot, a fungous disease of strawberry-leaves caused by Mycosphærella Fragariæ.

leaf-table (lef'tā'bl), n. A table with a leaf the fungus Phyl-



leaf-table (lef'tā'bl), n. A table with a leaf or flap which can be turned up or down; also, an extension-table, that is, one with leaves which can be slipped in or out to vary its size.

which can be supped in or out to vary its size. leaf-tier, n.— Green apple leaf-tier. Same as lesser apple *leaf-tier, the larva of a pyralid moth, Phlyetænia rubigalia, common to Europe, Asia, and the United States. It feeds on the leaves of various plants, especially in greenhouses, and ties the leaves together.

leaf-worm (lef'werm), n. Any saw-fly. leaf-worm (lef'werm), n. Same as *leaf-cat-

ejected tenants provided by the Land League in Ireland. See Land League, under league! leaguer4 (le'ger), n. [Also leager, legar; prob. \(\) D. ligger, G. leger, also legger, a large cask; cognate with E. ligger, lier!.] A large cask; a tun; specifically (naut.), a cask for water holding 159 imperial gallons, carried on vessels before the introduction of water-tanks.

Leaia (lē-ā'yā), n. [NL., named after Isaac Lea.] A genus of fossil phyllopodous crus-taceans of the family Limnadiidæ, characterized by a bivalved carapace, each valve of which is marked by two diagonal ridges radiating from the anterior end of the dorsal margin. Forms of this genus are very numerous in certain Carboniferous beds of Europe and North America.

16ak, n.—Ricctric leak, escape of current from a conductor through its insulation.

16akage, n.—Magnetic leakage, in elect., that part of the magnetic flux of a magnetic circuit which does not traverse the desired path, as in dynamo-electric machines; the magnetism which strays from field-pole to field-pole without passing through the armature; in alternating current apparatus, the self-inductive flux.

leakance (lē'kans), n. [leak + -ance.] In elect., conductance due to leakage through a dielectric or insulator.

It follows that any ordinary telegraph circuit may be made approximately distortionless by adding a certain amount of leakance, or leakage conductance.

Bric., XXXIII. 215.

leak-stopper (lek'stop'er), n. Naut., a device for temporarily covering a hole in the bottom or side of a vessel below water while it is afloat, thus stopping the flow of water into the in-

The ship must sink: unless the power of her pumps is sufficient to overcome the leak; or some means is devised for checking the inflow, by employing a sail, or a mat, or some other leak stopper.

White, Manual of Naval Arch., p. 24.

leal¹ (lēl), adv. [leal¹, a.] 1. Loyally.—2. Thoroughly; exactly.—3. Lawfully. leal² (lā-āl¹), n. [Pg., orig. 'legal': see leal¹, a.] 1. A former silver coin of Portugal, worth 15 cents.-2. A colonial Portuguese copper coin,

cents.—2. A colonial Fortuguese copper coin, worth 16 cents, struck at Goa.

leam³ (lēm), r. [Also leem, leme, limb; perhaps ult. identical with limb¹, v.; cf. Norw. lema, lemma, lima, Icel. lima, dismember.] I. trans.

To separate or remove the shell or husk from

(nuts); shell; husk.

II. intrans. To become separated from the shell, as nuts; to separate easily from the shell or husk.

[Prov. Eng.]

leam³ (lēm), n. [Also limb; appar. a variant of limb¹, with a form and sense depending on the verb leam³.]

[Prov. Eng.] [Prov. Eng.]

leam4 (lem), n. [Origin obscure.] a cut; in the fen district, a watercourse.

leaning-stock (lē'ning-stok), n. In organ-building, a horizontal bar or brace against which the pipes of a stop lean so as to be kept firmly in place: sometimes it is indented to fit the pines.

the pipes.

leap-day (lēp'dā), n. An intercalary day, especially the 29th of February in leap-year.

leaper, n. 4. Naut., a sea that breaks on board a vessel; a wave that leaps over the

leaping (lé'ping), p. a. [ME. lepynge.] That leaps; jumping.—Leaping cucumber. Same as squirting cucumber (which see, under cucumber).

leapingly (le'ping-li), adv. By leaps and

leaping-pole (le'ping-pol), n. A pole used to aid a jumper to increase the length or height of his jump.

of his jump.

leaping-spider (lē'ping-spī'der), n. Any saltigrade spider; a jumping-spider.

leap-work (lēp'werk), n. Any mechanical device for producing intermittent motion.

Learic (lēr'ik), n. [Lear (see def.) + -ic; in punning allusion to lyric.] A name given to a five-line nonsense-verse of the kind used by Edward Lear in his "Book of Nonsense": now called a *limerick (which see).

The Academy (29 July 1809) and Twith not the word to

lea-rig (lē'rig), n. A grassy ridge left unplowed at the end of a plowed field. N. E. D. [Eng. dial.]
lease², n. 4. In Australian mining, a mining

lease², n. 4. In Australian mining, a mining leasehold; a piece of ground leased for the purpose of mining.—Reversionary lease, one which is to become effective at some time in the future.

lease-band (les' band), n. One of the bands or rods which alternately separate the warp-threads in a loom; a lease-rod.

lease-pin (lēs'pin), n. A warping-pin; a pin on a warping-beam for holding the yarn.

leash, n. 4. In physiol., an aggregation of similar cord-like structures, such as fibers, nerves, blood-vessels, etc.

A man for many years had chronic ulcers, small leashes of vessels running across the cornea to the ulcers.

Lancet, May 30, 1903, p. 1516.

leashing (lē'shing), n. 1. The forming of a leash (or lease) in the warp-threads in a loom between the warp-beam and the heddles.—2.

Detween the warp-beam and the heddles.—2. Same as *shaft-lashing.

leasing*4 (lē'sing), n. An erroneous form of *leashing (in weaving).

leather, n. 5. In cricket, the ball. [Colloq.]—6. pl. (a) Wearing-apparel made of leather, as breeches, leggings, etc. (b) One who wears 'leathers.'

leather ground to powder, for use as a manure. The nitrogen which alone gives it value as such to red.

Ripting, The Bonds of Discipline, in Traffics and [Discoveries, p. 47.

[Discoveries, p. 47.

[Public Park (left etc.) and [Discoveries, p. 47.

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"All the coaches are full with the men going down,"
Spavin said.... "Get into my yellow; I'll drop you at
Mudford.... Come along; jump in, old boy—go it,
Thackeray, Pendennis, xx.

Acid leather, leather which retains an appreciable quantity of sulphuric or other mineral acid used to plump or raise the hide in preparation for tanning. Such leather is objectionable for military purposes, as it corredes soldiers socks and causes their accourtements to rust.—Bastard
goatskin in resisting tearing, but the surface is tender and shows many imperfections.—Leather-finishing machine, a machine for glazing, rolling, or pebbling leather.—Leather-measuring machine, a machine for ascertaining the number of square feet in a hide or skin.—Oll-tanned leather, leather made, chiefly from the akin of the sheep, calf, or deer, by partly removing or roughening the grain side of the skin, liming, thoroughly saturating with fish- or scal-oil forced in by beating, exposing to heated air until much of the oil has become oxidized, and removing the surplus unaltered oil by expression or by washing with an alkaline solution. The product is very soft and pilant, and is extensively used for lining cases for silverware, etc., for gloves, for lining articles of clothing, and in various other ways.—Batin leather, in shoemanuf., black leather for uppers, made from hidefinished on the fleeh side. Modern Amer. Tanning, p. 112.—Spanish leather. (b) Decorated leather made in Spain, where the art of stamping and working leather was brought to a high state of perfection.

leather-awl (lewh'er-âl), n. A tool for piercing holes in leather.

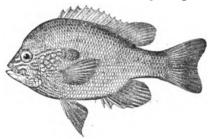
leather-bark (leth'er-bark), n. Same as leather-

leather-bark (leth er-dark), n. Danie as wood, 1. [Rare.]
leather-brown, n. 2. Same as Bismarck or leav, v. and n. A simplified spelling of leave. phenylene brown.—3. A basic coal-tar color of the disazo type, prepared by combining two molecules of diazotized para-acetanilide with molecules of meta-phenylene diamine: paralagula of met one molecules of meta-phenylene diamine: particularly suited for the coloring of leather and jute.—4. A name occasionally applied to jute.—4. A name occasionally applied to *heather-buffer (lefth'ér-buf'ér), n. A machine for grinding or fleshing hides or skins.

leather-bush (lefth'ér-bush), n. Same as leather-oud, 1.

leather-cod, 1.

leather-cod, 1.



Leather-ear (Lepomis megalotis). (From Bulletin 47, U.S. Nat. Museum.)

opercular flap, found in the fresh waters of the

eastern United States.

leather-fish (leTH'ér-fish), n. The file-fish,

Monacanthus hispidus.

leather-hunting (lew'er-hun'ting), n. In cricket, fielding, especially fielding while a large number of runs are made by the oppos-

now called a *limerick (which see).

The Academy (29 July, 1899) and Truth put the word in circulation by proposing competitions on the model of my 'Irish Literary Learies,' which they named expressly.

M. Russell, in N. and Q., 9th ser., XII. 8.

ea-rig (le'rig), n. A grassy ridge left unplowed at the end of a plowed field. N. E. D. [Eng. cooper's-wood, Alphitonia excelsa, the coachwood, Ceratopetalum apetalum, Cryptocarya Meissneri of the laurel family, and Weinman-The larva of any one of several species of crane-flies of the family Cunoniaces.—3.

The larva of any one of several species of crane-flies of the family Tipulids. It lives underground in pasture-lands and has an especially tough skin.

This will kill slugs and leather-jackets.

Masses, Plant Diseases, p. 45. 4. In Australia, a thin pancake made of flour and water.

leatherneck (lewh'er-nek), n. [Eng. naval slang.]

When we played ship's theatricals of Vigo, Glass'ere played Dick beadeye to the moral, though the lower deck wasn't pleased to see a leatherneck interpretin' a strictly maritime part.

R. Kipling, The Bonds of Discipline, in Traffics and [Discoveries, p. 47.

leather-powder (leth'ér-pou'der), n. Scrap leather ground to powder, for use as a manure. The nitrogen which alone gives it value as such is not readily given up in a condition available for plants.

leather-presser (leff'ér-pres'ér), n. In leather-manuf., a press used to remove the grease from skins which are to be used for fancy stock.

spreading tree of bottom-lands, with a hard wood and, at the base of the trunk, a spongy pliable bark, recommended for a styptic.



Leatherwood (Cyrilla racemiflora).
(From Sargent's "Manual of the Trees of North America.")

More often called ironwood and sometimes he-huckleberry, burnwood, or burnwood-bark, and red or white titi. Sometimes called South-

bronze, sometimes of gold and silver, often offered as prize.

but 9

a prize.

lebis (leb'is), n.

[Ar. libis.] A cyprinoid fish, Labeo niloticus, inhabiting the Nile.

Lebistes (le-bis'tēz), n. [NL., said to be based on Gr. \(\hat{\chi}\) [sides, L. lebias, a kind of fish.] A genus of fishes of the family Paciliidæ, found

off the island of Barbados.

lebrancho (le-bran'chō), n. [Cuban Sp.] A cuban name of Mugil brasiliensis, one of the mullets, found in the West Indies and south to Patagonia.

Lecanactidaces (lē-ka-nak-ti-dā'sē-ē), n. pl. [NL., < Lecanactis (Lecanactid-) + -aces.] A. family of gymnocarpous lichens named from the genus Lecanactis. Lecanactis (lē-ka-nak'tis), n. [NL. (Eschweiler,

1824), < Gr. λεκάνη, a dish, dish, + ἀκτίς, a ray. The name alludes to the form and appearance of the apothecia.] A genus of simple crustaceous gymnocarpous lichens having disciform scattered or gregarious apothecia and hyaline, spindle-shaped, 2- to 16-celled spores. About 50 species are known. They occur on rocks and tree-trunks and tree-trunks.

Lecanitida (lek-a-nit'i-dä), n. pl. [NL., < Gr. λεκάνη, a dish, + .ites + .ida.] A subdivision of the ammonoid cephalopods of the suborder Discocampyli. It comprises genera with compressed discoidal and involute shells. The primitive representatives have entire sutures with broad, rounded saddles and narrow lobes, while the more complicated have prolonged

while the more complicated have prolonged lateral suture-lines and an indefinite number of inflections of the saddles.

Lecanium, n. 2. [l. c.] A scale-insect of the genus Lecanium or of an allied genus.—
Peach lecanium, Eulecanium persice, which occurs in Europe, Australia, Nova Scotis, and the United States.—
Plum lecanium, Eulecanium prunastri, a cosmopolitan species which occurs in Europe, Japan, and the United States.—Tulip-tree lecanium, Eulecanium tulipierz, an American species which occurs on the tulip-tree, magnolia, and rarely on clover. It forms large masses on the twigs of infested trees and secretes a large amount of honeydew.

Lecanocrinus (lek-a-nok'ri-nus), n. [NL., Gr. λεκάνη, a dish, + κρίνον, a lily (see crinoid).] A crinoid genus belonging to the family Ichthyocrinidæ, which, like Ichthyocrinus, ap-pears as a solid body when the arms are closed, except that the posterior rays of the six brachials are not in contact, but are separated by anal plates. The genus occurs in the Silurian of North America.

Lecanoraceæ (lek'a-nō-rā'sē-ē), n. pl. [NL., \(\text{Lecanora} + -aceæ. \)] The proper form of the name of the lichen family, based on the genus

name of the lichen family, based on the genus Lecanora. See Lecanorei. Le Chatelier's law of radiation. See *law¹. leche², n. Same as *lichi². Lecher system. See *system. lechosa (lā-chō'sā), n. [Sp. lechosa, milky, < leche, milk.] In Porto Rice; the papaya, or

papaw, Carica Papaya, a tree with milky juice and melon-shaped fruit. See papaw, 1, and Carica.

lechriodont (lek'ri-ō-dont), a. [Gr. λέχριος, slanting, + οδοίς (οδοντ-), tooth.] Having the vomerine teeth in transverse or posteriorly converging rows: contrasted with *mecodont. lechriodont (lek'ri-ō-dont), a.

Lechriodonta (lek'ri-ō-don'tā), n. pl. [NL.: see *lechriodont.] A division of tailed amphibians in which the palatal teeth are restricted to the posterior portion of the vomers and form transverse or posteriorly converging rows.

lechuguilla (lā-chö-gēl'yä), n. [Sp. lechu-guilla, dim. of lechuga, lettuce, < L. lactuca, lettuce: see lettuce.] The name of several species of Agave, especially of A. Lecheguilla, species of Agave, especially of A. Lecheguilla, which yield a valuable fiber and a saponaceous substance of various forms called amole. They are characterized by comparatively narrow, rigid leaves from 10 to 30 inches long which have along their margin a continuous toothed horny border. The flower-stalk, rising to a height of from 5 to 8 feet, bears comparatively slender spike of flowers. Generally speaking, these plants grow on the high table-land of north-ern central Mexico, western Texas, and Arizona. Their fiber is often called istle, or Tampico fiber.—Jaumave lechugilla, Agave lophantha, the source of Jaumave istle.

lecimicroönin (les-i-mī-krō'ō-nin), n. $\lambda \dot{\epsilon} \kappa (\theta o_c)$, the yolk of an egg, $+ \mu \kappa \rho \dot{o}_c$, small, $+ \dot{\epsilon} \dot{o} \dot{v}_c$, egg, $+ -i n^2$.] A substance obtained by Béchamp from the yolk of hens' eggs. It is insoluble in water, but may be dissolved by a weak solution of sodium carbonate, and precipitated from this solution by acetic acid.

lecimicrozymase (les-i-mī-krō-zī'mās), n. Hermitrozymase (1881-1811-187-21 mas), n. [OII. $\lambda \ell \kappa u(\theta o_{\gamma})$, yolk of an egg, $+ \mu \kappa \kappa \rho o_{\gamma}$, small, $+ \zeta \ell \mu n$, ferment, + -ase.] A substance obtained by Béchamp from the yolk of hens' eggs. It is precipitated by alcohol from the acetic-acid filtrate from lectinicroonin, and acts as an enzym, liquefying starch rectains.

lecithal (les'i-thal), a. [lecith-in + -al1.] Of

or pertaining to lecithin.

lecithalbumin (les'i-thal-bū'min), n. A compound of lecithin with in + albumin.] A compound of lecithin with an albumin: widely distributed in the animal

world, but individually little known. lecithoblast (les'i-tho-blast), n. [Gr. λέκιθος, yolk, + βλαστός, germ.] A name given to the yolk-cells when they constitute a discrete layer in the embryo: same as endoderm in many

lecithoönin (les-i-thō'ō-nin), n. [Gr. $\lambda \dot{\epsilon} \kappa \iota \theta o_{\mathcal{O}}$, yolk, $+ \dot{\epsilon} \dot{\iota} \dot{\nu}_{\mathcal{O}}$, egg, $+ -i n^2$.] A substance obtained by Béchamp from the yolk of hens' eggs. It is soluble in water, but is coagulated by alcohol.

lecithoproteid (les'i-thō-prō'tē-id), n. [Gr. λέκιθος, yolk, + Ε. proteid.] Same as *lecith-

albumin. lecithoprotein (les-i-thō-prō'tō-in), n. [Gr. λέκιδος, yolk, + Ε. protein.] A compound albumin which results from the union of lecithin

with a protein radical.

lecithozymase (les'i-thō-zī'mās), n. [Gr. λέκιθος, yolk, + ζίμη, ferment, + -ase.] A substance obtained by Béchamp from the yolk of stance obtained by Beenamp from the yolk of hens' eggs. It is precipitated by alcohol from an aqueous solution, but is not rendered permanently insoluble in water, and acts as an enzym, liquefying starch paste. leck-stone (lek'ston), n. [leck, dial. form of leak, + stone.] A granular variety of traprock found in Scotland and used for the botters of arrors.

tom of ovens.

Leclaire limestone. See *limestone

lec-lex (lek'leks), n. [Prob. southwestern American Indian.] An American tenebrionid

lectlex (lek'leks), n. Lines. American tenebrionid beetle, Asida sordida, found on the alkaline plains of the southwestern United States. Smithsonian Rep. (Nat. Mus.), 1892, p. 568. Lectica (lek-ti'kā), n.; pl. lecticæ (-kē). [L. lectica, < lectus, a couch, bed.] In Rom. antiq., a litter, closed or open, borne by slaves. lectotype (lek'tō-tip), n. [Gr. λ exróc, chosen, $+ \tau t \pi \sigma c$, type.] In the nomenclature of types in natural history, a syntype selected subsequently to the original description, to take the place which in other cases is occupied by a local place which in other c

lecythidaceous (les"i-thi-dā'shius), a. Belonging to the plant-family Lecythidaceæ.

Ledbury shales. See *shale2.

leden, a. A simplified spelling of leaden. ledger1 (lej'er), v. i. In angling, to fish with

ledger-bait.

Ledger bark. See $*bark^2$. ledgering (lej'èr-ing), n. [ledger(-bait) + -ing²] In angling, fishing with ledger-bait. ledger-line (lej'èr-līn), n. In angling, an ar-

edge-rock (lej'rok), n. Rock in place as distinguished from loose fragments.

ledger-stone (lej'er-ston), n. A slab covering an altar-tomb.

ledger-wall (lej'er-wal), n. In mining, the wall underneath a vein.

wall underneath a vein.

ledgit (lej'it), n. [Appar. < ledge¹ + dim. -it
for -et.] 1. The top of the inner half of a window. Banfishire Glossary. [Scotch.]—2. A
slip of paper or parchment projecting from
the edge of a leaf in a book, upon which notes or memoranda may be written. [Scotch.]

leditannic (lē-di-tan'ik), a. [Ledum (see def.) + tannic.] Noting an acid, a tannin, $C_{15}H_{20}$ - $O_{8}(1)$, obtained from wild rosemary, Ledum palustre. It is possibly identical with esculotannic acid.

ledixanthin (lē-dik-san'thin), n. + xanthin.] A compound, C₃₀H₃₄O₁₃(†), prepared by the action of dilute acids on leditannic acid or on esculotannic acid.

ledouxite (le-dő'īt), n. [Dr. A. R. Ledoux, of New York City, + -ite².] A copper arsenide, Cu₄As, containing cobalt and nickel in small amount: found in the Lake Superior copper

ledum camphor. See *camphor. lee'. I. n. 3. In geol., the side of a ledge of rocks which is turned away from the approach of an eroding agent, such as a glacier. other side is the stoss or shock side.

II. a.—Lee anchor, the anchor on the lee bow of a vessel when it is under way: when the ship is at anchor, the lee anchor is the one that is not dropped.—On the lee beam, bearing to leeward (of a vessel) at or nearly at right angles to the line of the keel.

leeangle (lē'ang-gl), n. [Also leangle, liangle, langeel, leonile; Australian langeel, leonile; langeel, leonile; < Australian langeel, leanguel; also in other forms, represented by *leawill, q. v.] A club of the native Australians. bent at the striking end: similar to a pickax with a

single pick. E. E. Morris, Austral English.

leech², n.—Skate leech, a large, spinose, greenish leech, Pontobdella muricata, parasitic upon skates and sharks.

leechery (lecher-i), n. [leech1 + -ery.] The healing art. leech-extract (lech'eks'trakt), n.

An extract prepared from leeches: it

has hemolytic properties.

leech-glass (lēch'glas), n. A glass tube in which a leech is placed, the open end being applied to the part where it is desired to make the leech

where it is desired to make the leech take hold.

Leech-line block (naut.), a block, secured to the yard, through which the leech-line is reeved.—Mixxen leech-lines, the leech-lines which lead from the leeches of the square sails to their respective yards on the mizzen, and thence to the decks, and are used for gathering the sides (leeches) of the sails toward the yards and masts in furling.

Leechwort (lēch wert), n. The ribwest or riborses. Plantanologeolatus.

wort or ribgrass, Plantago lanceolata.

Leeds ware. See *ware2. leefang, n. (b) A deck-horse. See

leeds ware. See *ware*.
leefang, n. (b) A deck-horse. See horse!, 8 (d).
leek, n. 2. Polytelis burrabandi, a small parrot, green with a scarlet breast. Also called green-leek. [Local, Australia.]—Native leek, in Australia, Bulbine bulbona, a plant of the lily family, bearing bright-yellow flowers. It is very poisonous to horses and cattle. Called also native onton and, in Tasmania, yellowity.

atural size (after Bourne).

Bourne). (From Cambridge Natural

East a Dit o currie-Dhaut,—and she thrust the dish towards me.

Thackeray, Major Gahagan, i.

leery 2 (lēr'i), a. Empty, in any sense: as, a leery eart; to be leery and tired.

'I've been strolling in the Walks and church-yard, father, till I feel quite leery.

'I won't have you talk like that!' he thundered. "Leery," indeed. One would think you worked upon a farm!'

T. Hardy, Mayor of Casterbridge, xx.

Leeway indicator, a metal segment of a circle marked with the points of the compass and placed on the taffrail of sailing vessels. Its zero-line agrees with the keel line of the ship, and the bearing of the axis of the wake from this zero point shows the leeway, which is reckoned in points and quarter-points.

rangement of fishing-tackle in which the lead leg, n. 2. (b) In telephony, a wire used for conrects on the bottom.

ledge-rock (lej'rok), n. Rock in place as dismain switchboard.—8. Same as water-leg.—9. main switchooard.—8. Same as water-teg.—9. In mach.: (a) The movable case which contains the bucket-belt or -conveyer of a grain-elevator. (b) The tube in which the grain is lifted into an elevator.—10. In mining, a peculiar form of quartz-reef, forming a nearly vertical prolongation of the saddle. E. E. wertical prolongation of the saddle. E. E. Morris, Austral English.—11. A tongue-like portion of some geologic formation which projects from the main mass or intrudes others. The term is a local one used in England for such relationship in different drift deposits. J. Geikie, The Great Ice Age, p. 362.—12. A play in which 'leg-business' is a prominent feature. play in which 'leg-business' is a prominent feature. [Theat. slang.]—Deep square leg, in cricket: (a) A fielder at right angles with the batanan's wicket and at a distance from it on the legaide. (b) His position in the field. Hutchinson, Cricket, p. 65.—Good leg (naut.), a satisfactory course.—Lawn-tennis leg, rupture of some of the fibers of the muscles of the calf by overstrain in playing lawn-tennis.—Leg along (naut.), the leading out of a rope that is to be hauled on. [Eng.]—Legs and wings (naut.), and of a ship when its mastare of extraordinary height and its yards very wide, that is, an oversparred and oversalled vessel.—Leg ball. See *koll!.—Leg-before-wicket* in cricket. A bataman is out leg-before-wicket if with any part of his person he stops the ball which, in the opinion of the umpire at the bowler's wicket, has been pitched in a straight line from it to the striker's wicket and would have hit it.

The law of leg-before-wicket has also been much discussed, owing to the general objection to the growing habit of deliberately putting the body or legs in front of a breaking ball instead of playing it with the bat.

Encyc. Brit., XXVII. 277.

Leg-of-mutton sail. Same as shoulder-of-mutton sail (which see, under sail).—Legs of the martinets (matt), an old name for the two ropes fastened to the leech-rope of a course and spliced together.—Off the left leg, in golf, that stance assumed by a player by which the ball is played on a line with the left foot.—Off the right leg, in golf, that stance assumed by a player by which the ball is played relatively near to the right foot, with the right leg advanced.—Scissors legs. Same as **xcrisor-leg.—Shear legs, the spars which form a pair of shears.—To keep one's legs. Same as to keep one's feet (which see, under keep).—To make a leg. (b) Naut., to sail on a tack.—To pull a person's leg, to fool or humbug him; to 'do' or obtain money from a person by imposing on his creduity. (Slaus.)

leg. An abbreviation (b) of legislative or legislature; (c) of legal; (d) of legate; (e) of the Latin legit, he reads; (f) of legunt, they read. Latin legit, he reads; (f) of legate; (c) of the Latin legit, he reads; (f) of legant, they read. legacy, n.—Absolute legacy, a legacy, without condition, which vests immediately upon the death of the testator.—Alternate legacy, a legacy in which one of two or more things is bequeathed without designating which.—Conditional legacy, a legacy which will vest only upon the fulfilment of some condition precedent or subsequent.—Indefinite legacy, a legacy in which things not enumerated or ascertained as to amounts, quantities, etc., are bequeathed, as a bequest of unenumerated chattels, or all shares in a certain company, or a fund that may be on deposit in a certain bank, etc. A residuary legacy is usually of this class.—Lapsed legacy, a legacy which, by the death of the legatee before the testator dies or before some certain event, can never vest.—Legacy by damnationi, in civil law, a legacy in which the testator charged his helf to give a certain thing to a certain legatee. It afforded the legatee a claim against the heir, but prior to delivery no right of property in the thing bequeathed.—Modal legacy, a legacy in which the will directs a particular method of applying the legacy for the benefit of the legatee, as a certain sum to be used for educating a certain person, etc.—Bubsitutive legacy, a gift by will or codicil intended to take the place of one already made in either.—Universal legacy, in civil law, a single bequest by which a testator disposes of his entire estate.

legacy (leg'ā-si), v. t.; pret. and pp. legacied, ppr. legacyiā-si. [legacy, n.] 1. To bequeath; assign as a legacy.—2. To leave a legacy to. legalistic (lē-gal-is'tik), a. [legalist + -ic.] Pertaining to legalism or to legalists.

It (book of Jubilees) is really an Haggadic commentary on Genesis, and is practically the sole monument of legalistic Pharisaism belonging to the latter half of the 2nd century B.c., and is a characteristic example of that form of religion against which the Pauline dialectic was directed. It has a secret apologetic aim. It defends and justifies the assumption of the high priesthood by the Maccabees.

Encyc. Brit., XXV. 487.

legality, n. 3. A gambling game. [Slang.] Le Gascon style of bookbinding. See *style1. legatary, n. II. a. Pertaining to or of the nature of a legacy.

legate (le-gat'), v. t.; pret. and pp. legated, ppr. legating. [L. legare, pp. legatus, send, appoint, bequeath: see legate, n.] To bequeath; give by will; give and bequeath.

logatee, n.—Residuary legatee. See residuary deriee, under residuary.

legationary (lē-gā'shon-ā-ri), a. [legation + -ary1.] Pertaining to a legation.

bull; a legative commission.—2. Same as legatine, 1 and 2.

 Π_{\uparrow} . n. A legate. [Once, in a figurative se.] N. E. D.

use.] N. E. D.

Legato touch, a style of playing, especially on the pianoforte or organ, that produces a smooth, legato effect: opposed to staccato touch.

opposed to staccate touch.

legatorial (leg-a-to'ri-al), a. [legator + -ial.]
Of or pertaining to one who leaves a legacy; pertaining to a legacy.
legatory, n. An obsolete form of legatary.
leg-break (leg'brāk), n. In cricket, a ball which breaks from the leg, that is, a ball which, after it has pitched, alters its course, or twists (as viewed by the bowler), from right to left. R. H. Lyttelton, Cricket and Golf, p. 100.
legendarian (lej-en-, or lē-jen-dā'ri-an), n. [legendary + -an.] 1. The writer of a legendary; a chronicler of the saints.—2. One who regards early history, especially gospel history, regards early history, especially gospel history,

as legendary.

legendry (lej'en-, or lê'jen-dri), n. [legend +
-ry.] The realm of legend; legends collectively; mystic inscriptions or symbols.

tively; mystic inscriptions or symbols.

leg-gland (leg'gland), n. A gland in the basal joint of the leg of Branchippus, and in the terminal joint of the leg in many insects.

legicide (lej'i-sīd), n. [L. lex (leg-), law, + -cida, < cædere, kill.] An abolisher or destroyer of law or the laws.

legific (lē-jif'ik), a. [L. lex (leg-), law, + -ficus, < facere, make.] Law-making.

legiformalt (lej'i-fôr-mal), a. [L. lex (leg-), law, + forma, form, + -all.] Of a legal form or character. N. E. D.

leg-ill (leg'il), n. An inflammation of the interdigital space of the feet of sheep, followed by swelling, erosions, and severe lameness. by swelling, erosions, and severe lameness. legionry (le'jon-ri), n. [legion + -ry.] Gathered legions; legions collectively.

ered legions; legions conecuvery.

legislation, n.—Attractive legislation, legislation which puts a premium on socially useful conduct: opposed to negative or repressive legislation, which enacts penalties for socially harmful conduct: especially, legislation which fosters education and enlightenment. L. F. Ward, Dynamic Sociol., II. 236.

legislational (lej-is-la'shon-al), a. Pertaining to, resulting from, or of the nature of legislation.

legitimate, a. II. n. 1. By ellipsis, legitilegitimate, a. II. n. 1. By ellipsis, legitimate drama (which see, under legitimate).—2†. An emigrant to Australia who had 'legal reasons' for emigrating. [Slaug.]—3. A legitimate child.—4†. Something to which one has a legal right. Milton, Eikon., 31. N.E.D. legitimature (lē-jit'-mā-tūr), n. [legitimate, v., +-ure.] An office or dignity to which one has a legitimate title. Carlyle, Fred. the Great, VI 144. N.E.D.

has a legitimate title. Carlyle, Fred. the Great, VI. 144. N. E. D.
legitime, n. H. a. 1. Legitimate.—2. Genuine, as opposed to adulterated or spurious.—
3. Orderly; conforming to legal usage.
legitimistic (lē-jit-i-mis'tik), a. [legitimist + +-ic.] Maintaining or inclined to the principles of the Legitimists.
legitimity (lej-i-tim'i-ti), n. [F. légitimité; as legitime + -ity.] Legitimacy. Landor, Imag. Con., III. 457. N. E. D.
legoa. (lā'gō-ā), n. The Portuguese form of

legoa (lā'gō-ā), n. The Portuguese form of league?.

league².

legplek (läg'plek), n. [Cape D., < leggen, lie, + plek, a place.] A pen or inclosure for cattle. [South African Dutch.]

leg-rope (leg'rōp), v. t. In Australia, to rope or lasso by the leg with a noosed rope.

leg-ropes (leg'rōps), n. Same as *Bauera, 2.

leg-stump (leg'stump), n. See stump, 5.

leguant (le-gwän'), n. [D. leguaan, < F. Viguane or le guane: le, the, iguana, guane, iguana: see iguana and guana¹.] The iguana.

legumelin (le-gū'me-lin). n. [legume + -el + legumelin (legu'me-lin), n. [legume + -el + -in².] A proteid which is said to be present in the pea and other leguminous seeds: it is probably a mixture consisting chiefly of nu-

cleo-albumins. leg-vise (leg'vis), n. In mech., a bench-vise which is partly supported by a leg reaching to the floor.

leg-worm (leg'werm), n. A guinea-worm, the

leg-worm (leg'werm), n. A guinea-worm, the female of which lives coiled up in the subcutaneous tissues, usually of the legs, and gives rise to painful tumors.
lehal (le-häl'), n. [N. Amer. Indian.] A guessing game of the Indians of Oregon, Washington, and British Columbia, played with two

small bones one of which is marked. The bones are hidden in the hands of the players, and the object of the game is to guess in which hand the marked bone is.

lehm (lām), n [G.] Loam: sometimes used technically for untransported fragmental pro-

ducts of the superficial decay of rocks which resemble loess.

The true loess is distinguished from another, lehm, which Falsan recognizes as the product of atmospheric action, formed, in fact, in place from the disintegration and decomposition of the subjacent rocks.

Smithsonian Rep., 1890, p. 227.

lehua (lā-hö'ä), n. [Hawaiiau.] A native name for a myrtaceous tree, Metrosideros polymorpha, found in the Hawaiian, Marquesas, Society, Samoan, Fiji, and Kermadec islands. It bears beautiful red flowers, which are much prized by the natives. The wood is very hard, furnishes the best fuel, and is also used for building purposes. Many of the old idols were made of it. Also called ohia-lehua. See

*ohia.

lei (lā'ē), n. [Hawaiiau.] Any ornamental dress for the head or neck, especially a necklace or a wreath of leaves and flower

leibzoll (lip' tsől), n. [G., $\langle leib$, body (see life), + zoll, tax (see toll).] A personal tax whenever he crossed the boundary of a city or petty state. It was removed in Prussia in 1790 and in other German states in 1803.

He [Joseph II.] abolished the *Leibzoll*, night-notices, assport regulations, and gave the Jews permission to sarn trades, art, science, and, under certain restrictions, griculture. *Encyc. Brit.*, XIII. 685.

Leicester (les'tèr), n. The name of a shire in England: applied distinctively (a) to a breed of sheep having a long, tapering head, deep chest, round body, thin skin, and fine white wool; and (b) to a breed of cattle, practically the same as the longhorn. This breed, as also the Leicester sheep, was brought into prominence by Robert Bakewell, a noted breeder of the eighteenth century.

Leichhardt's bean. Same as Queensland *bean.—
Leichhardt's tree. See *tree.

leidytte (li'di-it), n. [Named after Dr. Joseph

Leidyite (lī'di-īt), n. [Named after Dr. Joseph Leidy (1823-91) of Philadelphia.] A hydrous silicate of aluminium, ferrous iron, magnesium, and calcium, occurring in green incrustations consisting of fine silky scales: found in Pennsylvania.

Leimacopsidæ (lī-ma-kop'si-dē), n. pl. [NL. \[
 \left(\textit{Leimacopsis} + \text{-id\overline{\sigma}}. \]
 \[
 \]
 A family of terrestrial triclad turbellarians, having the dorsal face very convex and the mouth in the anterior part of the body. It contains the genus Leimacopsis. Leimacopsis (li-ma-kop'sis), n. [NL. (Diesing, 1862), < Gr. λείμαξ, a snail, + ὁψε, appearance.] The typical genus of the family pearance.] T Leimacopsidæ.

leimtype (līm'tīp), n. [G. *leimtyp, leimtypie, < leim, glue, gelatin, + typ, type.] In photog., a process in which gelatin prints in high relief are used for direct printing in the ordinary letter printing-press. Woodbury, Encyc. Dict. of Photog., p. 259. leimtype (līm'tīp), n.

leiocome (li'ō-kōm), n. [Gr. λεῖος, smooth, + κόμμι, gum.] Dextrine or starch-gum: made by heating starch cautiously until it becomes entirely soluble in water, furnishing a thick mucilaginous solution.

mucilaginous solution.

Leiocottus (lī-ō-kot'us), n. [NL., < Gr. λεῖος, smooth, + NL. Cottus.] A genus of Pacific shore-fishes belonging to the family Cottidæ. leiodermia, n. See *liodermia.

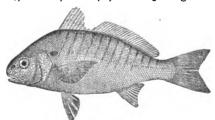
Leio gum. See *guml.
leiomyoma, n. See liomyoma.

Leiopathes (lī-op'a-thēz), n. [NL. (Gray, 1840), < Gr. λεῖος, smooth, + πάθος, condition, quality.] The typical genus of the family Leiopathidæ.

Leiopathidæ. (lī-ō-path'i-dē), n. pl. [NL., < Leiopathes + -idæ.] A family of zoantharians, of the order Antipathidea, in which 12 mesenteries are present in the oral cone. It contains the genus Leiopathes.

leiophyllous (lī-of'i-lus), a. [Gr. λεῖος, smooth, + φίλλον, leaf, + -ous.] Having smooth leaves. leiopus, n. See *liopus.

Leiostomus (lī-os'tō-mus), n. [NL., < Gr. λεῖος, smooth, + στόμα, mouth.] A genus of



(From Bulletin 47, U. S. Nat. Museum.)

sciænoid fishes found on the South Atlantic and Gulf coasts of the United States.

leiphamic (li-fam'ik), a. [NL. leiph(æmum) + am(ine) + -ic.] Derived from the lichen Hæmatomma leiphæmum.—Leiphamic acid, a lither compound, C₂₂H₄₆O₅, contained in the lichen Hæmatomma leiphæmum.

Leishman-Donovan body. See *body.

Leiter's coil. See *coil'.
Leithakalk (li't a-kälk), n. [G., 'Leitha limestone.' The river Leitha is a tributary of the Danube.] In geol., a subdivision or phase of sedimentation of the Miocene series in Austria. The rock is a reef limestone largely composed of corals, calcareous alge, and bryozoans, with great numbers of mollusks, sea-urchins, and other reef-inhabiting animals. At the edges of the Vienna basin, in which it lies, the rock becomes sandy and conglomerate (Leithaconglomerate).

leitmotive; (G. leitmotiv, Leitmotive) In music, a leading motive (which see, under leading).

leitneriaceous (līt'nē-ri-ā'shius), a. Belonging to the plant family Leitneriaces.

Leitneriales (līt-nē-ri-ā'lēz), n. pl. [NL. (Engler, 1897), < Leitneria + -ales.] An order of dicotyledonous archichlamydeous plants

embracing only the family Leitneriaces. lek (lek), n. [lek, v. i.] An assemblage of black cocks, Tetrao tetrix, during the pairing season, when the birds select their mates.

As many as forty or fifty or even more birds congregate at the *leks*; and the same place is often frequented during successive years.

*Darwin, Descent of Man, p. 460.

Bekane (le-kä'nā), n. [Gr. λεκάνη, a dish.] In Gr. archæol., a covered pottery vessel in the form of a tureen, with two handles, sometimes used as a basket or box.

L. E. L. An abbreviation of Laureate in English Literature.

lembergite (lem'berg-īt), n. [Lemberg (see def.) + -ite².] An artificial mineral, a hydrous silicate of aluminium and sodium, 5NaAlSi- $O_4 + 2H_2O$, first described by J. F. Lemberg as nephelin hýdrate.

lemmanee (lem-a-nē'), n. [Also lemone; from an East Indian source.] A fine cotton material made in India. Yule and Burnell, Hobson-Jobson (s. v. piece-goods).

"Lemone Handkerchiefs" were advertised in the Boston Gazette (in 1755). These were of the India cotton ma-terial lemmanee.

A. M. Earle, Costume of Colonial Times, p. 124.

lemming, n. The North American lemmings, 8 or 10 species of which are now recognized, have been divided into two genera, Lemmus and Dicrostonyz, and the species once familiar as Myodes obensis is now Lemmus alascensis. The black-footed lemming, L. nigripes, is peculiar to St. George Island, Bering Sea. The common northeastern species is D. hudsonius.

northeastern species is D. hudsonius.

lemming-mouse (lem'ing-mous), n. One of the small, short-tailed mice of the genus Synaptomys, the best known and most widely distributed being S. coopers. Nine species are now recognized, five of which are included in the subgenus Mictomys.—Cooper's lemming-mouse, Synaptomys cooper, a small mouse resembling the deer-mouse in general appearance, but having a shorter tail. It is common in the eastern United States, and is found from Massachusetts west to Minnesota and south to Georgia. south to Georgia.

lemnaceous (lem-nā'shius), a. Belonging to the plant family Lemnaceæ.

emniscate, n. (e) The locus of the point in which the straight through the center and the projection of a point of a circle on a fixed tangent are cut by the perpendicular from this lemniscate, n. point to the diameter from the contact point. This is the lemniscate of Gerono, a curve of the form of an 8, whose equation in simplest form is $y^4 = y^2 - x^2$.

Lemniscate of Bernoullii. See lemniscate, n. (a).

lemniscoid (lem-nis'koid), n. [lemniscus + -oid.] A curve resembling the lemniscate, that is, shaped like a figure eight. Amer. Jour. Sci., July, 1903, p. 55.

lemniscoidal (lem-nis'koi-dal), a. [lemniscoid + -al¹.] Resembling a *lemniscoid (which see). Amer. Jour. Sci., July, 1903, p. 58.

lemniscus, n. 4. A kind of reference-mark such as the modern asterisk, obelisk, etc., consisting of a straight line drawn between two points or dots (÷), formerly used by textual critics in their annotations.

Lemoine circles, parallels, point, straight. See *circle, etc.

lemon, n.—Desert-lemon. Same as native *kumquat. — Syrup of lemon, a cane-sugar syrup of lemon-juice flavored with lemon peel. It is used as a vehicle in pharmacy. — Wild lemon, in Australia, Plectronia latifolia, a small tree of the madder family, yielding a hard, closegrained, streaked, pinkish wood. lemoncito (lā-mon-se'to), n. Same as *limon-

lemonet, n. See *lemmanee.
lemoniid (le-mō'ni-id), n. and a. I. n. A member of the lepidopterous family Lemoniidæ.
II. a. Having the character of or belonging

to the family Lemoniidæ.

lemon-kali, n. 2. A mixture of bicarbonate of potash with citric acid (originally obtained from lemon- or lime-juice), both in powder and flavored with a little oil of lemon. On addition of water it effervesces from escape of carbon-dioxid gas and produces a drink of mildly laxative effect. See lemon-kali. 1.

lemon-kali, l. lemon-lily (lem'on-lil'i), n. See *lily. lemon-lobelia (lem'on-lō-bē'liä), n. Same as lemon-balm.

lemon-monarda (lem'on-mō-nār'dā), n. A plant, Monarda citriodora, of the dry plains of the western United States. It has somewhat the odor of lemons.

lemon-rob (lem'on-rob), n. Lemon-juice that has been thickened or concentrated by evapo-

has been thickened or concentrated by evaporation. [Eng.]

lemon-scab (lem'on-skab), n. See *scab.

lemon-sole, n. 3. In New South Wales, Paraplagusia unicolor, of the family Pleuronectids or flatfishes; also, in New Zealand, the New Zealand turbot. E. E. Morris. Austral English.

lemonweed, n. 2. In the southwestern United States, Pectis filipes, P. papposa, and P. longipes, small yellow-flowered lemon-scented composites with linear leaves dotted with oilglands. These plants are used medicinally by the Indians and the white settlers, in the form of a decoction. See *limoncillo, 2.

of a decection. See *limoneillo, 2.

lemon-wood (lem'on-wid), n. 1. See lemon wood, under wood!.—2. In New Zealand, the hedge-laurel or tarata, Pittosporum eugenioides. Also called mapau and New Zealand oak. See *mapau and *tarata.

lemony (lem'on-i), a. [lemon + -y¹.] Like lemon in taste or smell.
lemoparalysis, n. Same as *læmoparalysis.
lemuravid (lem-ū-rav'id), n. One of the Lemuravida

lomuravoid (lem-ū-rav'oid), a. Related to or having the characters of Lemuravus.

lemurian² (lē-mū'ri-an), a. Resembling or characteristic of a lemur; lemurine: correlated

lending-house (len'ding-hous), n. A charitable institution for lending money to the poor

table institution for lending money to the poor at a very low rate or gratis.

lendofelic (len-dō-fel'ik), a. [len(ad) + do-(minant) + fel(dspar) + -ic.] In petrog., in the quantitative classification of igneous rocks (see *rock1), noting a division in which the normative feldspars are dominant over the normative lenads (leucite, nephelite, sodalite) within the limits $\langle 1 \rangle$ §.

lenfelic (len-fel'ik), a. [len(ad) + fel(dspar) + -ic.] In petrog., in the quantitative classification of igneous rocks (see *rock1), a division in which the normative feldspars and lenads are in equal, or nearly equal, propor-

lenads are in equal, or nearly equal, proportions, that is, are within the limits (\$) \}.

lengenbachite (leng'en-bäch-it), n. [G. Lengenbach, a small stream in the Binnenthal, Switzerland.] A sulpharsenite of lead with antimony, silver, and copper in small amount; it occurs in thin-bladed crystals, probably triclinic, of steel-gray color and metallic luster: found in the dolomite of the Binnenthal, Switzerland.

length, n. 9. (a) In the brachiopod shell, the distance from the apex of the more projecting valve axially to the anterior margin. (b) In the pelecypod shell, commonly the greatest distance across the shell fore and aft, but more correctly the distance from the beak obliquely along the crescence-line, or line of most rapid growth.—10. In *cricket*:
(a) The distance between the bowler's wicket

and the spot where the ball pitches: said of a ball bowled. (b) The proper distance at which a ball bowled should pitch; a good pitch. [Colleq.]—At arm's length. See *arm1.—Basal length, in eraniom, the distance from the basion to the gnathlon.—Basilar length, in eraniom, the length from the basion to the henselion.—Clear length. See *ectear.—Dental length, in teraniom, the combined lengths of the crowns of the premolar and molar teeth.—Pundamental length, in termom, the distance between the fiducial points of a thermometer after correcting these to what they would have been under the standard atmospheric pressure.—Length ball. See *ball!.—Length bowling. See *bouling?.—Length of an arc. See *arc!.—Measure of length. See *measure.—Merchantable length, in forestry, the total length of that portion of the stem of a tree which can be used under given conditions.—Mesial length, in anat, the distance between the frontal and occipital points. *Hrdlicka, in Amer. Anthropologist, 1901, p. 491.—Optical length of a ray, the product of the distance traversed and the index of refraction.—Palstail length, in craniom., the distance from the medial point on the inner side of the alveolar arch to the posterior medial point of the palatal bones, excluding the posterior masal spine.—Possible merchantable length. See merchantable *length. Trince's lengths, in archery, the ranges of 100, 80, and 60 yards: so named from the Prince of Wales, afterward George IV.—Rupture length, a constant used to express the strength of paper. The breaking stress of a sample is measured by stretching, and the length of a strip of the same paper, equal in width to the sample and having a weight equal to the breaking load, is computed. This length, in kilometers, is the rupture length.

length-height (length'hit), n. Same as altitudinal *index.

Lennham beds. See *bed1. ball bowled. (b) The proper distance at which a ball bowled should pitch; a good

Lenham beds. See *bed1.

lenham beds. See *bed¹.
lenic (len'ik), a. [le(ucite) + n(ephelite) +
-ic.] In petrog., in the quantitative classification of igneous rocks (see *rock¹), having the character of or belonging to the group of lenads (leucite, nephelite, and the sodalites), equivalent to the feldspathoid minerals.

lenigallol (len-i-gal'ol), n. [L. lenis, smooth, + E. gallol.] The trade-name for pyrogallol

+ E. gallol.] The trade-name for pyrogallol triacetate, $C_6H_3(C_2H_3O_2)_3$, prepared by the action of acetyl chlorid on pyrogallol. It forms a colorless crystalline powder and slowly liberates pyrogallol in contact with inflamed skin, hence it is used as a remedy for eczema and similar diseases.

lenirobin (len-i-rō'bin), n. [L. lenis, smooth, + E. (chrysa)robin.] The trade-name for chrysarobin triacetate, $C_{30}H_{23}O_4(OCOCH_3)_3$. It is used instead of chrysarobin in the milder forms of various skin diseases.

lennilite (len'i-līt), n. [Lenni (see def.) + Gr. $\lambda l \theta o_7$, stone.] A greenish orthoclase from Lenni, Pennsylvania.

leno-weaving (lê'nō-wē'ving), n. Same as

characteristic of a lemur; lemurine.

with cebian, pithecian, etc.

Frontal sinuses well marked, cheek and jaw bones very large, orbits large and distant, an unsymmetrical face, the nasal overture of a pheleiform type, and lemurian attachment of the under jaw. Smithsonian Rep., 1890, p. 621.

lemuriform (1ê-mū'ri-fôrm), a. Resembling a lemur: having the characteristics of a lemur. lenad (len'ad), n. [le(ucite) + n(ephelite) + -ad.] In petrog., in the quantitative system of igneous rocks (see *rock'), a standard feldepathoid mineral—leucite, nephelite, or a sodalite.

See Lenaia.

See Lenaia. In geol., a body of ore having a lenticular shape. This type is specially common in metamorphic rocks, such as schists or slates, and is very frequent with magnetic and specular iron ores, pyrites, and some gold-quartz veina. Lenses of magnetite or pyrites often overlap like shingles.

They have revealed valuable ore bodies of two great types, those which occur as *lenses*, roughly parallel to the bedding, and those which occur in fracture or fissure zones. *U. S. Geol. Surv.*, Contrib. to Econ. Geol., 1902, p. 113.

A surface-condenser made of two round,

dished plates bolted together, resembling in form a double-convex lens. [Local, U. S.]

There are no coils in the stills, but the steam is conducted into what are termed "lenses," which resemble a double-convex lens. Sci. Amer., Sept. 5, 1903, p. 165.

There are no coils in the stills, but the steam is conducted into what are termed "lenses," which resemble a double-convex lens. Sci. Amer., Sept. 5, 1908, p. 165.

Bifocal lens, a lens the upper part of which is ground for the correction of distant vision, the lower part for that of near vision in reading, writing, etc. The several parts are either cemented or fused together.—Billet's split lens, an instrument for producing interference-fringes, and showing the effect of a plate interposed in the path of one of the interfering pencils in displacing the fringes. It consists of a lens, l', cut in halves, which and b. separate parts; c. parts joined together. Close together at will by means of a micrometer-screw. Light from a luminous source, c, produces two images,

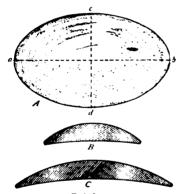




tudinal *index.

lentamente

a and b, close together. The light diverging from these images produces fringes on a screen placed anywhere in their common path, and it is easy to interpose plates of any transparent substance in the path of either or of both simultaneously.—Bull's-eye lens, a very convex lens used in the bull's-eye lantern.—Convergent lens, one which so refracts rays of light that they converge toward a single point.—Convertible lens, in photog., a type of objective consisting of three separate systems, each of which can be used alone, each being corrected for spherical and chromatic aberration and for astigmatism.—Coquilie lens, a lens of uniform thickness, convex on one side and equally concave on the other: used merely as a shield to the eye.—Dispersion lens, a diverging lens; any lens having greater thickness in the aris than at the edge.—Equivalent lens, a single lens which is equivalent to a given lens system in that the image formed by it is of the same size as that formed by the entire system.—Field of a lens, in photog., the illuminated space on a screen produced by any lens working with full aperture. Woodbury.—Midangle lens, a lens having a focal length greater than that of a wide-angle lens and less than that of a long-focus lens.—Marrow-angle lens, a photographic lens having an angle of view of from 40° to 50°: opposed to wide-angle lens.—Narrow-angle lens, a photographic lens having an angle of view of from 40° to 50°: opposed to wide-angle lens.—Oil-immersion lens, a microscope objective of high power which when used is immersed, in focusing, in a drop of oil placed on the cover-glass of the slide.—Planar lens, in photog., a special anastigmatic objective. When of short focal length it is well adapted for instantaneous photography, for enlarging and reducing pictures, and for projection apparatus; when of greater focal length it serves for photomechanical reproduction processes.—Polyscopic lens, a multiplying lens.—R. R. lens, in photog., an abbreviation for rapid rectilinear lens. Woodbury, Encyc.



Toric Lens. A, front; B, section on c, d; C, section on a. b.

ground on one surface, the other surface being ground concave. A periscopic spherocylindric lens is thus produced which is much superior to the universal grindings. lens-board (lenz'bord), n. In photog.. the board which forms the front of the camera and carries the lens.

The focusing arrangement should be by rack and pinion at the side of the lensboard, instead of by a release at the back of the camera, or under the lens and shutter.

Photo-Miniature, Sept., 1901, p. 243.

lensed (lenzd), a. [lens + -ed2.] Fitted with a lens or lenses.

lens-hood (lenz'hud), n. Same as *lens-screen. lens-screen (lenz'skren), n. In photog., a contrivance fitted to the front of the lens to screen off side-light in making exposure. It may be of cardboard.

lens-star (lenz'stär), n. A star-shaped figure formed by radiating fibers of the crystalline A star-shaped figure lens of the eye.

-lent. [L. -lentus (sometimes -lens), usually with the vowel of a preceding stem -n-lentus.
-o-lentus, sometimes -lentus, a compound composed of -l(o)- or -l(i)-, + -entus, -ento-, a suffix connected with the participial suffix -ens (-ent-): see -ent.] A suffix in some adjectives of Latin origin, as flatulent, pestilent, pulverulent, turbulent, vinolent, violent, virulent, etc. It is not used in new English formations.

lentamente (len-të-men'tā), adv. [It., < lento. \(L. lentus, slow. \) In music, slowly; with deliberation.

lentelliptical (lent-e-lip'ti-kal), a. [L. lens (lent-), lentil, + E. elliptical.] Lenticular and elliptical.

Lenten kail, or pie, broth or pie made without mest.

lenten-tide (len'ten-tid), n. The season of

lenticle (len'ti-kl), n. [L. lenticula, dim. of lens, a lentil: see lentil.] In geol.: (a) A stratum of sedimentary rock which from its central point of maximum thickness tapers to a thin edge in every direction; a common form of limestone in shales. (b) A mass of eruptive rock squeezed and sheared into a shape like the typical sedimentary lenticle.

Lenticles or eyes of uncrushed diorite may be traced, round which the more crushed parts have moved and have assumed the schistose condition.

Bucyc. Brit., XXVIII. 654.

lenticula, n. 4. The lenticular nucleus in the leopard-plant (lep'grd-plant), n. See *Ery-

lenticular, a. 3. Of or pertaining to lenses generally.

The lenses revolve at a given speed so proportioned to the diameter of the illuminant, and the lenticular apparatus, that the light is made to show continually.

Sci. Amer., Feb. 7, 1903, p. 98.

Lonticular bed, a stratum of sedimentary rock in the form of a broad, thin lens, as in the case (frequently) of limestones in shales: more commonly called lentil-bed. See *lenticle (a).— Lenticular loop, ore. See *loop1, *wore1.— Lenticular rose spots. See *spot.

lenticularis (len-tik-ū-lā'ris), a. [NL.: see lenticular.] In meteor., a term adopted by the International Conference at Innsbruck, September, 1905, for clouds having an ovoid form with sharp edges: as, cumulus lenticularis, cumulo-stratus lenticularis. Such clouds occur especially in connection with sirocco, mistral and foehn winds, and frequently show rainbow colors.

lenticulate (len-tik'ū-lāt), a. [NL. *lenticu-latus, < lenticula, lentil.] Same as lenticular. lenticuliform (len-tik'ū-li-fôrm), a. [< L. lenticula, lentil, + forma, form.] Lentiform; lenticular.

lenticulo-optic (len-tik'ū-lō-op'tik), a. Hav-

ing reference to the lenticular nucleus.

lenticulothalamic (len-tik'ū-lō-thal'a-mik),

a. Having reference to the lenticular nucleus and the optic thalamus.

lenticulus (len-tik'ū-lus), n. [NL., < L. len-ticula, lentil.] Same as os orbiculare.

lentil, n. 4. A body or mass having the gen-

eral form of a double-convex lens; a lenticular body or mass; a lenticle.

In the southwestern belt there is a line of Devonian limestone lentils which may be traced with many interruptions for over 100 miles.

Amer. Jour. Sci., May, 1903, p. 344.

Lentil-bed. See ★lenticular bed. Lentilla (len-til'ä), n. [NL. (Wight, 1906), a diminutive of lens (lent-), the lentil.] A genus of leguminous plants. It contains about 6 species, one of which is the lentil. See lens, 4,

and lentil, 1. lentil-powder (len'til-pou'der), , powdered seeds of the common lentil.

lentisco (len-tis'kō), n. An extract of the leaves of the mastic-tree, Pistacia Lentiscus: said to be used as a substitute or adulterant for sumac.

lentitis (len-tī'tis), n. [NL., < lens (lent-), lens,

Leonina (lā-ō-nē'nā), n. [NL., < lens (lent-), lens, + -itis.] Same as phacitis.

leonina (lā-ō-nē'nā), n. [It., < Leone, Leo.]
A gold coin of 2 seudi, struck by Leo XII., 1823-29.

leonine, n. 2. pl. Leonine verse.

The Speculum is not . . . written either in classical metre or in leonines.

Saturday Rev., Sept. 21, 1861, p. 306. N. E. D.

leonite (lė õ-nīt), n. [Leo(pold) (see def.) +
-n- + -ite².] A hydrated sulphate of potassium and magnesium, K₂SO₄.MgSO₄ + 4H₂O,
analogous to blödite in formula, and hence also called kaliblodite. It occurs in massive form, rarely in monoclinic crystals, in the salt regions of Leopoldshall and Westeregein, Germany.

rarely in monocanic cycle. Germany.

leontiasic (lē-on-tī'a-sik), a. [leontiasis + -ic.] Lepetidæ (le-pet'i-dē), n. pl. [NL., < Lepeta - idæ.] A family of docoglossate gastropods in leontiasis (lē-on-tī'a-sis), n. [ML., < Gr. λε- οντίασις, < λέων (λεοντ'), lion.] The bloating or enlargement of the head, especially of the lead, especially especiall

cied leonine aspect produced by it.ossea, nodular enlargement of the bones of face. it.—Leontiasis

leopard, n.--Clouded leopard. Same as clouded tiger

(which see, under tiger).

leopardite (lep'ärd-it), n. [leopard + -ite².]

In petrog., a fine-grained feldspathic quartzite,

or quartz-porphyry, spotted with oxid of manganese, occurring in North Carolina.

leopard-lizard (lep'ärd-liz'ärd), n. A large, spotted species of lizard, Crotaphytus wislizenii, common on the dry plains of the western United States from Nevada to Texas.

leopard-mackerel (lep'ard-mak'e-rel), n. A scombroid fish, Cybium guttatum, of East In-

leopard-marmot (lep'ärd-mär'mot), n. A book-name for the 13-lined spermophile, Spermophilus tridecemlineatus.

throchete.

leopard-rock (lep'ärd-rok), n. phosed augite-syenite, characterized by oval spots of granular feldspar encircled by dark-green augite: associated with apatite veins of

leopard-shark (lep'ard-shark), n. A shark, Scylliorhinus canicula, a small species abundant in the Mediterranean and vicinity: so

named from the spots. See cat-shark.

leopard-tree (lep'srd-tre), n. The spottedtree, Flindersia maculosa. See Flindersia.

leopold (le'o-pold), n. 1. The gold ducat of
Lorraine, under Duke Leopold (1690-97).—2. A Belgian gold coin with an issue-value of 25 france

leopoldino (lā'ō-pōl-dē'nō), n. [It.] can silver coin of the value of 5 paoli

Leotia (lē-ō'shi-ā), n. [NL. (Hill, 1751), < Gr. Azio;, smooth (Aziōrīr, smoothness).] A genus of ascomycetous fungi having stalked gelatinous, more or less irregular-shaped ascocarps, and hyaline elongate spores. L. lubrica is a

and hyaline elongate spores. L. lubrica is a common species, of a greenish-yellow color. lepachys (le-pak'is), n. [From Lepachys, an untenable genus name, ⟨Gr. λεπίς, a scale, + παχίν, thick; in allusion to the thickened apex of the receptacular bracts.] Any species of Ratibida, a genus of plants of the family Asteracæ, especially R. columnaris. See *Ratibida. Lepadocrinus (lep-a-dok'ri-nus), n. [NL., ⟨Gr. λεπάς, limpet, + κρίνον, a lily (see crinoid).] A very peculiar genus of cystids, of the family Callocystidæ, with oval or pyriform calyx, consisting of 20 plates (arranged in five rows) and

sisting of 20 plates (arranged in five rows) and a column which consists of two parts, thereby differing from all other associated genera. The genus occurs in the Upper Silurian of North America.

America.

lepamine (lep'a-min), n. [lep(idine) + amine.]

A colorless liquid, C₂₀H₃₂N₂, prepared from isoamyl iodide and lepidine. It boils at 275° C. lepard, n. A simplified spelling of leopard. lepamine (lep'a-min), n.

lepargylic (lep-är-jil'ik), a. [Gr. λεπ(ic), scale, + ἀργυ(ρος), silver, + -l- + -ic. The acid crystal-lizes in white leaflets.] Same as *azelaic

Lepargyrea (lep-är-jī-rē'ä), n. [NL. (Rafinesque, 1818), ζGr. λεπίς, scale, + ἀργίρεος, silvery. The name alludes to the character of the leaf-surface in the type species, L. argentea.] A genus of dicotyledonous plants belonging to the family Elæagnaceæ. See

leper¹ (lep'ér), v. t. [leper¹, n.] To strike with leprosy; leperize; taint with leprosy.

Leperditia (lep-ér-dit'i-ă), n. [NL., from a proper name, Leperdit.] A genus offossil ostracode crustaceans, of the family Leperditiidæ, characterized by oblong unequal valves with straight dorsal edge and rounded ventral outline overlanning ventral adaptive relative training. line, overlapping ventral edge of the right valve, eye-tubercle, and subcentral interior muscular imprint. The genus extends from the Lower Silurian to the Carboniferous.

Leperiza (lep-e-ri'zä), n. [NL. (Herbert, 1821), (Gr. λεπίς, scale, + ρίζα, root.] A genus of monocotyledonous plants of the family Amaryl-

lidaceæ. See Urccolina.
Lepeta (lep'ē-tā), n. [NL. (Gray, 1847).] The typical genus of the family Lepetidæ.

-idæ.] A family of docoglossate gastropods in lepidopteric (lep'i-dop-ter'ik), a. which the ctenidia, pallial branchise, and eyes are absent. It contains the genus Lepeta.

the asteroid Echinodermata, belonging to the order Cryptozonia. It has a rather large disk and 13 arms, and its lower side is covered by imbricating plates which run in two series alongside the ambulacral furrows.

Lepidechinus (lep'i-de-ki'nus), n. [NL., ζ Gr. λεπίς (λεπιό-), scale, + ἐχἰνος, sea-urchin.] A genus of fossil echinoids or sea-urchins A genus of fossil echinoids or sea-urchins which belong to the family Archæocidaridæ. It possesses narrow ambulacra, consisting of two series of imbricating plates and broad interambulacra. The genus is found in the Devonian and Carboniferous of North

Lepidesthes (lep-i-des'thēz), n. [NL., < Gr. λεπίς (λεπιό-), scale, + ἐσθής, dress.] A genus of echinoids or sea-urchins of the family Melonitidæ, characterized by having a large test and broad ambulacra consisting of eight to eight encolumns of small imbricating plates. The genus is found in the Subcarboniferous rocks of North America.

lepidine (lep'i-din), n. [*L. lepidus, fine, neat, +-ine².] A colorless compound,

 $C_6H_4 < \frac{1}{N:CH.CH:CCH_3}$, obtained by the distillation of cinchonine with

potassium hydroxid; py.4-methylquinoline. It has an odor of quinoline, melts below 0° C., and boils at 261-263° C. Also called quino-

lepidine. lepidine² (lep'i-din), a. [Gr. $\lambda \epsilon \pi l \varsigma$ (- $\iota \delta$ -), scale, + - ιne^1 .] Scaly.

lepidine² (lep'1-din), a. [Gr. λεπίς (-io-), scale, + -ine¹.] Scaly. **Lepidion** (le-pid'i-on), n. [NL., < Gr. λεπίδιον, dim. of λεπίς (λεπίδ-), scale.] A genus of fishes related to the codfish, found in deep water in both the Atlantic and the Pacific Ocean.

Both the Atlantic and the Facine Ocean.

Lepidocentrus (lep'i-dō-sen'trus), n. [NL., < Gr. λεπίς (λεπίσ-), scale, + κειτρον, center.] A genus of Devonian echinoids or sea-urchins which belong to the family Archæocidaridæ, characterized by 5 to 11 columns of interambulacral plates and very narrow ambulacra which continue beyond the peristomial margin to the true mouth.

Lepidocoleus (lep'i-dō-kō'lō-us), n. [Gr. λεπίς ($\lambda \epsilon \pi \iota \delta$ -), scale, $+ \kappa \circ \lambda \epsilon \circ \varsigma$, sheath.] A very primitive Paleozoic genus of cirriped crustaceans belonging to the family Lepidocolcidæ. It is characterized by the elongate, blade-shaped form of the shell, which is composed of two series of plates interlocking on the dorsal edge but only in apposition on the ventral edge.

the dorsal edge but only in apposition on the ventral edge.

Lepidodendraceæ (lep'i-dō-den-drā'sē-ē), n.
pl. [NL. (Engler, 1892), < Lepidodendron +
-aceæ.] A family of Paleozoic fossil plants of
the order Lycopodiales, typified by the genus
Lepidodendron (which see). Several other
genera have been described, as Knorria, Halonia, Ulodendron, etc., which, however, are now
heliowed to represent so ments or aspects. believed to represent so many parts or aspects of Lepidodendron; but Lepidophloios seems to be a distinct genus. The roots belong to Stigmaria, but do not constitute all that is included under that name. See all the above terms.

lepidodendrid (lep"i-dō-den'drid), n. Same as **lepidophyte.

Lepidogobius (lep'i-dō-gō'bi-us), n. [Gr. λεπίς (λεπίσ-), scale, + NL. Gobius.] A genus of fishes of the family Gobiidæ, found on the west coast of North America.

Lepidomeda (lep-i-dom'e-da), n. [NL., < Gr. λεπίς (λεπίδ-), scale, + NL. Meda.] A genus of minnows found in Arizona.

lepidophyte (lep'i-dō-fit), n. [Gr. λεπίς (λεπίδ-), scale, + φυτόν, plant.] Any fossil plant of the great group supposed to represent the ancestors of the modern order Lycopodiales, including the families Lepidodendraceæ, Sigillariaceæ, Bothrodendraceæ, etc., or Paleozoic scale-trees.

lepidophytic (lep'i-do-fit'ik), a. Belonging or relating to the lepidophytes.

lepidoporphyrin (lep'i-dō-pôr'fi-rin), n. [lep-ido(tic) + Gr. πορφίρα, purple, + -in².] A purple product which results from the yellow pigment in the wings and excrement of but-terflies (lepidotic acid) on warming with dilute sulphuric acid.

Lepidopsetta (lep'i-dop-set'ä), n. [NL., < Gr. λεπίς (λεπίδ-), scale, + ψήττα, flounder.] A genus of flounders found on the Pacific coast of the United States. See Pleuronectidæ, with

Lepidoptera.— Lepidopteria acid, a derivative of uric acid which forms the green pigment found in several lepidopterous insects. It is converted into uric acid by prolonged boiling in hydrochloric acid.

A scaly out-growth; specifi-cally, the 'horn' on the nose of the Lepidospermæ



sand-viper, Vipera ammodytes. Side view of head of sand-viper (Vipera ammodytes), showing the nasal horn, or lepidosis.

(lep 'i - dō-sper mē), n. pl. [N [NL. (Ward, 1904), < Gr. λεπίς $(\lambda \epsilon \pi i \delta)$, scale, $+ \sigma \pi \epsilon \rho \mu a$, seed.] A class of fossil plants of the phylum *Pteridospermaphyta* (Cycadofilices). They have the external aspect of lepidophytes, but bear seeds instead of macrospores. The genus Lyginodendron, which is now known to have borne the seeds called Lagenostoma, seems to be

Lepidosternidæ (lep'i-dō-ster'ni-dē), n. pl. [NL., \(Lepidosternon + -idæ. \)] A division of the Amphisbænidæ, or footless lizards, formed by Gray for the reception of the genus Lepidosternon and its relatives.

lepidotrichium (lep'i-dō-trik'i-um), n.; pl. lepidotrichia (-\vec{a}). [NL., \langle Gr. $\lambda e\pi i e$ ($\lambda e\pi i e$), scale, $+ \theta \rho i e$ ($\tau \rho i \chi$ -), hair.] One of the rays that form the fins of the bony fishes.

In Teleostomi (bony fishes and ganoids), on the other hand, we find small unjointed, horny rays (actinotrichia) on the edges of the fins, which are probably remnants of the ceratotrichia, and, in addition, branched, bony lepidotrichia, developed externally to the actinotrichia, and in primitive forms closely resembling the body-scales. Nature, May 5, 1904, p. 13.

Lepidotus (lep-i-dō'tus), n. [NL., \langle Gr. λεπιδωτός, scaled, scaly, \langle λεπις (λεπιδ-), scale.]
A genus of fossil ganoid fishes of the family
Semionotidæ, characterized by thick, deeply
imbricating scales with more or less proimbricating scales with more or less produced overlapping edges, and numerous hemispherical successional teeth which make a revolution of 180° in passing from the incipient to the mature condition. The genus ranges from the Keuper to the Lower Cretaceous, and is widespread in Europe, India, Siberia, and

the scales on the pileus.] A large genus of agaricaceous fungi having a fleshy pileus, white spores, and an annuand an annulate stipe. Over
250 species, distributed throughout the world, have
been described. L.
procera, the parasol mushroom, is
a large and beautiful edible species
which has a movable annulus.



Parasol Mushroom (Lepiota procera).
One fourth natural size.

lepismatid (le-pis'ma-tid), n. and a. I. n. An insect of the thysanurous family Lepismatidæ.

II. a. Having the characters of or belonging to the family Lepismatidæ. Also lepismid. lepismid (le-pis'mid), a. and n. Same as *lepismatid.

Lepisosteidæ (lep'i-sos-tē'i-dē), n. pl. [NL., \(Lepisosteus + -idæ. \)] A family of freshwater ganoid fishes commonly known as the garpikes, which are found in North America Lepisosteidæ (lep'i-sos-tē'i-dē), n. pl. and China.

Lepisosteus (lep-i-sos'tē-us), n. [NL., irreg. $\langle Gr. \lambda \epsilon \pi i \epsilon_1 \rangle$, scale, $+ \delta \sigma \tau \epsilon \sigma \nu$, bone.] A genus of ganoid fishes which inhabit fresh waters of North America and China, and are commonly known as garpikes.

lepidopterological (lep-i-dop'te-rō-loj'i-kal), a. Of or pertaining to lepidopterology.
lepidopterologist (lep-i-dop-te-rol'ō-jist), n. Same as lepidopterist.
lepidopterology (lep-i-dop-te-rol'ō-jist), n. [Gr. λέπος, scale, + κύτος, a hollow (a cell), + εἰδος, form.]
lepidopterology (lep-i-dop-te-rol'ō-jist), n. [Gr. λέπος, scale, + λίδος, stone.] A gray to pink variety of anorthite from Finland which occurs in complex crystals. Lindsayite (lindesite, or linseite) is a somewhat altered variety.
Lepidosis, n. 2.
A scaly out-

Lepomins (lep-ō-mi'nē), n. pl. [NL., < Lepomis + -inæ.] A subfamily of sunfishes.

Mis γ - Mis.] A subtaining of summers.

Lepophidium (lep-ō-fid'i-um), n. [NL., ζ Gr. λέπος, scale, + ὁφίδιον, dim. of δφις, serpent.]

A genus of fishes of the family Ophidiidæ; the cusk-eels: found in deep water on both coasts of America.

of America.

Leporidæ, n. pl. Somewhat over 150 species and subspecies of this family have been described, just about one half the number being from North America, where the geographic and climatic conditions are favorable for the production of local races. They have been divided, by Dr. Lyon, into 10 genera: Lepus, Oryctolagus, Sylvilagus, Limnolagus, Brachylagus, Pronolagus, Sylvilagus, Nesolagus, Caprolagus, and Pentalagus. The most remarkable of these are Romerolagus, which has long clavicles and resembles the pikas somewhat, and the heavily built Pentalagus from the Loochoo Islands.

Leporine, a. II. n. Same as leporide.

Lepospondylous (lep-ō-spon'di-lus), a. [Gr. λέπος, a husk, scale, + σπόνουλος, vertebra.]

Having vertebræ consisting of a thin shell of bone surrounding the notochord, a type found

bone surrounding the notochord, a type found in some extinct batrachians.

dosternon and its relatives.

lepidosternoid (lep'i-dō-ster'noid), a. [Lepidosternon+-oid.] Relating to or having the characters of Lepidosternon, a genus of Amphisbænidæ.

lepidotic (lep-i-dot'ik), a. [lepido(p)t(er)ic.] Noting an acid, similar to uric acid, said to be present in the pigments of many species of leprolin (lep'rō-lin), n. [lepra+-ol-+-in².] A toxin which is obtained from cultures of the leproev bacillus.

leprosy bacillus.

leprologist (lep-rol'ō-jist), n. [leprolog-y + -ist.] One who devotes special attention to the study of the nature and origin of leprosy and to its treatment.

leprology (lep-rol'ō-ji), n. [Gr. $\lambda \epsilon \pi \rho a$, leprosy, + - $\lambda o \gamma a$, $\langle \lambda \epsilon \gamma \epsilon \nu v$, speak.] The pathological

study of leprosy.

leproma (le-pro'mä), n.; pl. lepromata (-matä). [NL., < lepra + -oma.] One of the tuber-

cles which occur in leprosy.

leprosy, n.— Anesthetic leprosy. Same as lepra nervorum (which see, under lepra, 1).— Leprosy bacillus. See *bacillus.— Lombardian leprosy. Same as pellagra.— Tubercular leprosy. Same as lepra tuberculosa (which see, under lepra, 1).

Leptæna (lep-tē'nä), n. [NL., < Gr. λεπτός, thin, + -aινa, a fem. suffix.] A genus of extinct brachiopods of the family Strophomenidæ,



Leptæna rhomboidalis Wilchens. Silurian. (From Nicholson and Lydekker's "Palaeontology.")

characterized by convexo-concave shells, the flatter portions of which are covered with corrugations and wrinkles. It rauges from the Silurian to the Carboniferous, and is very

common in certain formations.

leptænoid (lep-tē'noid), a. [Leptæna + -oid.]
Resembling or related to the brachiopod

Leptagonus (lep-tag'ō-nus), n. [NL., < Gr. λεπτός, thin, small, + NL. Agonus.] A genus of agonoid fishes of the North Pacific Ocean.

Leptamnium (lep-tam'ni-um), n. [NL. (Rafinesque, 1818), (Gr. λεπτός, small, + άμνίον, a bowl for sacrificial blood. The calyx resembles a cup.] A genus of dicotyledonous plants belonging to the family Orobanchaceæ. See Epiphegus.

Leptictidæ (lep-tik'ti-dē), n. pl: [NL., < Lep-tictis + -idæ.] A family of small, extinct insectivorous mammals, having trituberculate molars: found from the Eocene to the Oligocene of North America. Gill, 1872.

Leptictis (lep-tik'tis), n. [NL., \langle Gr. $\lambda \epsilon \pi \tau \delta \varsigma$, small, $+l\kappa \tau \iota \varsigma$, weasel.] A genus of small *Insectivores* from the Oligocene (White River) of North America.

Leptilon (lep'ti-lon), n. [NL. (Rafinesque, 1818), ζ Gr. λεπτός, small, delicate.] A genus

of plants of the family Asteraces. It is closely related to Erigeron, but has very small panicled heads, with ray-flowers not longer than the diameter of the disk. There are about 20 species, natives of America and Asia. The name was originally applied to Leptilon divarication, the dwarf fleabane of the eastern United States. L. Canadense, the horseweed or Canada fleabane, is the best known species. See horseweed.

Leptocampyli (lep-tō-kam'pi-lī), n. pl. [NL., ⟨ Gr. λεπτός, thin, + καμπύλος, curved.] A suborder of Jurassic or Cretaceous ammonoid cephalopods, characterized by peculiar crenu-lated ornamentation, discoidal shells, and extremely complex sutures with much reduced saddles and excessively developed lobes.

saddies and excessively developed lones.

leptocephalia (lep'tō-se-fā'li-ā), n. [NL.]
Same as leptocephaly.

leptocephalid (lep-tō-sef'a-lid), n. and a. I.
n. A member of the family Leptocephalidæ.

II. a. Of or pertaining to the Leptocephalidæ.
leptocephalous (lep-tō-sef'a-lus), a. Same as leptocephalic.

leptocephalic. leptocerid (lep-tos'e-rid), n. and a. I. n. An insect of the trichopterous family Leptocerids.

II. a. Pertaining to or having the characters of the family Leptoceridæ.

leptochlorite (lep-tō-klō'rīt), n. [Gr. λεπτός, thin, + χλωρός, green, + -ite.] A name proposed by Tschermak for those members of the chlorite group which commonly occur in fine scales or indistinctly fibrous forms. See also *orthochlorite.

leptoclase (lep'tō-klās), n. [Gr. λεητός, thin, + κλāσις, fracture.] A name proposed by A. Daubrée for the smallest fractures or cracks in rocks. Geikie, Text-book of Geol. (4th ed.),

Leptoclinus (lep-tok'li-nus), n. [NL., \langle Gr. $\lambda \epsilon \pi \tau \delta c$, thin, + NL. *Clinus*.] A genus of blennioid fishes found in arctic seas.

Leptocedia (lep-tō-sō'li-s̄), n. [NL., ⟨ Gr. λεπτός, thin, + κοίλος, höllow.] A genus of extinct Brachiopoda with plicated shallow valves and an internal spiralium. The genus is widespread throughout the world in the faunas of the early Devonian.

Leptoconger (lep-tō-kong'ger), n. [NL., ζ Gr. λεπτός, thin, + L. conger.] A genus of eels of the family Murænesocidæ, found in West Indian waters.

Leptocottus (lep-tō-kot'us), n. [NL., \langle Gr. $\lambda \epsilon \pi \tau \delta \varsigma$, thin, + NL. Cottus.] A genus of cottoid fishes found on the Pacific coast of North America.

Leptodera intestinalis or stereoralis, synonyms for the more common term Strongyloides intestinalis, an intestinal parasite occasionally found in man.

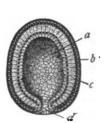
leptodermia (lep-tō-der'mi-B), n. [NL., \langle Gr. $\lambda \epsilon \pi \tau \delta \zeta$, thin, fine, + $\delta \epsilon \rho \mu a$, skin.] Fineness or delicacy of the skin.

leptodermic (lep-tō-der'mik), a. thin skin; relating to leptodermia. a. Having a

leptodermous (lep-tō-der'mus), a. Leptodermic: specifically, in bot. thin-coated: applied especially to the capsules of mosses.

leptogastrula (lep-tō-gas'-trö-lä), n.; pl. leptogastrulæ (-lē). [NL., < Gr. λεπτός, thin, small. + NL. gastrula.] In embryol., a gastrula, like that of Amphiorus which has no food phioxus, which has no food-yolk in the gastrocele and in which the entoderm consists of a simple layer of cella.

leptoid (lep'toid), n. [Gr. λεπτός, thin, + -oid.] A cell of an alga which is differentiated in some way from the surrounding cells. **leptom** (lep'tom), n. leptome.] A specialized conducting tissue in marine algae, whose function it is to transmit organic nitrogenous substances.



Leptogastrula.

Leptogastrula.

The fully formed gastrula of Amphicaxus bisected horizontally the ventral half is represented as seen from above. Magnified. (After Hatschek.)

a. gastrocele: h. ectoderm: c. entoderm: d. hastopore. (From Mashall's "Vertebrate Embryology.")

The tissue developed to meet the demands for conduction in such cases always shows some of the characters described. It is known as leptom, each constituent cell being a leptoid.

Encyc. Brit., XXV. 408.

leptomatic (lep-tō-mat'ik), a. [NL. *leptoma (t-) + -ic. See leptome.] Of, pertaining to, or of the value of leptome.

The primary leptome is no longer visible, but three secondary leptomatic strands have become developed outside each of the primary and secondary rays of hadrome.

Amer. Jour. Sci., Sept., 1907, p. 246.

leptomeningeal (lep"tō-mē-nin'jē-al), a. [Gr.

leptomeninx (lep-tō-mē'ningks), n. The singular of leptomeninges.

leptomere (lep'tō-mēr), n. [Gr. $\lambda \epsilon \pi \tau \delta \varsigma$, thin, small, + $\mu \epsilon \rho o \varsigma$, part.] One of the innumerable minute particles of which Asclepiades supposed the body to be composed.

Leptomeria, n. 2. [l. c.] A delicacy of bodily

Leptomitacese (lep"tō-mī-tā'sē-ē), n. pl. [NL., \(Leptomitus + -acese. \)] A family of fungi of the order Saprolegniales: named from the

genus Leptomitus.

Leptomitus (lep-tom'i-tus), n. [NL. (Agardh, phyl-ine + -y².] The quality or condition of 1824), ⟨Gr. λεπτόμπτος, of fine threads, ⟨λεπτός, thin, + μίτος, thread (filament).] A genus of aquatic fungi, typical of the family Leptomitus, March-July, 1904, p. 237. aquatic fungi, typical of the family Leptomitus, March-July, 1904, p. 237. leptostracous (lep-tos'trā-kus), a. [Gr. λεπτός, thin, + δστρακον, shell.] Having a thin shell, as Nebalia. Leptomitus (lep-tom'i-tus), n. [NL. (Agardh,

Leptonacea (lep-tō-nā'sō-ā), n. pl. [NL., \langle Gr. $\lambda \epsilon \pi \tau \delta \nu$, the small intestine, neut. of $\lambda \epsilon \pi \tau \delta \varsigma$, thin, small.] A superfamily of teleodesmaceous pelecypods which is characterized by having the incurrent and excurrent openings between the mantle-lobes at opposite ends of the body. It comprises Tertiary and recent species, and numerous commensal and parasitic forms.

leptonacean (lep-tō-nā'shian), a. and n. I. a. Of or pertaining to the Leptonacea.

II. n. A mollusk of the superfamily Lepto-

leptopellic (lep-tō-pel'ik), a. [Gr. λεπτός, thin, + πέλλα, bowl (pelvis), + -ic.] Relating to or characterized by narrowness of the pelvis; dollehopelvic. Brinton, Races and Peoples,

Leptophidium (lep-tō-fid'i-um), n. [NL., < Gr. λεπτός, thin, small. + ὁφίδων, dim. of δφις, serpent.] A genus of fishes of the family Ophididæ, found in deep water on both coasts of North America.

leptophonia (lep-tō-fō'ni-ā), n. [NL., \langle Gr. $\lambda \epsilon \pi \tau \delta \varsigma$, thin, $+ \phi \omega v \acute{\eta}$, sound, voice.] Weakness or thinness of voice.

leptophonic (lep-to-fon'ik), a. [leptophonia +

-ic.] Having a voice of small volume or carrying power; pertaining to leptophonia. leptophyllous (lep-tō-fil'us), a. [Gr. λεπτός, slender, + φύλλον, leaf, + -ous.] In bot., having slender leaves.

leptoprosope, n. 2. A leptoprosopic skull or individual.

leptoprosopous (lep-tō-pros'ō-pus), a. [Gr. $\lambda \epsilon \pi r \delta \zeta$, thin, small, $+ \pi \rho \delta \sigma \omega \pi \sigma v$, face, $+ - \sigma u s \omega t$. In anti-rop., having a skull with a facial index of 90 and over. [German anthropologists.] See leptoprosopic.

leptoprosopy (lep-tō-pros'ō-pi), n. [leptoprosop-ous + -y³.] The quality or condition of being leptoprosopous. W. R. Macdonell, in Biometrika, March-July, 1904, p. 214.

leptopterous (lep-top'te-rus), a. Having small, fine, delicate wings. Encyc. Dict.

Leptopuccinia (lep"tō-puk-sin'i-ä), n. [NL., ⟨Gr. λεπτός, thin, + NL. Puccinia.] A division of the genus *Puccinia*, proposed by Schroeter to include those species which form only teleutospores.

leptorrhinian, a. II. n. A person or race having narrow nasal bones. Deniker, Races of Man, p. 63.

of Man, p. 63.

Leptosphæria (lep-tō-sfō'ri-ä), n. [NL. (Cesati and Dē Notaris, 1863), ⟨Gr. λεπτός, thin, small, + σφαῖρα, sphere.] A large genus of pyrenomycetous fungi of the family Pleosporaceæ. The perithecia are small at first and embedded in the host, but finally become more or less superficial. The spores are elongate, three or more septate, and colored. Nearly 500 species have been described. L. Doliolum and many other species are found on dead herbaceous stems. L. Tritici and a few other species are regarded as the cause of certain plant-diseases.

Leptospondwij (lep-tō-spon/di-ji) n. nl. [NI.]

as the cause of certain plant-diseases.

Leptospondyli (lep-tō-spon'di-li), n. pl. [NL., disturbance of nutrition.]

A subgenus of the stegocephalous Amphibia havsubgenus of the stegocephalous of the stegoc ing a persistent notochord inclosed in con-stricted bony cylinders and simple conical hollow teeth. The group includes chiefly small lizards from the Carboniferous and Permian formations.

leptospondylous (lep-to-spon'di-lus), a. [Lep-8.-46

leptostaphyline (lep-tō-staf'i-lin), a. [Gr. κεπτός, thin, small, + σταφυλή, the uvula.] In anthrop., having a skull with a narrow palate the width of which is 80 per cent. or less of its length.

leptostaphylinic (lep'tō-staf-i-lin'ik), a. Same as *leptostaphyline. Jour. Anthrop. Inst., 1901, p. 258.

as Nebalia. Leptostroma (lep-tō-strō'mš), n. [NL. (Fries, 1815), \langle Gr. $\lambda \epsilon \pi \tau \delta \zeta$, thin, $+ \sigma \tau \rho \bar{\nu} \mu a$, layer (see stroma).] A genus of fungi, typical of the family Leptostromataceæ, having dimidiate pyenidia which suggest a thin stroma, whence the name. The pyenidia open by a more or less elongate slit. The spores are hyaline and one-celled. The species occur chiefly on dead leaves and stems. L. punctiforms is regarded as a parasite on leaves of the willow, rose, etc.

Leptostromataceæ (lep'tō-strō-ma-tā'sē-ē), n pl. [NL., < Leptostroma (Leptostromat-) +
-aceæ.] A family of Fungi Imperfecti of the
order Sphæropsidales, characterized by the
dimidiate or shield-shaped pycnidia.

Leptostrophia (lep-tō-strō'fi-ā), n. [NL., < Gr. λεπτος, thin, + στροφή, a turning, < στρέφευ, turn, twist.] A genus of Devonian Brachiopoda of the family Strophomenidæ, remarkable for its large plano-convex or flat shells. It has two pustulose diverging ridges in the pedicel-valve which bound the sides of the muscular area, and broad and flabellate cardinal scars.

Leptothyrium (lep-tō-thī'ri-um), n. [NL. (Kunze, 1823), Gr. λεπτός, thin, + θυρεός, an oblong shield.] A genus of Fungi Imperfecti of the family Leptostromataceæ, closely related to Leptostroma, from which it differs chiefly in the irregular manner in which the pycnidia rupture. About 100 species have been described, mostly found on leaves. L. acerinum occurs on maple leaves in Europe.

leptynite (lep'ti-nīt), n. [F. leptynite (Haüy, 1822), irreg. ⟨Gr. λεπτίνειν, grow thin, + -ite².] In petrog., same as granulite. leren, n. See *lleren.

lern, lernd, lerning. Simplified spellings of

learn, learned, learning. Simplified spellings of learn, learned, learning.

lerpamylum (ler-pam'i-lum), n. [lerp + Gr. άμυλον, fine flour.] A compound resembling manna, said to be present in lerp, the sweet exudation of the leaves of the Australian mallee, Eucalyptus dumosa.

lerp-insect (lerp'in'sekt), n. Any one of a number of Australian homopterous insects of the family Psyllids whose larval cases are composed of a secretion known as 'lerp' or 'laap' and are eaten by the natives. The genera Spondyliaspis and Cardiaspis are especially noted.

lerret (ler'it), n. [Also lerrett, lerrit; etym. unknown.] A boat of great strength, built for the heavy seas: used about the Isle of Port-

The trip in the stern of the lerret had quite refreshed er.

T. Hardy, Trumpet-Major, xxxiv.

leshalom (le-shä-lōm'), n. [Heb. (Yiddish, l'shō'lem): le, prep. to, unto, + shalōm, lit. peace.] A toast among the Jews. The one who treats says (in Yiddish), "lehayim." to a narcotic drug.

The reply is. "lesholem," "unto peace," equiv." lether?, lethern. Simplified spellings of alent to "your welfare." Sometimes both terms are used: as, "lehayim u-lesholem," "to your life and peace."

lethiferal (lē-thif'e-ral), a. [L. lethum, prop. letum, death, + jerre, bear, + -al¹.] Death-bringing; deadly; fatal.

A singular loadstone for theologians, also, is the Beast the same of my studies, I leshalom (le-shä-lom'), n. [Heb. (Yiddish.

lesion, n.—Trophic lesion, a morbid change due to alteration in the blood supply of the part, which causes a disturbance of nutrition.

American botanist of Swiss birth.] A genus of plants of the family Brassicaceæ. See Vesicaria and bladder-pod, 2.

lessive (le-sēv'), n. [F. lessive, < L. lixiva, lye.] An adopted French name for lye: used mainly

tospondyl-us + -ous.] Having the notochordal for an alkaline lye with soap, employed in characters of the genus Leptospondylus. washing.

leptomeningeal (lep"tō-mē-nin' jē-al), a. [Gr. λεπτός, thin, + μῆνιγς, membrane, + -all.] characters of the genus Leptospondylus.

Relating to the pia mater and the arachnoid membrane.

leptomenina (lep-tō-mē'ningks), n. The singular of leptomeninges.

leptomeninges.

leptosporangium (lep"tō-spō-ran'ji-um), n.; lesson-piece (les'n-pēs), n. A piece of material on which to practice needlework. N. E. D. slender, + NL. sporangium.] A sporangium leste (lās'tā), n. [Pg. leste, east wind: l', the, singular of leptomeninges.

lantomera (lep'tō-mēr), n. [Gr. λεπτός, thin, derived from a single epidermal cell.

Leptosporangium (lep"tō-spō-ran'ji-um), n.; lesson-piece (les'n-pēs), n. A piece of material on which to practice needlework. N. E. D. este, east: see east.] The dry, hot, and dusty derived from a single epidermal cell.

In lestiwarite (les-ti-wä'rit), n. [Lestiware, ate Finland, + -ite².] In petrog., a phanerocrystalite line granular syenite composed of microperthite, with very subordinate amounts of pyroxene or amphibole. These rocks have also been called syenite-haplites, and are associated with nephelite-syenite in Norway and Finland. Rosenbusch, 1896.

Norway and Finland. Rosenbusch, 1896.

Lestrigon (les-trī gon), n.; pl. Lestrigones (lestrig o-nēz). [An early modern E. spelling of
*Lestrygon, < L. Læstrÿgon, Lestrÿgon, < Gr.
Λαιστρυγών, pl. Λαιστρυγόνες, a legendary people.]
In Gr. legend, one of a race of cannibal giants
mentioned in Homer's Odyssey; hence, any
inhuman monetar. inhuman monster.

Lestrigonian (les-tri- $g\bar{o}$ 'ni-an), a. and n. [L. Læstrygonius, \langle Gr. $\Lambda a \omega \tau \rho \nu \gamma \delta \nu \iota \sigma , \langle$ $\Lambda a \omega \tau \rho \nu \gamma \delta \nu \iota \sigma , \langle$ see *Lestrigon.] I. a. Of or pertaining to the Lestrigones.

II. n. Same as *Lestrigon.

Lesueuria (les-ū-ū'ri-ā), n. [NL., \(\textit{Lesueur}, \text{a}\)
French naturalist.] The typical genus of the family Lesueuridæ. Milne-Edwards.

Lesueuridæ (les-ū-ū'ri-dē), n. pl. [NL., < Les-ueuria + -idæ.] A family of lobate ctenophorans having the lobes and the lobe-windings of the vessels rudimentary, and the auricles long and ribbon-shaped. It contains the genus Lesueuria.

Lesueuria.

let¹, v. t.—To let draw (naut.), to slack away the sheets of the head-sails when tacking ship, so as to let the clues travel across the deck ready to be sheeted down again to leeward when on the new tack.—To let go and haul (naut.), when tacking a square-rigged vessel, to let go the fore-bowline and lee-head braces, and to haul around the head-yards.—To let go by the run (naut.). Same as to let run (which see, under run¹).—To let go under foot (naut.), to let go (the anchor) so that it drops and remains directly beneath the hawse-plpe.—To let in. (c) To fit, as one timber or plank into another.—To let into. (b) To pitch into; 'go for.' [Slang.]—To let off. (c) To lease in portions; let. [Eng.] (d) In cricket, to miss a chance of catching (a batsman) out.—To let (one) down gently, to let one know something derogatory to himself (letting him down to a lower plane of self-esteem) without damaging his self-respect; spare.—To let one's self go, to abandon self-restraint; allow imagination, animal spirits, or emotion full course. [Colloq.]

He fretted under the severe drudgery of copying plaster

He fretted under the severe drudgery of copying plaster casts, and yearned "to let himself go" in a color way, . . . and so, . . . he set himself to painting that which his fancy dictated.

J. C. Van Dyke, Modern French Masters, p. 183.

let2, n. 2. In lawn-tennis, hand-tennis, and other games played with a net, a service-ball which strikes the top of the net and then goes into the proper court; also, any unforeseen or ac-cidental hindrance of a like nature which the umpire may on appeal so designate.

umpire may on appeal so designate.

Let., Lett. Abbreviations of Lettish.

let-down (let'doun), n. A blow to one's self-esteem; a 'come-down'; a circumstance calculated to let one down, or to act as a drawback. [Colloq.]

Lethal chamber, a chamber filled with noxious gases in which animals are put to death painlessly.—Lethal coefficient. See *coefficient.

lethality, n. 2. Mortality.

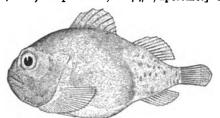
lethalize (le'thal-iz), v. t.; pret. and pp. lethalized, ppr. lethalizing. [lethal + -ize.] To put to death by placing in a lethal chamber. To put

Letharchus (le-thar'kus), n. [NL., < Gr. λήθεσθαι, λανθάνειν, escape notice, + ἀρχός, rectum. The anal fin is wanting.] A genus of ophichthyoid eels found in rather deep water on the Florida coast.

A singular loadstone for theologians, also, is the Beast of the Apocalypse, whereof, in the course of my studies, I have noted two hundred and three several interpretations, each lethiferal to all the rest.

J. R. Lowell, Biglow Papers, 1st ser., vii.

lethomania, n. See *letheomania.
Lethostole (le-thos' tō-lē), n. [NL., < Gr. λήθεσθαι, escape notice, + στολή, stole.] A genus of atherinoid fishes found in fresh waters of



Lethotremus muticus. (From Bulletin 47, U. S. Nat. Museu

genus of fishes of the family Cyclopteridæ, found on the north Pacific coast of North America

letificant (lē-tif'i-kant), a. [L. lætificans (-ant-), ppr. of lætificare, make glad: see letificate.] Tending to stimulate or make cheer-

(-ant-), ppr. of testificary, make cheercate.] Tending to stimulate or make cheerful: said of a medicine.

letoff, n. 3. A festive occasion; a let-off of youthful spirits.—4. Part of a property which is leased or let off. [Eng.]—5. A failure to utilize some manifest advantage in a game; for example, in cricket, the failure on the part of a fielder to get the batsman out when he has the opportunity. N. E. D.

Lett. n. 2. The Lettish language; Lettic.

Lett, n. 2 See Lettish.

letten (let'en), p. a. Let; rented; leased.

Lettenkohle (let'en-kō'le), n. [G., < letten, loam, + kohle, coal.] In geol., a division of the Keuper in the Triassic system in Germany. The name, though usually applied to the formation otherwise termed the Kohlenkeuper, has special reference to the thin seams of earthy coal which this formation con-

the thin seams of earthy coal which this formation contains.

letter³, n.—Before the letter or before letters. See proof before letter, under proof.—Chromatic letter. Same as chromatic type.—Letter of absolution, in eccles. law, a writing whereby formerly an abbot dismissed a monk to another religious order.—Letter of indication. See *indication.—Letter of recall, an official communication in reply to a *letter of or recredentials, an official communication in reply to a *letter of recredentials, an official communication in reply to a *letter of recredentials, an official communication in reply to a *letter of recredentials, an official communication in reply to a *letter of recredentials, an official communication in reply to a *letter of recredentials, an official communication in law, passports ted and addressed to the executive of the representative's country.—Letters of safe-conduct, in law, passports issued under the great seal of England to citizens of a country at war with her, whereby the bearers and their merchandise were free from molestation. English ambassadors can now issue passports having equal value.—Letters of supplement.—Letters requisitory. Same as letters rogatory (which see). [Rare.]—To affect the letter, to devote oneself to alliteration.

I will something affect the letter, for it argues facility.

I will something affect the letter, for it argues facility.

Shak., L. L. L., iv.

letter-ballot (let'er-bal'ot), n. See *ballot1.
letter-board, n. 3. The board or part of a vessel which carries its name and hailing-

letter-bound (let'er-bound), a. Bound by the letter and not the spirit of a law, a text,

letter-card (let'er-kärd), n. A card (not a postal card) which can be closed, stamped, and sent as a letter.

letter-head, n. 3. A postage-stamp. [Dialect,

Eng.]
letter-high (let'er-hi), a. In printing, descriptive of an engraving in relief, properly mounted, as high as the type about it.
lettering; n. 3. Specifically, in bookbinding, the act or process of affixing the alphabetical letters to the notched front margin of an indexed book; also, the addition of the name of the book on its back.

lettering.hlock (let'er-ing-blok), n. The

stamp, usually of engraved brass, which contains the letters stamped on the cover of a

lettering-book (let'er-ing-buk), n. man's, card-writer's, or sign-painter's sample-book, showing styles and varieties of letters used in lettering and (sometimes) also the conventional signs used in map-making, surveys, etc.

lettering-pen (let'er-ing-pen), n. A steel or quill pen adapted to making letters for signs or on cards and maps.

lettering-templet (let'ér-ing-tem'plet), n. A guide used in making letters on cards, signs, or maps with a pen or pencil. It is marked with the letters that can be formed with each of the angles in which the guide is cut.

Lethotremus (le-thot'rē-mus), n. [NL., ⟨Gr. lettering-triangle (let'ér-ing-tri'ang-gl), n. λήθεσθαι, escape notice, + τρῆμα, aperture.] A form of lettering-templet.

A form of lettering-templet.

Lettiga (le-tē'gā), n. [It. lettiga, lettica, ⟨L. lettiga, lettica, a litter, sedan: see litter, n.] A kind of sedan-chair, for two persons, who sit facing each other: carried on long poles by two mules. W. Irving, in Life and Letters, I. 114.

Tetering-tri'ang-gl), n. [prepared by the action of introus acid on leucin. It crystallizes in needles, melts at 73° C. and sublimes at 100° C. Also called 2-hezanolic acid. leucinic (lū-sin'ik), a. [leucinic (lū-sin'ik), a. [leucinic (lū-sin'ik), a. [leucinic acid. leucinosis (lū-si-nō'sis), n. [NL., ⟨ leucin + -ic.] Derived from leucin: as, leucinic acid. leucinosis (lū-si-nō'sis), n. [NL., ⟨ leucin + -ic.] Derived from leucin: as, leucinic acid. leucinosis (lū-si-nō'sis), n. [NL., ⟨ leucin + -ic.] Derived from leucinic acid. leucinosis (lū-si-nō'sis), n. [NL., ⟨ leucin + -ic.] Derived from leucinic acid. leucinosis (lū-si-nō'sis), n. [NL., ⟨ leucin + -ic.] Derived from leucinic acid. leucinosis (lū-si-nō'sis), n. [NL., ⟨ leucin + -ic.] Derived from leucinic acid. leucinic acid. leucinic acid. leucinic (lū-sin'ik), a. [leucinic (lū-sin'ik), a. [leucinic (lū-sin'ik), a. leucinic (lū-sin'ik), Lettonian (le-tō'ni-an), a. and n. Same as

Lettonian (le-to'ni-an), a. and n. Same as Lettish.

lettuce, n.—American lettuce. Same as wild lettuce (b).—Arrow-leaved lettuce, Lactuca sapitifolia, of eastern North America, the lanceolate-acuminate stem-leaves of which are seasile with a sagittate clasping base.—Canada or Canadian lettuce, as a wild lettuce (b).—Canker-lettuce, the round-leaved wintergreen, Pyrola rotundifolia.—Plorida lettuce, Lactuca Floridana, of the eastern and southern United States, with blue flowers and lyrate-pinnatifid leaves.—Hairy lettuce, Same as miner's teltuce.—Liverwort-lettuce.—Same as canker-kieltuce.—Liverwort-lettuce.—Same as canker-kieltuce.—Miner's lettuce, Claytonia perfoliata, an annual American plant, ranging from British Columbia to Mexico and now established at one locality in Ohio. It is remarkable for the pair of large, connate upper leaves forming a cup out of which the panicle rises. It is used by the Indians as a salad plant and has long been grown in England for this use.—Red wood lettuce, Lactuca hirsuta of the eastern and southern United States, having reddish-yellow flowers, more or less hairy stems, and sinuste pinnatifid leaves. The involucre is often red or purple.—Spanish lettuce.—Lactuca Luce.—Tail lettuce.—Same as wild lettuce (b).—Tail blue lettuce, Lactuca Luca Luca Cudoriciana, of the prairies and plains of the western United States. It is a blennial plant with spinulose-denticulate leaves and showy yellow heads, the rays reflexed. and showy yellow heads, the rays reflexed.



lettuce-shark (let'is-shark), n. See sharkmoth.

lettuce-water (let'is-wâ'ter), n. A decoction

of crushed lettuce-leaves.
leubra, n. Same as *lubra.
Leucæthiop, n. See *Leucethiop.

leucæthiopia, n. See *leucethiopia.
leucæthiopia, a. See *leucethiopia.
leucaniid (lū-kā'ni-id), n. and a. I. n. A
member of the lepidopterous family Leucan-

Having the characters of or belong-

11. a. Having the characters of or belonging to the family Leucanidæ.

Leucascidæ (lū-kas'i-dē), n. pl. [NL., < Leucascus + -idæ.] A family of heterocœlous calcareous sponges having the flagellated chambers branched and opening into the exhalant canals which converge toward the oscula, the outer ends being covered over by a darmal poriferous membrane, and the skelea dermal poriferous membrane, and the skele-

a dermal portlerous membrane, and the skeleton being composed of irregular radiate spicules. It includes the genus Leucascus.

Leucascus (lū-kas'kus), n. [NL. (Dendy, 1892),
⟨Gr. λευκός, white, + ἀσκός, a bag.] The typical genus of the family Leucascidæ.

leucaurin (lū-kâ'rin), n. A colorless com-

pound, CH(C₈H₄OH)₃, prepared by the reduction of aurin by means of zinc dust and sodium hydroxid. It crystallizes in prisms and is readily reconverted into aurin. Also called triphenylolmethane.

leucein (lū'sē-in), n. [Gr. λευκός, white, + -e-in.] One of a group of substances related to the leucins, but differing from them in having two atoms of hydrogen less: they are possibly mide accrulic solids. amido-acrylic acids

amido-aerylic acids.

The Leucethiop (lū-sē'thi-op), n. [L. Leucæthiopes, otherwise Leucoæthiopes, and Leucæ Æthiopes, white Ethiops,' < Gr. λευκός, white, + Αίθιοπες, Ethiopians: see Ethiop.] 1. One of a people located by Pliny south of the Mauritanian Getulians: identified by some authors as the nanistic people of the northern Sahara. 2. [l. c.] An albino negro; also, more generally, an albino.

leucethiopia (lū-sē-thi-ō'pi-ä), n. [NL. leucethiopia, < leucothiop, n., 2.] Albinism occurring in negroes.

leucethiopic (lū-sē-thi-ō'pik), a. [leucæthiop + -ic.] Characterized, as a negro, by leuce-thiopia or albinism.

leucic (lū'sik), a. [Gr. λευκός, white, + -ic.]
Pertaining to leucin or leucic acid.—Leucic
acid, a colorless compound, CH₃(CH₂)₃CH(OH)COOH,

leucinosis (lū-si-nō'sis), n. [NL., \(leucin + \)
-osis.] Acute yellow atrophy of the liver, in which there is an excessive production of leucin.

leucite, n. 1. This mineral has been shown by C. Klein (1903) to be an essential constituent of the meteoric stone which fell at Schafstädt, in Saxony, in June, 1861. It is associated with anorthite and augite in a brown, glassy ground-mass, and this type has been named leucituranolite. Leucite probably also occurs in the Pavlovka meteoric stone (1882).

2. A small yellowish body found in the cotyle-

dons of a germinating plant that has not been exposed to sunlight.

leucitis (lū-sī'tis), n. [NL., ζ Gr. λευκός, white, + -itis.] Same as sclerotitis.

leucitophyric (lū'si-tō-fir'ik), a. [leucite + (por)phyr(itic) + -ic.] Noting a porphyritic rock whose phenocrysts are leucite. Dana,

Manual of Geol. (4th ed.), p. 77.

leucituranolite ($l\bar{u}''$ sit- \bar{u} -ran' \bar{o} - $l\bar{i}t$), n. [Gr. $\lambda c \nu \kappa \dot{o}_{\gamma}$, white, + - $\iota \tau \gamma g$, E. - $\iota i e^2$, + oi pavo, heaven, + $\lambda i \partial o_{\gamma}$, stone.] A rock type represented in the meteoric stone of Schafstädt,

sented in the meteoric stone of Schafstädt, Saxony (1861). See *leucite, 1, and *meteorite. Leuckartia (lū-kär'ti-ž), n. [NL., named after Prof. Leuckart of Leipzig.] The typical genus of the family Leuckartidæ. Moniez, 1878.

Leuckartidæ (lū-kär-ti'i-dē), n. pl. [NL., < Leuckartid + -idæ.] A family of dibothridiate cestoid worms, of the order Pscudophyllidea. lacking evident bothria. It includes the genera Leuckartia and Rhunchardella praceitic in fishes Leuckartia and Blanchardella, parasitic in fishes.
leuco-agglutinin (lū'kō-a-glö'ti-nin), n. An
agglutinin directed against the leucocytes.

agglutinin directed against the leucocytes.

leucobase (lū'kṣ-bās), n. A colorless base which gives a dye on oxidation and which is formed by the reduction of the dye.

leucoblastic (lū-kṣ-blas'tik), a. Relating to a leucoblast. Buck, Med. Handbock, II. 23.

leuco-body (lū'kṣ-bod*i), n. Same as *leuco-

leucochalcite (lū-kō-kal'sīt), n. [Gr. λευκός, white, + χαλκός, copper, + -ite².] A basic copper arseniate which occurs in white silky

acicular crystals.
leucochroi (lū-kok'rō-ī), n. pl. [NL. pl., < Gr. λευκόχροος, of white complexion, < λευκός, white. $+ \chi \rho \delta a$, color, complexion.] In anthrop., persons of a white skin.

80ns 01 & White Sain.

In this essay ['Geographical Distribution of Mankind ']
Mr. Dallas proposes Leucochroi, Mesochroi and Æthechroi as substitutes for White, Yellow and Black respectively.

Keane, Ethnology, p. 234, note.

leucochroic (lū-kō-krō'ik), a. [As leucochroi + -ic.] 1. In anthrop., having a light-colored skin: contrasted with *mesochroic and æthochroic ('black-colored').—2. Abnormally light in color; albinotic: contrasted with melano-

leucocidic (lū-kō-sid'ik), a. [leuco(cyte) + L. -cida, ⟨ cædere, kill, + -ic.] Causing the destruction of leucocytes.

leucocidin (lū-kō-sid'in), n. [leucocid-ic + in2.] A bacterial cytotoxin which causes the destruction of leucocytes.

leuco-compound (lu-ko-kom'pound), n. colorless organic compound formed by the re-duction of a dye and giving the dye again by oxidation.

leucocratic (lū-kō-krat'ik), a. [Gr. λευκός, white, + κρατεῖν, dominate, + -ic.] In petrog.. aterm proposed by Brögger (1896) to designate area in proposed by a preponder-igneous rocks characterized by a preponder-ance of light-colored minerals, or rather of minerals that are normally light-colored (chiefly feldspar and feldspathic minerals, and quartz), as contrasted with those (mclano-cratic) in which there is a preponderance of dark-colored minerals.

leucocyclite (lū-kō-sik'līt), n. [Gr. λευκός, white, + κύκλος, circle, + -ite².] A variety of apophyllite. See *chromocyclite.

leucocytal (lū'kō-sī-tal), a. [leucocyte + -all.] Same as leucocytic.

leucocythemic, leucocythæmic (lu'kō-sī-thē'mik), a. Same as leucemic.

Leucocytic crystals. See *crystal.

leucocytiform (lū-kō-sit'i-fôrm), a. [leucocyte + L. forma, form.] In histol., shaped like a leucocyte, as the cells found in the reticular tissue of the phagocytic organs of the Gryllidæ and certain Locustidæ.

leucocytolysis (lū'kō-si-tol'i-sis), n. cocyte + Gr. Avac, dissolution.] The destruction of leucocytes by specific leucocytotoxins. leucocytolytic (lū-kō-sī-tō-lit'ik), a. [leucocytion of leucocytes by specific reaction of leucocytes by specific reaction of leucocytes by specific reaction of leucocytes (-lut-) + -ic.] Having reference to the action of leucocytotoxins.

leucocytepenia (lū'kō-sī-tō-pē'ni-š), n. [NL., cleucocyte + Gr. πενία, poverty.] Same as + leucopenia.

leucocytepenia.

leucocytepenia.

leucocytepenia.

leucopenia (lū-kō-pē'ni-š), n. [leuco(cyte) + Gr. πενία, poverty.] A diminution in the number of white corpuscles in the blood.

Also called hypoleucocytoxis.

less blood-corpuscles.

leucocytosis, n. 2. The number, actual or relative, of white corpuscles in a given specimen of blood, an excess being designated hyperleucocytosis, and a number below the normal hypoleucocytosis or leucopenia.

The highest leucocyte count observed in this case was 22,000, and occurred on January 10; the average had been 17,000, and at present the leucocytosis was 16,600.

Med. Record, Jan. 24, 1903, p. 159.

ned. Record, Jan. 24, 1903, p. 159. -ite².] Same as leucophane.

leucocytotic (lū'kō-sī-tot'ik), a. [leucocytosis | leucophlegmasia (lū'kō-fleg-mā'si-š), n. [NL. or the production of leucocytosis, or the production of leucocytosis | leucophlegmatia: see leucophlegmacy.]

leucocytoria (lū'kō-sī-tō'-i'')

leucocyturia (lū"kō-sī-tū'ri-ā), n. [NL., < leucocyte + Gr. οὐρον, urine.] The presence of leucocytes in the urine.

leucoderivative (lū'kō-dē-riv'a-tiv), n. Same as *leuco-compound.

leucodermatous (lū-kō-der'ma-tus), a. λευκός, white, + δέρμα(τ-), skin, + -Marked by deficient pigment in the skin.

leucodrin (lū'kō-drin), n. [Leucod(endron) + -in².] A colorless, very bitter, levorotatory compound, C₁₈H₂₀O₉, contained in the leaves of Protea concinna (Leucodendron concinnum of Robert Brown). It crystallizes in prisms and melts at 212° C.

and melts at 212° C.

leucoencephalitis (lū"kō-en-sef-a-lī'tis), n.

[NL. ζ Gr. λευκός, white, + ἐγκέφαλος, brain,
+ -itis.] Same as *forage-poisoning.

leucogallol (lū-kō-gal'ol), n. [Gr. λευκός, white,
+ E. gallol.] A colorless compound, C₁₈H₈O₁₂Cl₁₂2H₅O, prepared by the action of chlorin
on pyrogallol. It crystallizes in small needles
which melt at 104° C.

leucolinic (lū-kō-lin'ik), a. [leucoline + -ic.] Pertaining to leucoline or leucol.—Leucolinic acid, a colorless compound, CoHe,NO2, prepared by the oxidation of quinoline from coal-tar (leucoline). It crystallizes in needles which melt at 162°C.

leucolysin (lū-kol'i-sin), n. [leucolys-is+-in2.] A substance that produces leucolysis.

leucolysis (lū-kol'i-sis), n. [leuco(cyte) + Gr. \(\lambda \) toda, dissolution.] The destruction of leucocytes by means of specific leucotoxins or leucolysins.—Venom leucolysis, the destruction of leucocytes by means of snake-poison.

leucolytic (lū-kō-lit'ik), a. [leucolysis (-lyt-) + -ic.] Causing the destruction of leucocytes. leucomaine, n.—Toxic leucomaine, a leucomaine having toxic properties.

leucomelanic (lū-kō-me-lan'ik), a. Same as

leucomyelitis (lū"kō-mī-e-lī'tis), n. [NL. Gr. λευκός, white, + μυελός, marrow, + -itis.] Inflammation of the spinal cord confined wholly or chiefly to the white matter.

Leucon (lū'kon), n. [NL. (Kröyer, 1846), < 1862.
Gr. λευκός, white.] 1. The typical genus of the family Leuconidæ.—2. [l. c.] Any sponge belonging to the group Leuconaria.

1862.

Leucosoleniidæ. (lū-kō-sō-lē-nī'i-dē), n.

leuconecrosis (lū'kō-ne-krō'sis), n. [NL., ζ Gr. κευκός, white, + NL. necrosis.] A form of dry gangrene in which the dead tissue is A form of white instead of black.

white instead of black.

leuconic (lū-kon'ik), a. [Gr. $\lambda \epsilon \nu \kappa \dot{\alpha} c$, white, + -n- + -ic.] Noting an acid, a colorless sweet compound, $C_5H_8O_9$, prepared by the action of chlorin or nitric acid on an alkali croconate. It crystallizes, with $1H_2O$, in small needles which become anhydrous at 100° C.

Leuconidæ (lū-kon'i-dē), n. pl. [NL., < Leucon + -idæ.] A family of cumacean crustaceans which have an elongated body and no telson. It contains the genera Leucon, Eudorclla, and Eudorellopsis.

Pertaining to or resembling a leucon: as, the leuconoid type of canal system in sponges. Contrasted with *syconoid.

Lonconostoc (lū-kō-nos'tok), n. [NL. (Van Tieghem, 1878), ⟨ Gr. λενκός, white, + E. nostoc.] A genus of bacteria. The cells are spherical and united in chains which are inclosed in a slimy envelop. L. mesenterioides occurs in beet-juice and syrups, forming gelatinous masses.
land.
leucosphere (lū'kō-sfēr), n. [Gr. λενκός, white, + σφαϊρα, sphere.] A name coined by Lockyer for the inner portion of the sun's corona: so called because of its whiteness, in contrast with the scarlet chromosphere.

[.eu- leuconuclein (lū-kō-nū'klē-in), n. [Gr. λευκός, leucospheric (lū-kō-sfer'ik), n. struc- white, + NL. nucleus + .u².] A decomposi- + -ic.] Of or pertaining to the oxins. tion-product of nucleohiston. leucotephrite (lū-kō-tef'rīt), n

leucopenic (lū-kō-pen'ik), a. [leucopenia + -ic.] Relating to or characterized by leucope-

leucophanite (lū-kof'a-nīt), n. [leucophane +

prop. leucophlegmatia: see leucophlegmacy.]

Same as leucophlegmacy.

leucophæmicite (lū-kō-fen'i-sīt), n. [Gr. λευκός, white, + φοινιξ (φοινικ-), purple, + -ite²] A basic orthosilicate of manganese chiefly, also zinc and calcium, related to humite in formula. It occurs in crystalline masses of a raspberry-red color at Franklin Furnace, New Jersey,

leucophyllous (lū-kō-fil'us), α. [Gr. λευκόφυλλος, white-leaved (< λευκός, white, + φύλλοι + -ous.] In bot., having white leaves. + φύλλον, leaf).

leucophyre (lū'kō-fir), n. [Gr. λευκός, white, + (por)phyr(y).] In petrog., a name given by Gümbel (1874) to certain light-colored altered diabases, with saussuritized feldspars, pale-green augite, and much chlorite. The name having fallen into disuse it has been proposed in the quantitative system of classification of igneous rocks (1902) to apply it, in the classification for field use, to any light-colored porphyry, in distinction to a dark-colored porphyry (melaphyre).

leucorrhagia (lū-kō-rā'ji-ā), n. [NL., < Gr. λευκός, white, + -ραγια, < ὁηγνύναι, break.] Profuse leucorrhea.

eucory (10° kō-riks), n. [NL., \langle Gr. $\lambda \varepsilon \nu \kappa \delta c$, white, + $\delta \rho \nu \xi$, an antelope.] The specific name of the saber-horned antelope, Oryx leuleucoryx (lū'kō-riks), n. coryx, adopted as a common name.

Leucosoleniidæ. Bowerbank,

pl. [NL., < Leucosolenia + -idæ.] A fam-ily of homocœlous, calcareous sponges having an erect form, with monaxon spic-



Creeping colony of Lewosolenia variabilis. H., with nunerous erect, and for the most part simple, oscular tubes, arising from a basal creeping stolon. About four times natural size. (From Lankester's "Zoology.")

ules always present, the triradiate, if present, alate, the collar-cells with an apical nucleus, and the larva an amphiblastula. It contains the genera Leucosolenia and Ascyssa.

leucosphenite ($l\bar{u}$ - $k\bar{o}$ -sfen' $i\bar{t}$), n. [Gr. $\lambda e \nu \kappa \delta c$, which are measured in linear units; or thermometric which, $+ \sigma \phi \dot{n} \nu$, wedge, $+ -i t e^2$.] A titanosilicate of barium and sodium, which occurs in wedge-shaped monoclinic crystals, white to grayish blue in color, with vitreous to levelage (lev'el- \bar{a}), n. [level $+ -a \mu c$.] In pearly luster: obtained from southern Green land.

leucotrichia (lū-kō-trik'i-ä), n. [NL., \langle Gr. $\lambda \varepsilon \nu \kappa \delta \varsigma$, white. + $\theta \rho i \xi$ $(\tau \rho i \chi -)$, hair.] Marked diminution or absence of pigment in the hair. nia or paucity of the white corpuscles of the leucoturic (lū-kō-tū'rik), a. [Gr. λευκός, white, encourse (u-kg-tu rik), a. [Gr. λ evec, white, + (i) L. tus (tur-), incense, + -tc.] Noting an acid, a colorless crystalline compound, $C_6H_6O_6N_4$, prepared by the reduction of parabanic acid in acid solution.

leukemia, leukemia (lū-kē'mi-ä), n. Same as leucemia.

leukopenia, n. Same as *leucopenia.

Leuresthes (lū-res'thēz), π. [NL., said to allude to the toothless jaws, irreg. < Gr. λευρός, smooth, + ἐσθίειν, eat.] A genus of atherinoid fishes found on the coast of California.

Leuroglossus (lū-rō-glos'us), n. [NL., < Gr. λευρός, smooth, + γλωσσα, tongue.] A genus



Leuroglossus stilbius. (From Bulletin 47, U. S. Nat. Museum.)

of fishes of the family Argentinidæ, found in rather deep water off the coast of California.

leva (la'va), n. [Bulg.] A current silver coin of Bulgaria, of the value of 20 cents. One hundred stotinki equal one leva.

levancy (lev'an-si), n. [See levant1.] The actor state of rising up. See levant and conchant, under couchant.

It may be measured, like a manorial right, by levancy and couchancy, or it may be limited to a fixed number of animals.

Encyc. Brit., XXVII. 168.

leucosin (lū'kō-sin), n.

-ose + -in².] An albuminous substance
in various cereals.

leucosism (lö'kō-sizm), n. [Gr. λείκωσις, a
whitening, a white spot, ⟨ λευκοῦν, whiten, ⟨
λευκός, white.] The presence of white coloring in parts of the bodies of animals in which
the normal coloring is not white; partial albinism.

Leucosolenia (lū'kō-sō-lē'ni-š), n. [NL.,

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fields, or compartments, of land that is to be irrigated. The levees are usually from three to five feet wide at the bottom, and a foot or more in height, being broad and low, so that wheeled agricultural implements can pass over them without injury.

levee-check(le-ve'chek),n. Same as *check1, 20. level¹, n. 1. (b) The correction for level of an astronomical instrument; the deviation of its axis from exact horizontality. Science, Jan. 4, 1901, p. 13.—4. (b) In landscape-gardening, one of the horizontal surfaces in which an irregular piece of lend may be expressed. irregular piece of land may be arranged. By the use of different levels the designer may place various features of his design above or place various features of his design above or below the eye.—Level of no strain, a neutral surface, within the crust of the earth, in which the strains due to temperature and the action of gravity neutralize each other.—Plezometric level, the relative level or altitude of two layers of air measured in standard barometric pressures, as distinguished from orometric levels, which are measured in linear units; or thermometric levels, which are measured in temperature units; or pyenometric levels, which are measured in density units.

mining, leveling.

level-constant (lev'el-kon'stant), n. The deviation from exact horizontality of the axis of an astronomical instrument. It should be an astronomical instrument. sensibly constant if the instrument is well made and firmly mounted. Science, Jan. 4, 1901, p. 13.

level-course (lev'el-kors), a. In mining, in which the necessary force is obtained by the the direction of the strike; at right angles to use of levers. the line of dip or rise.

leveler, n. 3. [cap.] (b) One of a secret society of rebels in Ireland in the latter half of the eighteenth century: named from their principles and the leveling of park palings principles and the leveling of park palings and walls, practised by them.—6. In currying, a composition used to eradicate the grease before leather is dyed. Mod. Amer. Tanning, p. 151.—7. In golf, a hole of such length that no player can reach the green in one stroke and any player can reach it in two strokes.— 8. A person who uses an engineer's level; a member of an engineering or surveying party.

level-error (lev'el-er"or), n. In work with astronomical and geodetic instruments, the small error in a quantitative observation made with a transit instrument due to the fact that the horizontal axis is not truly level.

level-free (lev'el-fre), a. In mining, drained water-level.

leveling, n.—Geodetic leveling, the method of de-termining the difference of level or elevation between two distant points on the earth's surface, by observing at one point the angle of elevation or depression of the other and calculating therefrom the vertical lineal distance of one point above the other after correcting for refraction and for curvature of the earth.

leveling-machine (lev'el-ing-ma-shēn"), n. shoe-manuf., a machine for pressing down the sole of a shoe while on the last, to give the solie of a succession of the shoe its correct form. Some machines employ a roll that passes over the sole of the shoe under heavy pressure. In others, direct pressure is used. Also called pressure. In others, beating-out machine

leveling-stand (lev'el-ing-stand), n. An instrument for supporting glass plates or vessels in a horizontal position.

level-line (lev'el-lin), n. In naval arch.. the curved line cut by a horizontal plane on the surface of the hull. A series of such lines out by equidistant horizontal water-planes is

levelman (lev'el-man), n. Same as *leveler, 8. level-point (lev'el-point), n. 1. Any fixed point, on any permanent material or structure, whose elevation above a given datum, as the sea-level, is determined and referred to in comparisons of elevations.—2. One of two or more points having the same elevation above sea-level.

level-stone (lev'el-ston), n. In mining, one of the stones on the surface marking the direction of levels underground.

tion of levels underground.

lever¹, n.—Change-speed lever. See *change-speed.—Compensating-lever, a beam or lever with equal or unequal arms, used to obtain a mean effect of two equal or unequal efforts. In the locomotive the weight of the frame is applied at the fulcrum of such a lever, and the ends of the lever are attached to the springs which transmit the load on each to the axlebearing. Any unequal reaction of the track is followed by a descent of one or the other end of the lever, and hence the load on each spring is always the same, no matter how the track-surface varies. This compensating-lever is usually called the equalizing-lever, and it not only mitigates shocks by dividing them between the two springs but also delivers to each wheel its share of the weight for adhesion, and slipping is lessened. The whiffletree of a two-horse wagon is a compensating-lever. The arms may be unequal, if the loads are unequal.—Dead lever see live lever, under live?—Equalixing-lever. See compensating-**keere.—Locking-lever, a lever connected with the faller of a spinning-mule, which locks the faller in position at the beginning of the winding of the yarn on the cop or bobbin.—Mendoza lever, a hinged lever no a cotton-spinning mule connected with the backing-off motion of the spindle-carriage.—Optical lever, a device for the measurement of angles by means of a beam of light reflected from a mirror, the amount of deflection being shown on a scale over which the light travels. Such a lever is used in the tangent galvanometer.

tangent galvanometer.

lever-fly (lev'er-fli), n. A machine for punching or shearing metal plates, in which a constantly running fly-wheel is temporarily lewisite (lū'is-īt), n. [Named for Professor lib.

W. J. Lewis of Cambridge.] A titano-antilibration libration.

Rep. Brit. Ass'n Advancement of Sci., 1901, p. 617.

Clay

Clay

W. J. Lewis of Cambridge.] A titano-antilibration. lever; a power-punch.

lever-motion (lev'er-mo"shon). n. A motion transmitted by one or more levers; a motion taken from a moving lever.

leverrierite (le-ver'i-er-īt), n. [Named for Le Verrier, a French mining engineer.] A lewisson (lū'i-son), n. Same as lewis, 1. hydrated silicate of aluminium, allied to kao-lex, n. 2. In numis, the money standard fixed linite: it occurs at several localities in France. lever-scales (lev'er-skālz), n. pl. Same as

lever-shears (lev'er-sherz), n. sing. and pl. Hand- or power-shears, for cutting metal, in

leviathanic (le-vi-a-than'ik), a. Like a levia-

than; vast or monstrous.

levir (lē'vèr), n. [L. levir, brother-in-law.] A brother-in-law; a male relative of a man who, after the latter's death, has the right, and the duty, to marry his widow.

levirate, n. II. a. Of or pertaining to the levirate: as, levirate marriage; levirate law.

Levit. An abbreviation of Leviticus.

levitant (lev'i-tant), n. [levit-ate + -ant.] One who exhibits or professes to exhibit the spiritualistic phenomena of levitation.

levitative (lev'i-tā-tiv), a. [levitate + -ive.]
Having the power of using or causing other things to rise in the air; having the alleged power of levitation.

eviticism (le-vit'i-sizm), n. [Levitic + -ism.] Same as Levitism.

levocamphene, lævocamphene (lē'vō-kam-fēn'). n. See *camphene, l. levo-compound, lævo-compound (lē'vō-kom'-pound), n. In chem., that isomeric form of a substance which produces left-handed rotation of the plane of polarization of light.

levogyral, lævogyral (lē-vō-jī'ral), a. Same

as levogyrate.

levolactic, levolactic (le-vo-lak'tik), a. [L. lævus, left, + E. lactic.] Noting an acid, the variety of lactic acid which rotates the plane of a ray of polarized light to the left.

levoracemate, lævoracemate (le vo-ras e-māt), n. [L. lævus, left, + E. racema + -atel.] A salt of levotartaric acid.

levorotation, lævorotation (lē "vō-rō-tā'-shon), n. [L. lævus, left, + E. rotation.]
The rotation of the plane of polarization of light toward the left.

A minute difference in the lavorotation of two fractions seems insufficient evidence for the assumption that aromadendral exists in the oil of E. corymbosa.

Nature, April 2, 1908, p. 525.

ent by equidistant horizontal weter-planes is used to define the form of the vessel in the half breadth plan of the sheer-draft. Also called water-line.

levosin, levosin, levoler, 8. level-point (lev'el-man), n. Same as *leveler, 8. phous compound, (C₈H₁₀O₅.H₂O)₄, obtained the sheer-draft, and melts at about 160° C.

Rature, April 2, 1903, p. 525.

Raculty of Physicians and surgeons.

L. G. An abbreviation (a) of Life Guards; (b) of Low German (often LG.).

L. Gr. An abbreviation of Late Greek (often from grain. It becomes anhydrous at 110° C., and melts at about 160° C.

L. H. A. An abbreviation of Lord High Admiral.

a. [L. lævus, left, + E. tartaric.] Noting an acid, a form of tartaric acid which turns the plane of polarized light to the left.

levotartrate, lævotartrate (lē-vō-tär'trāt), n. [lævotart(a)r(ic) + -ate¹.] A salt of levotartaric acid.

levulan, lævulan (lev'ū-lan), n. [levul(ose) A colorless, amorphous, levorotatory -an.carbohydrate, $C_6H_{10}O_5$, found in beet-sugar L. H. T. An abbreviation of Lord High Treasmolasses. It is quantitatively converted into urer. levulose by boiling with dilute acids, and L. I. An abbreviation (a) of Light Infantry; melts at about 250° C. (b) of Licentiate of Instruction; (c) of Long

levulosan, levulosan (lev- \bar{u} -lo'san), n. [levulose + - an.] A colorless syrup, $C_6H_{10}O_5$, liana, n. In the grope prepared by rapidly heating cane-sugar at 160° C. It is optically inactive, and is converted into levulose by boiling with water.

levulosuria, lævulosuria (lev'ū-lo-sū'ri-ā), n. [levulose + Gr. oipor, urine.] Presence of levulose in the urine when voided.

levynite (lev'i-nīt), n. [levyne + -ite2.] Same liangle, n. Same as *lecangle. as lerune.

Lewisian (lū-is'i-an), a. Noting the oldest rocks in Great Britain: so named by Murchison from the island of Lewis where they are exposed. They consist chiefly of gneisses similar to the Laurentian types of North America. See Lewisian *group.

These lines of movement traverse the Lewisian plateau in various directions, producing planes of disruption, molecular rearrangement of the minerals and the development of foliation.

monate of calcium occurring in minute yellow to brown octahedrons: found in the gravels of Tripuhy, Minas Geraes, Brazil.

Lewis's counter-gambit. See *counter-gam-

lewisson (lū'i-son), n. Same as lewis, 1.

by imperial of W. C. Hazlitt. imperial or other constituted authority.

Lexell's circle. See *circle.

lexiarchus (lek-si-är'kus), n.; pl. lexiarchi (-ki). [Gr. ληξίαρχος, ζ λήξις, assignment by

lot, $+ \dot{a}\rho\chi\epsilon\nu$, rule.] One of a board of six officers at Athens who attended to the registration of citizens, assigned the young men to their place on the list of the deme, and were stationed at the entrance to the Pnyx, not citizens. They were assisted by thirty armed officers. Jour. Hellenic Studies, VIII.

lexic (lek'sik), a. [Gr. λεξικός, of or for words, λέξες, a saying, speech, phrase, word, a particular word, < λέγειν, say, speak: see lexicon, etc.] Of or pertaining to words, as to the vo- cabulary of a language; consisting of words; lexical.

Primitive languages are essentially structural or morphologic, only incidentally lexic. . . With the attainment of writing, the function of linguistic association largely disappears, and speech becomes essentially lexic, only incidentally morphologic.

Rep. Bur. Amer. Ethnol., 1897-98, p. 832.

lexicalic (lek-si-kal'ik), a. Same as lexical. G. P. Marsh, Lect. Eng. Lang., p. 141.

lexicog. An abbreviation (a) of lexicographer;

(b) of lexicography.

lexicografer, lexicografy. Amended spellings of lexicographer, lexicography.

lexigraphically (lek-si-graf'i-kal-i), adv. In such a manner that each character represents a word.

ley², n. Ley in this spelling (see lea1) is used specifi-cally of a plantation of grasses or other plants grown for their herbage (clovers, etc.), to serve either as meadow or as pasture. Leys are planned for one or a few years or for permanency, their composition being governed ac-cordingly. [Great Britain.]

cordingly. [Great Britain.]

The extended duration of the ley justifies the addition of timothy and an increase of coxisfoot.

M. H. Sutton, Permanent and Temporary Pastures, [p. 125.

Leyden's crystals. Same as Charcot's crys-

tals (which see, under crystal).

L. F. P. S. An abbreviation of Licentiate of the

L. H. C. An abbreviation of Lord High Chan-

lhiamba (lē-ām'bā), n. [Native African name.]

Indian hemp, Cannabis Indica. See bhang, *dagga, Cannabis and hashish.

The imported gin keeps the African . . . from his worse intoxicant, *lhiamba* (Cannabis Indica).

Mary Kingsley, West African Studies, p. 667

itana, n. In phytogeog., a liana is a plant which roots in the ground and, by means of long stems with long internodes and the assistance of various devices, climbs over other plants and, more rarely, over rocks. The name was formerly given only to woody plants; but its use has been broadened to include herbaceous annuals and perennials, thus becoming synonymous with cirmber. See *leaf-climber, *root-climber, *kscrambler, 2, twiner (0), and phrases under *ktendril-climber.

Liassian (lī-as'i-an), n. [F. liassien: as Lias +-ian.] In geol., a term applied by d'Or-bigny and other French geologists to the mid-dle division of the Lias in France.

Liassic, a.—Upper Liassic clay, the upper member of the Lias, which is itself the lowest division of the Jurassic

Jurassic.

With the aid of other shallow wells in the Lincolnshire Limestone, this rock is shown to have a decided dip to the west down the face of the escarpment, as though it had settled down upon the eroded surface of the *l'pper Liassic Clay*.

Nature, Nov. 27, 1902, p. 95.

lib. An abbreviation (b) of librarian; (c) of library; (d) of the Latin libra, pound.

libaniferous (lib-a-nif'e-rus), a. [LL. libanus, frankincense, + -fer, \(\chi \) ferre, bear, + -ous.] Same as libanotophorous.

libanophorous (lib-a-nof'ō-rus), a. [Gr. λίβα-νος, frankincense, + -φορος, (φέρειν, bear, + νος, frankincense, + -φορος, < φέ -ous.] Same as libanotophorous.

libate, v. i. 2. To take a drink. [Slang.] Gents, this is shorely the sociablest crowd I've crossed up with as yet. Let's libate! A. H. Lewis, Sunset Trail, xi. libational (lī-bā'shon-al), a. [libation + -all.]
Pertaining to libations; of the nature of a

nected with the tree-and-pillar cult of Mycenæan civilization. It has four legs surrounding a sacred pillar or bætylus.

libel, n. 7. In law, a petition for a decree in divorce.—Mutation of libel, in admiralty and eccles. law, an amendment allowed which changes the substance of a libel, so that a new cause of action is introduced, or another emedy demanded.

libelee, libellee (lī-be-lē'), n. In law, the defendant in actions or suits in which the complaint or (From "Journal of Hel-first pleading is libel. (From "Journal of Hel-lenic Studies," by permis-see libel, 2.



libella, n. 5. A Roman brass coin, the as of diminished weight.

Libellatic (li-be-lat'ik), n. [L. libellatici, pl., \(\) L. libellus, a paper, a certificate: see libel.]

One of the class of Christian apostates who, during the Decian and Valerian persecutions, secured from the magistrates by bribery a false certificate (libellus) testifying that they had satisfied the requirement of sacrificing to the heathen gods.

liberal. I. a.—Liberal-Republican party. See
Republican.—Liberal science. See science.
II. n. 3. One who holds liberal views in
theology. [U. S.]

In Boston a minister is called a liberal when he rejects the Andover creed, and, perhaps, the Apostles' creed.

The Beacon (Boston), Jan. 8, 1887. N. E. D.

liberal-legal (lib' e-ral-legal), a. Noting a stage of civilization marked by freedom of stage of civilization marked by freedom of thought and criticism, liberty of personal action, freedom of contract, and the establishment of constitutional law and government. Compare *religious-military. Giddings, Prin. of Sociol., p. 309.

Prin. of Sociol., p. 309.

Prin. of Sociol., p. 309.

Prin. of Sociol., p. 309.

Prin. of Sociol., p. 309.

Prin. of Sociol., p. 309.

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Prin. of Sociol., p. 309.

Prin. of Sociol., p. 309.

Prin. of Sociol., p. 309.

Prin. of Sociol., p. 309.

liberative (lib'e-rā-tiv), a. [liberate + -ive.]

Same as liberatory.

liberticidal (lib'er-ti-sī'dal), a. [liberticide + That destroys liberty

liberticide¹, n. II. a. That destroys liberty; liberticidal.

libertin. n. and a. A simplified spelling of

libertine, n. 8. At Aberdeen University, a free scholar; one who has no bursary. See bursary, 2. N. E. D.

liberty, n.—Laws of liberty. See $\pm law^1$.

liberty-day (lib'er-ti-dā), n. Naut., a day on which liberty is granted.

liberty-liquor (lib'er-ti-lik'er), n. Formerly, a certain limited amount of liquor (rum) which a member of the crew of an English man-of-war was permitted to purchase from the purser for the purpose of entertaining a

liberty-party (lib'er-ti-par'ti), n. Members of a ship's company to whom leave to go ashore

of a ship's company to whom leave to go ashere has been granted.

liberty-ticket (lib'er-ti-tik'et), n. A written or printed paper given to a man-of-war's-man, L on which is specified the date and period of his liberty. The possession of it insures him against arrest as a deserter.

liberty-tree (lib'er-ti-tre), n. See Tree of

Liberty, under tree.
Libonia (li-bō'ni-ä), n. [NL. (C. Koch, 1863), named in honor of Libon, a traveler in Brazil.] An untenable generic name still frequently used by florists for certain species of Jacobinia, a genus of plants of the family Acanmma, a genus of plants of the family Acan-thaceæ. They are half-shrubby greenhouse subjects bearing a profusion of slender, tubular, irregular red or orange flowers. The commonest species is Jacobinia paucifora, often known by florists as Libonia forbunda, a native of Brazil. It is a very floriferous plant, with small, and entire, elliptic-oblong leaves and drooping, or declined, scarlet, yellow-tipped flowers an inch long. The plant known to florists as Libonia Penrhosiensis is a hybrid between Jacobinia paucifora and J. Ghiesbrephtiana, with still more showy flowers.

libra, n. 4. A money of account at Alicante in Spain; the peso, worth 10 reals.—5. A new gold coin of Peru, struck under a decree of January 10, 1898, and of the same standard and weight as the pound sterling.

library, n.—Traveling library, a selected set of books sent from a central source to a club or school in some place where there is no public library. The books are returned when read and another collection is sent to take its place.

libation-table (lī-bā'shon-tā"bl), n. A peculibrational (lī-brā'shon-al), a. [libration + liar form of altar connected with the tree-and-pillar cult of Mycenæan of the moon or of the planets Mercury and Venus.

libroplast (lī'brō-plast), n. [L. liber, free, + Gr. πλαστός, formed.] A stabiloplast which Gr. $\pi \lambda a \sigma \tau \delta \varsigma$, formed.] A stabiloplast which lies free from the chromatophore along the middle line of some diatom cells.

Libyo-Teutonic (lib"iō-tū-ton'ik), a. as related (in theory) to Teutonic peoples: applied to the blond type of man in Morocco and Algiers in its supposed physical relationship with the blond Teutonic type of northern Europe. Brinton, Races and Peoples,

licarene (lik'a-rēn), n. A colorless cyclic, optically active hydrocarbon, $C_{10}H_{16}$, prepared by the dehydration of licareol. It is a limonene. licareol (li-kar'i-ol), n. Same as *linalool.

Licea (lī'sē-ā), n. [NL. (Schrader, 1797),

L. licium, thrum, thread.] A genus of
slime-molds which have sessile sporangia
containing brownish or reddish spores and
no capillitium. Nine species have been de-

Liceaceæ (lī-sē-ā'sē-ē), n. pl. [NL., < Licea + -aceæ.] A family of slime-molds named from the genus Licea.

the genus Licea.

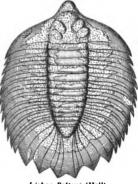
license, n. 1. (f) Naut., a certificate issued to a merchant-marine officer showing him to be qualified for the position named on the paper; also, a certificate issued to a vessel testifying that it has been inspected by government officials and pronounced seaworthy in hull, boilers, machinery, and equipment.—License system, a term used to denote the laws governing the conditions under which the sale of alcoholic or intoxicating beverages may, or may not, be carried on.—Steamship license, a document granted to a steam-vessel, specifying the waters on which she is permitted to sail, the pressure of steam allowed, etc.

lichadid (li'ka-did), n, and a. I. n. A mem-

Lichadidæ (lī-kad'i-dē), n. pl. [Lichas (Lichad-) + -idæ.] A family of trilobites typified by the genus Lichas.

lichadoid (li'ka-doid), a. Allied to or resembling the trilobite genus Lichas.

Lichas (lī'kas),
n. [NL., < Gr.
Λίχας, a personal
name.] A genus
of trilobites of
the family Lichadincluding idæ, some of the largest known of est known of
these organisms.
All are thin-shelled,
and so loosely articulated that entire
specimens are extremely rare. The
glabella dominates
the other lobes which
are reniform and
small. The genus
occurs in the Silurian reniform and small. The genus occurs in the Silurian and Devonian of Europe and North America.



Lichas Boltoni (Hall). One fourth natural size

in pathol., a form of lichen, occurring on the forearm and on parts of the body which are constricted by the clothing, in which the papules are flattened and smooth and are the seat of much itching.

lichen (li'ken), v. t. [lichen, n.] To lichenize. lichenal (li'ken-al), a. Of or pertaining to the Lichenales or lichens. Lindley.—Lichenal alliance, the name proposed by Lindley for the Lichenales or lichens.

Lichenales (li-ke-na'lez), n. pl. [NL., < lichen -ales.] Same as Lichenes.

Lichenalia (lī-ke-nā'li-ā), n. [NL., ζ Gr. λειχήν, bryozoans of the family Fistuliporidæ. They possess massive or ramose zoaria, the zoecia of which have ovoid or pyriform apertures, thin walls, and complete horizontal diaphragms. The genus extends from the Silurian to the Permian. Also Fistulipora.

lichenate (li'ken-āt), n. [lichen-ic + -atel.]
A salt of lichenic acid.
lichen-fungus (li'ken-fung'gus), n. Any fungus which enters into combination with an alga to form a lichen.

lichenification (lī-ken-i-fl-kā'shon), n. lichen, lichen, +-ficatio(n), <-ficare, make.] Conversion of a portion of the skin, usually about the flexures of the joints, into a condition resembling lichen planus.

In some cases the lesions had flattened and left a state of marked lichenification. Lancet, July 18, 1903, p. 165.

[libration + lichenivorous (lī-ke-niv'ō-rus), a. [L. lichen, ure of a libra-lichen, + vorare, eat, + -ous.] Feeding on the librations lichens, as reindeer.

lichenize (li'ken-iz), v. t.; pret. and pp. lichenized, ppr. lichenizing. [lichen + -ize.] To cover with lichens.

lichenologic (lī'ken-ō-loj'ik), a. lichenological. Same as

Hichenopora (li-ke-nop'ō-r\bar{a}), n. [NL. (Defrance), \ Gr. λειχήν, lichen, + πόρος, pore.]
The typical genus of the family Lichenoporidæ.
Lichenoporidæ (li'ke-nō-por'i-d\bar{a}), n. pl. [NL., \ Lichenopora + -id\bar{a}.] A family of cyclostomatous extensectous nolygens. The gentumina

Liceneopora + -idæ.] A family of cyclostomatous ectoproctous polyzoans. The zoarium is discoid, simple or composite, adnate or partially free and stipitate; the zoccia are tubular, erect or nearly so, arranged in more or less distinct series radiating from a free central area; and the intermediate surface is cancellate or porous. It contains the genera Lichenopora and Domopora.

lichi² (lē'chi), n. [Also leche; S. African.] Kobus lichi (leche), one of the larger antelopes of South Central Africa: related to the waterbuck, but with shorter, more recurved horns. See koh

Lichnophora (lik-nof'ō-rä), n. [NL., \langle Gr. $\lambda'(\chi\nu\sigma\varsigma)$, a glutton, + - $\phi\sigma\rho\sigma\varsigma$, \langle $\phi\epsilon\rho\epsilon\nu$, bear.] The typical and only genus of the family Lichnophoridæ. It occurs as an ectoparasite on various ma-rine animals, as arthropods, medusæ, snails, and worms.

Lichnophoridæ (lik-nō-for'i-dē), n. pl. [NL., < Lichnophoru + -idæ.] A family of peritrichous, ciliate infusorians. They have a secondary circlet of cilia around the opposite end in addition to the adoral zone, which is a left-wound spiral, and the hinder end of the body forms a sucker for attachment. The family contains the genus Lichnophora.

Lichnophorina (lik'nō-fō-rī'nä), n. pl. [NL., \(Lichnophora + -ina^2. \) Same as \(\pm Lichnophor-

lick, v. i. 2. To tear along; ride at full gallop. [Colloq.]
lick, n. 7. An aberration of the appetite, with a morbid desire to eat foreign substances having no food value, which attacks nearly all the domestic animals. In the ox it is called pica, in the sheep wool-eating, etc.

lickety-whittle (lik'e-ti-hwit'l), adv. Recklessly fast. Dialect Notes, II. vi. [Vulgar.] lick-fingers (lik'fing'gerz), n. 1. A greedy fellow; a glutton.—2. A cook: often used by the Elizabethan dramatists as the personal name of a cook.

licking, n. 3. The adhesion of textile fibers (cotton) to any surface in the process of manufacture

lick-ladle (lik'lā'dl), n. A parasite; a lick-

platter. Lic. Med. An abbreviation of Licentiate in Medicine.

licorice, n.—Wild Moorice. (c) In the West Indies and British Guiana, any one of several species of trees belonging to the genus Cassia, having fruits which contain a sweet pulp tasting somewhat like licorice; especially C. fistula and C. grandis.

licorice-juice (lik'ō-ris-jös), n. The extract of Species or Russian licorice-root Clucturalization

Spanish or Russian licorice-root, Glycyrrhiza glabra.

licorice-powder (lik'ō-ris-pou'der), n. Finely ground licorice-root: used as a mild laxative. licorice-sugar (lik'ō-ris-shug'är), n. Glycyrrhizine-ammonia, the sweet principle of licorice and monesia bark. Sci. Amer. Sup., Jan. 18, 1908, p. 43.

lid (lid), v. t.; pret. and pp. lidded, ppr. lidding.[lid, n.] To put a lid on (something); put a cover on; hide.

lie¹, v. i.—To lie to the dogs or to the gun, to permit the near approach of a dog or a sportsman before flying: said of game-birds.

lie¹, n. 4. In golf: (a) The angle which the shaft of a club makes with the head. A club has a flat lie when the angle is very obtuse, and an a jut the when the angle is very obtuse, and an upright lie when it is less obtuse. (b) The position of a ball at rest on the course.— Hanging ite, in golf, the position of a ball when it rests on a slope downward in the direction of play.

liebenerite (le'ben-er-it), n. [Named after L. Liebener.] An alteration-product, probably of nephelite, allied to gieseckite.— Liebenerite-porphyry, a nephelite-porphyry which occurs near Predazzo in Tyrol, and in which the nephelite has been altered to a dense aggregate called liebenerite, approaching muscovite in composition.

lie-days (lī'dāz), n. pl. See *lie-time.

And liefty, mine own vassal folk
Do yield their fealty.
M. J. Preston, Cartoons, Bishop's Ban, st. 7.

lie-key (lī'kē), n. In well-boring, a tool on which boring-rods are hung when being raised or lowered. [Scotch.]

lien², n.—Tax lien, a charge or encumbrance upon property which attaches by reason of failure to pay taxes duly assessed thereon; the claim of the state upon property to the amount of unpaid taxes and interest thereon. It has precedence over all other encumbrances on the property. The property may be sold by the state to satisfy the claim.

lienitis (lī-e-nī'tis), n. [NL., < L. lien, spleen, + -itis.] Inflammation of the spleen.

lienogastric (li'e-nō-gas'trik), a. spleen, + Gr. $\gamma a \sigma \tau h \rho$ ($\gamma a \sigma \tau \rho$ -), stomach, + -ic.] Same as gustrosplenic; specifically, in ichth., noting an artery which supplies the stomach, spleen, and part of the pancreas of sharks and other fishes.

lienomyelogenous (li"e-nō-mī-e-loj'e-nus), a. [L. lien, spleen, + Gr. μυελός, marrow, + -γενης, -producing.] Originating in the spleen and bone-marrow: said of a form of leucocythemia.

archer who makes the second greatest number of hits without regard to score, or who first hits the second or next to the innermost circle of the target.

lieutenant, n. 3. In archery, the winner of a second lieutenant, a shooting-match.—Additional second lieutenant, a supernumerary second lieutenant in the United States army: a grade created by Congress, and filled only when the number of graduates in any class of the United States Military Academy exceeds the number of vacancies in the grade of second lieutenant in the army.

lieutenant-at-arms ($l\bar{u}$ -ten'ant-at- \ddot{a} rmz'), n. An old English term for the junior lieutenant. on a man-of-war, whose duty it was to drill the crew in musket and broadsword exercise. Lieut.-Gen. An abbreviation of Lieutenant-General as a title.

Lieut.-Gov. An abbreviation of Lieutenant-Governor as a title.

life, n. 17. In base-hall, an opportunity given to the batsman or base-runner, through an error of the opponents, of continuing without error of the opponents, of continuing without being put out; in sports in general, an unexpected or undeserved opportunity.—Good life, in ins., an insurable risk; one who, according to his present age and condition of health, can secure ordinary life-insurance.—Joint lives, in law, the duration of an estate limited upon the natural lives of two or more persons.—Life sone. See *zone.—Natural life, in law, life the duration of which is determined by actual rather than civil death. then civil death

life-buoy, n.—Luminous life-buoy, a buoy which is self-lighting when thrown into the sea, or one which is coated with a phosphorescent paint and shows against the

life-class (lif'klas), n. A class in an art school or academy for which the living model, usually nude, is posed.

life-form (lif'form), n. In phytogeog., same as *vegetation-form.

Ecological Plant Geography, which considers the life-forms of species, their associations, and their relations to the life conditions. R. Smith, Nat. Science, XIV. 110. life-guard, n. 3. A man employed on a bath-

ing-beach to guard against accidents to bath-[U. S.]

life-holder (lif'hol'der), n. One who holds property for a life or lives.

life-horizon (līf'hō-rī'zon), n. In geol., a stra tum characterized by one or more fossils which in their range are restricted to it.

life-kite (lif'kit), n. Naut., a kite flown from a vessel wrecked on a lee shore, for the purpose of sending a line to the beach, when, owing to the severity of the wind, a line cannot be shot to the ship.

life-line, n, 2. A line used by firemen to lower people from a burning building.—Life-line gun. See **gun!.

iffe-net (lif'net), n. A large net, attached by steel springs to a stiff ring, held by firemen at the height of their shoulders, into which persons may jump from a burning building.

Sorbus Americana. (c) The American spike-nard, Aralia racemosa. (d) The bush-honey-suckle, Diervilla Diervilla.

life-plasma (līf'plas"mä), n. The fundamental plasma or substance in which life or vital force resides.

It is possible that the first life-plasma was stationary.

L. H. Bailey, Survival of the Unlike, p. 17.

life-ring (lif'ring), n. Naut., the ring to which the under part of a breeches-buoy is attached. life-safe (līf'sāf), n. A safe-conduct.

The Advocate . . . has wrung your life-safe out of Simon and the Duke.

R. L. Stevenson, Catriona, ix.

life-saver (lif'sā"vèr), n. A man employed in the life-saving service.

Life-saving station. See station.

life-school (līf'sköl); n. See *life-class.
life-slide (līf'slīd), n. A shallow glass cell used to retain minute living organisms while they are under microscopic examination.

lifesomely (lif'sum-li), adv. In a lively way; with abounding animal life.

Buck, Med. Handbook, II. 69.

lie-time (li'tim), n. In mining, the time for making up accounts, payment for which has to lie over till the following pay-day. Also lying-time. [Scotch.]

Lieut.-Col. An abbreviation of Lieutenant-Colonel as a title.

lieutenancy, n. 4. In archery, a rank or prize at a shooting-match: usually awarded to the at a shooting-match: usually awarded to the by hand for transplanting.—13. To pay off; by hand for transplanting.—1 take off (a mortgage). [U.S.]

So then the spectral mortgage could never be lifted. F. R. Stockton, the Spectral Mortgage.

14. To bring (a constellation) above the horizon in sailing, etc. N. E. D. [Colloq.]

It's the Barralong, to Australia. She'll lift the Southern Cross in a week,—lucky old tub!

R. Kipling, Light that Failed, vii.

15. To drive (sheep or cattle) to market. [Australia.]

Well, Masther John, . . . I won't deny that I have n't lifted a finer mob this season.

Rolf Boldrewood, Squatter's Dream, iv.

Lifting magnet. See *magnet.

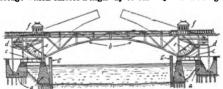
lift', n. 7. (c) In coal-mining, a slice or cut taken off a pillar in stoping. [Scotch.]—9. In textile-manuf., the extent of the traverse In textile-manuf., the extent of the traverse of a guide-eye or bobbin, as on a spinning-frame.—10. In lawn-tennis, a little added power at the end of the stroke.—Hydraulic lift, a hydraulic elevator; an elevator or lift worked by hydraulic pressure on a piston or plunger. [Eng.]—Main lifts, naut., the lifts of the yards on the main mast; the supports for the yards: specifically, the lifts of the main yard.—Missen lifts, naut., the lifts of the yards on the mizzenmast; the supports for the yards.

disappearing battery in which the guns and their carriages are placed on platforms which are raised and lowered like those of piston

The first 12-in. guns to be installed were the two in the lift battery, which was finished in 1896. In this each gun, with its carriage, is mounted on a platform which can be raised and lowered by a direct-acting hydraulic ran.

Encyc. Brit., XXVIII. 454.

lift-bridge, n.—Rolling lift-bridge, a form of lift-bridge which carries a highway or railway over a naviga-



Rolling Lift-bridge.

s, foundation of concrete resting on piles; b, b, spans of bridg-osed and forming a cantaliver arch; c, track on which span ro-rising to open position; d, curved race or tread that rolls ack; e, e, counterweights; f, house for motor and control; g, ader-piles. Dotted lines show spans rolling backward a ward and half open.

ble channel or other passage to be temporarily opened, in which one end of the lift-bridge remains on the abutment and the other lifts or revolves vertically about the stationary end, which is curved like a hoop and rolls backward along a track on the abutment. Frequently the bridge is divided at the center into two half-bridges, each half revolving vertically about the end of the abutment.

lifter¹, n. 2. (b) In founding: (1) A tool used by molders for lifting loose sand from the bot-toms of flange-and rib-molds. (2) One of the hooks suspended from the bars of a molding-box into the mold to support the sand.

tiefly (lef'li), adv. [lief + -ly².] Willingly; life-of-man (lif'ov-man'), n. The name of lifting-arms (lif'ting-arms), n. pl. 1. A pair gladly. [Archaic.]

And liefly, miles own vassal folk

Telephium. (b) The Allerican mountain-ash, the links.—2. Arms for raising valves which are opened by the action of cams, as in some internal-combustion motors.

lifting-cam (lif'ting-kam), n. A cam or lobe on a revolving or rocking shaft which imparts a lifting movement to valves or other mechan-

lifting-cog (lif'ting-kog), n. A curved lever or cam-shaped arm for lifting a poppet-valve in an engine.

lifting-crane (lif'ting-krān), n. 1. A crane for lifting weights. - 2. A swing-crane or derrick in which the arm moves up and down to raise and lower the load, the hook being attached directly to the arm without the interposition of a hoisting-device.

lifting-jet (lif'ting-jet), n. The steam-jet which lifts and forces the water in an ejector The steam-jet or injector.

lifting-nozle (lif'ting-noz'l), n. The combining or forcing nozle in an injector or inspining nozle in an injector or inject rator.

lifting-pallet (lif'ting-pal'et), n. A pawl or projection on a lever or other part of a mechnism used for lifting.

lifting-poker (lif'ting-pō'ker), n. Same as $*poker^1$ (d).

lifting-sail (lif'ting-sal), n. A head-sail the tendency of which is to lift or raise a vessel's bows out of water.

lifting-shaft (lif'ting-shaft), n. The shaft in a locomotive valve-gear which carries the arms for raising and lowering the links or link-

lifting-toe (lif'ting-tō), n. The revolving arm of the rock-shaft of a valve-gear. It takes against the toe on the lifting-rod and transmits motion.

lifting-valve (lif'ting-valv), n. See valve, 2. lift-jigger (lift'jig'er), n. A double and a single block-tackle made fast to the hauling

part of a lift to multiply its purchase.

liftman (lift'man), n.; pl. liftmen (-men). An elevator attendant. [Eng.]

lift-smoke (lift'smok), n. A game of cards lith-smoke (lift'smok), n. A game of cards played by from four to six persons, with the full pack. The cards are dealt one at a time, six to four players, five to five, and four to six. The last card that comes to the dealer is the trump. The play is as at whist. The winner of each trick draws the top card from the stock and leads again. As soon as a player's cards are exhausted he withdraws from the game. The one who outlasts the others, having a card when his adversary has none, wins the pool. Lig (lig), n. Naut., a combination fish-hook and sinker.

lig (lig), n. and sinker.

and sinker.

ligament, n.—Cervical ligaments, two ligaments, the anterior of which connects the basilar fissure of the occipital bone with the bodies of the first few cervical vertebræ, and the posterior of which is the same as the ligament muchæ—Douglas's ligament. See Douglas's Afold.—Gastropancreatic ligament. See Douglas's Afold.—Gastropancreatic ligament. See Douglas's Afold.—Gastropancreatic ligament, see Douglas's phrenic ligament. See **gastropancreatic, **gastrophrenic.—Hepatic ligaments, folds of peritoneum, passing from the liver to adjacent parts, which serve to prevent displacement of the organ.—Hepatocili ligament, a peritoneal fold passing between the liver and the colon.—Hepatorenal ligament, a peritoneal fold stretching from the liver to the right kidney.—Iliopublic ligament. Same as Poupar's ligament (which see, under ligament).—Interosalcular ligament, a ligament connected with the Weberian ossicles of certain fishes.—Ligament of Bertin, the iliofemoral ligament.—Ligament of Henle, the internal portion of the rectus abdominis muscle.—Ligaments of Cooper, fibers passing between the skin and the mammary gland; that part of the fascia of the transversalis which passes from the ileopectineal eminence to the spine of the pubes: fibers passing on the inner side of the elbow, from the coronoid process to the olecranon.—Metacarpal ligament, a ligament connecting the lower ends of the last four metacarpal bonea.—Pancreaticosplenic ligament, a fold of peritoneum passing between the tail of the pancreas and the spleen.—Rhomboid ligament. (b) A ligament passing from the lower ends of the radius to the unciform and cuneiform bones.

ligation, n.—Distal ligation, the tying of an artery, for the cure of aneurism, on the side of the dilatation for the pance of the cure of aneurism, on the side of the dilatation for the pance.

unciform and cuneiform bones.

ligation, n.—Distal ligation, the tying of an artery, for the cure of aneurism, on the side of the dilatation farthest from the heart.—Immediate ligation, the tying of an artery by a ligature passed around the isolated vessel which takes in none of the surrounding tissue.—Mediate ligation, the tying of an artery by a ligature which includes also some of the surrounding tissues.—Proximal ligation, the tying of an artery, for the cure of aneurism, by a ligature around the vessel between the heart and the dilated portion of the artery.

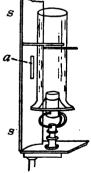
artery.

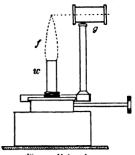
Ligature forceps, needle. See *forceps, *needle.— Ligatures of Stammins, two ligatures, one of which is placed between the sinus venous of a frog's heart and the auricles, causing both suricles and ventricle to cease beating while the veins and the remains of the venous sinus continue, and the second of which is then placed between the auricles and ventricle, causing the latter to begin to beat again while the auricles remain quiescent.—Pro-

visional ligature, a broad ligature passed around a large artery and tied during an operation, but removed when this is completed.—Soluble ligature, a ligature, made of catgut or other animal material, which is absorbed after remaining a time in the tissues.

Ligerian (lī-jē'ri-an), n. [L. Liger (F. Loire) + -ian.] In geol., a substage of the Cretaceous system on the continent of Europe taking its name from the Loire river. It constitutes the lower division of the Turonian stage, and lies immediately above the Cenomanian Also used attributively. beds.

light¹, n. 15. In mech., an opening; a space clear of obstructions.—16. In an acrostic puzzle, each of the words which are to be guessed, zle, each of the words which are to be guessed, their initials (or initials and finals) forming the word or words in which the answer to the puzzle consists. N. E. D.—Actinic light, light capable of affecting a photographic flux or of producing other chemical effects. This property belong chieft, but not exclusively, to the violet and ultra-violet regions of the spectrum. The longer wave-lengths, such as those transmitted by ruby glass, are chemically so inactive as to be commonly termed non-actinic.—Ashen light, a fransition of lumitre cendric, a French term for the earth-shine seen on the moon when it is a narrow crescent.—Astral light. See &astral.—Auer light, so experience.—Combination light, a lantern for a launch which shows a bow light in front and red and green side-light.—One of colored fireworks of special design used. To signals.—Effectioncy of a source of light. See &efficiency.—Electro-ethereal theory of light. See &efficiency and the seed of the skin by exposure to the violet and ultra-violet rays of the spectrum, a method devised by Dr. Niels finase of Copenhagen. Either, adevice used. In the seed of the seed of the seed of the seed of the violet and ultra-violet rays of the spectrum, a method devised by Dr. Niels finase of the seed of the seed of the violet and ultra-violet and the seed of the seed of the violet and ultra-violet and the seed of the seed of the violet and the seed of the se





dismeter, and thickness of wall of which are carefully specified, since the brightness of the flame depends upon these details. The flame (f), which is similar in size and shape to a candle flame, and its height, which under normal conditions should be the similar in size and shape to a candle flame, and the height, which under normal conditions should be the size of the size

Römer (1676) from observations upon the eclipses of the moons of Jupiter. The observed times when the satelites of Jupiter disappear behind the disks of the planet and reappear again are several minutes earlier when Jupiter and the earth are in conjunction than when they are in opposition. From such observations Römer found the time required for a wave of light to cross the earth's orbit to be 164 minutes. The diameter of the earth's orbit being known, the velocity of light could then be computed. The velocity as thus determined was 302,300,000 meters per second, a value now known to be too large. Another astronomical method of computation (Bradley's nethod) is based upon aberration, a phenomenon consisting in the apparent displacement of a star due to the motion of the earth in its orbit. This displacement depends upon the velocity of light, which, computed from such observations, is found to be 299,300,000 meters. The first direct measurements of the velocity of light by a method independent of the motion of the earth in its orbit, was made by Fizeau (Fizeau's method), who introduced into the path of a beam of light a rapidly revolving toothed wheel. Light passing between two adjacent teeth of this wheel is reflected back upon its path by means of a distant mirror, and when the wheel is driven at a certain speed the returning light is intercepted by the adjacent tooth. To an observer looking through proper speed has been attained. The arrangement of the essential features of the apparatus is shown in Fig. 1, in

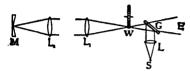


Fig. 1. Velocity of Light-Fizeau's method.

Fig. 1. Velocity of Light—Fizeau's method. which S is the source of light, G an unsilvered glass plate reflecting the light in a horizontal direction, W the revolving wheel, so placed that the apertures between its teeth lie in the focus of the lens L. This lens renders the beam of light parallel, and L₂ focuses it upon a concave mirror M. This mirror returns the light through the lenses L₂ and L₁, and a portion is transmitted through the glass plate G to the eye at E. At the proper speed, as mentioned above, the returning light is intercepted by the wheel. In 1850 Foucault levised another method of determination (Foucault's method). He employed a revolving mirror driven at a high rate of speed by means of an air-turbine. The essential features of this method are indicated in Fig. 2. A beam of light from S, thrown

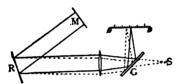


Fig. 2. Velocity of Light-Foucault's method.

upon the revolving mirror R, is reflected to a distant mirror M, thence back to the revolving mirror, and thence to the glass plate G, from the surface of which a portion is reflected to the scale ss. If in the interval occupied by the beam of light in travelling from the revolving mirror to the fixed mirror M and back again the revolving mirror moves through an appreciable angle, the portion of the scale reached by the returning ray will not coincide with that which it would have reached had the revolving mirror been at rest. From the deflection of this beam of light along the scale, the angular velocity of the mirror, and the distance between the revolving mirror and the fixed mirror, the velocity of light is computed. In 1874 Cornu made a determination of the velocity of light by a refinement of Fizeau's method, and obtained the value 300,400,000 meters per second in vacuo. In 1879 Michelson repeated Foucault's measurements with a greatly improved apparatus set up upon a sea-wall at the Naval Academy in Annapolis. The speed of the revolving mirror was 256 revolutions per second, and this was determined with greats accuracy by comparison with the period of a standard tuning-fork. The distance between the revolving mirror and the fixed mirror was very great (about 500 meters) and the deflection of the returning ray was 183 millimeters. Michelson's result for the velocity of light was 299,944,000 meters per second. These experiments were afterward repeated by Newcomb. That the velocity of light in vacuo and in air is nearly the same, whatever be the wave-length of the light, is well established. Any considerable difference of velocity would show itself in Michelson's result for the velocity of light mosune difference of velocity would show itself in Michelson's however. That the different wave-lengths reaching the eye from the stars travel at the same rate is shown by the fact that no momentary color effects are produced in the occultation of the stars by the moon or in the eclipse of Jupiter's satellites. In r

ight³, v.i.—To light in, to run lightly or easily: applied to the inward traverse of the spindle-carriage of a spinning-mule.

ightage (li'tāj), s. [light1 + -age.] 1†. A toll paid by a ship coming to a port where there is a lighthouse. N. E. D.—2. A system

of lighting; the supply of gas, electricity, or other illuminant used for lighting.

light-buoy (lit'boi), n. A life-buoy which automatically ignites a flare upon striking the water, or a channel buoy which carries a light from sunset to sunrise.

light-contrast (lit'kon"trast), n. s brightness-contrast. See *contrast, 5. Same as

lightening-hole (lit'ning-höl), n. In iron ship-building, a hole cut in a plate which forms a part of a vessel's structure, to reduce its weight without reducing its strength for the purpose intended. See cut at *keel1, 2. light-equation, n.— Constant of light-equation.

See *constant.

light-filter (lit'fil'ter), n. In photog., a screen which transmits light selectively and is used to control the composition of the radiation which falls upon the sensitized plate.

light-horseman, n. 2. A fish, Chætodipterus faber, of the family Ephippidæ: found from Cape Cod to Rio de Janeiro. See Chætodipterus with out

terus, with cut.

terus, with cut.

lighting-station (lī'ting-stā'shon), n. An establishment for the generation of electric current to be used in lighting.

light-line (līt'līn), n. Naut., the water-line at which a vessel floats when at light displacement. See *displacement, 3. White, Manual of Naval Arch., p. 47.

light-liquor (līt'lik'or), n. The liquid obtained in the manufacture of glucose or starch-sugar by sufficiently boiling starch with dilute sulphuric acid, neutralizing the acid with calcium

lightning-bug.

lightning-gap (lit'ning-gap), n. The air-gap of a lightning-guard placed in an electric

lightning-hopper (lit'ning-hop'er), n. A homopterous American insect of the family Fulgoridæ. See Fulgora.—Frosted lightning-hopper, a lightning-hopper, Ormenis pruinosa, of a pale green or lead color, covered with a whitish powder which makes it seem frosted.

lightning-pains (līt'ning-panz), n. pl. Sharp darting pains of brief duration experienced in locomotor ataxia

lightning-recorder (līt'ning-rē-kôr'der), n. A modification of the Marconi apparatus for wireless telegraphy which serves to record automatically the accommence of the server of the se matically the occurrence of distant lightning or weaker electric discharges. The natural electric discharge produces an induced current in a local receiving radioconductor or circuit of wire including some form of coherer, tapper, and relay. The latter actuates the recording apparatus proper. Various forms of the lightning-recorder are in use.

lightning-stone (līt'ning-ston), n. Same as fulgurite.

lightning-tree (lit'ning-tre), n. In the Bahamas, the West Indian coral-tree, Erythrina Corallodendron. Its leaves are deciduous and at certain seasons the bright scarlet flowers cover the tree before the new leaves have ap-

peared. See coral-tree and Erythrina. light-port (lit'port), n. Naut., a port-hole; an opening in the side of a vessel for admitting light into a cabin, state-room, or other comrtment.

light-pressure (lit'presh'ür), n. ical pressure due to the impact of light-waves upon a body placed in their path. See pressure, 2 (b).

light-sensation (lit'sen-sa'shon), n. See

lightskirts (lit'skertz), n. A woman of lax behavior. [Rare.]

Hath not Shor's wife although a light skirts she, Given him a chast long lasting memory?

Return from Pernassus, Li. i. 2.

light-spot (lit'spot), n. 1. See the extract.

In view of the recent work of Haberlandt on the light sense-organs of leaves, it may be of interest to record the discovery of similar organs in xerophilous stems. Certain of the epidermal cells of the young stems of the Ephedrese have on their external wall coulcal structures of the nature of papille, the core of the papilla being mucilaginous. This structure acts as a collecting lens focussing the in-

2. A cone-shaped area of reflected light on the drum-membrane. Also called cone of light and pyramid of light.

light-stuff (lit'stut'), n. A trade-name for a volatile liquid obtained in rectifying commercial coal-tar benzine in aniline-dye works: used to some extent as a solvent for indiarubber.

light-telephony (līt'tel"ē-fō-ni), n. See *tele-

light-vector (lit'vek'tor), n. A vector or line which indicates by its length and direction the magnitude and character of the disturbance of the ether (the so-called *light-disturbance*) at any point in a region traversed by polarized light. The light-disturbance s is defined by the equation

 $\mathbf{s} = \mathbf{A} \sin \left(2\pi \frac{\mathbf{t}}{\mathbf{T}} + \vartheta \right),$

phuric acid, neutralizing the acid with calcium carbonate, and separating the calcium sulphate by subsidence, before filtration and the concentration which produces 'heavy-liquor.' light-mill (līt'mil). n. Same as radiometer, 2. Encyc. Brit., XXXII. 128.

lightning¹, n.—Dark lightning, dark lines which sometimes appear on photographs of lightning. They are sometimes due to the excessive actinic intensity of the light from the flash which causes a reversal, giving a positive or bright line on the negative plate and a black line on the positive.

light-years. In terms of the smaller astronomical unit to the sun, it is 62,243 astronomical units. It bears to the smaller astronomical units. It bears to the smaller astronomical units. It bears to the light from the flash which causes a reversal, giving a positive or bright line on the negative plate and a black line on the positive.

light-years. In terms of the smaller astronomical unit to the sun, it is found by dividing the number of seconds occupied by light in coming from the sun, it is found by dividing the number of seconds occupied by light in coming from the sun, it is found by dividing the number of seconds occupied by light in coming from the sun, it is found by dividing the number of seconds on a sidereal year by dividing the number of seconds on a sidereal year by dividing the number of seconds on a sidereal year by dividing the number of seconds on a sidereal year by dividing the number of seconds on a sidereal year by dividing the number of seconds on a sidereal year by dividing the number of seconds on a sidereal year by dividing the number of seconds on a sidereal year by dividing the number of seconds on a sidereal year by dividing the number of seconds on the sun, it is found by dividing the number of seconds occupied by light in coming the sun the sun, it is found by dividing the number of seconds occupied by dividing th

lightning-bone (līt'ning-bon), n. Same as ful- lignilite (lig'ni-līt), n. A columnar or cylindrical structure in limestone. It occurs across the bedding and is due to pressure. Same as stylolite. Geikie, Text-book of Geology, p. 420.

Lignin dynamite. See *dynamite. ligniriose (lig-nir'i-ōs), n. A term applied to a substance said to be a variety of lignin.

lignitiose (lig-nir'i-ōs), n. A term applied to a substance said to be a variety of lignin.

lignite, n.—Bovey Tracey lignites, a deposit of sands and clays containing lignite, of Oligocene age, occurring at Bovey Tracey in Devonshire. These beds are from 200 to 300 feet thick, and are isolated, lying on a granite base, the deposits having been formed in an old lake-basin. The organic remains are chiefly of terrestrial plants, on the basis of which the age of the beds was interred by Heer to be equivalent to that of the Molasse of Switzerland.—Hötting lignites, lignitic beds in the Inn valley, near Innsbruck in the Tyrol, which overlie ancient moraine stuff and are surmounted by scattered erratic blocks. They are thought to represent an interglacial period. They contain plant remains of species still growing in the surrounding country.—Utanach lignites, beds of the Pleistocene or glacial series in Switzerland (St. Gall) which are intercalated in moraine deposits and represent an interglacial period. The lignites contain pines, firs, larch, yew, oak, sycamore, and other trees, and bones of Elephas, Rhimoceros etruscus, Bos taurus (var. primigenius), and other mammals.

lignocellulose (lig'nō-sel'ū-lōs), n. [L. lignum, wood, + E. cellulose.] The material of which woody tissue principally consists. It is commonly associated with more or less cellulose proper, but is distinguishable from it by several reactions, among others by being stained yellow or brown by iodine. Also called bastose.

lignoceric (lig-nō-sē'rik), a. [L. lignum, wood, + erra way + ic.] Noting an arid a color-

called bastose.

lignoceric (lig-nō-sō'rik), a. [L. lignum, wood, + cera, wax, + -ic.] Noting an acid, a color-less compound, C₂₄H₄₈O₂, contained in beechwood tar and in the saponification-products of earthnut-oil. It crystallizes in needles and melts at 80.5° C.

ligno-eosin (lig-nō-ē'ō-sin), n. A trade-name for a product said to be the sodium salt of lig-none-sulphonic acid. It is obtained from the waste digester-liquor of the sulphite process for making woodpulp, and has been proposed for use as a reducing agent in chrome-mordanting wool for dyeing.

lightskirts (lit'skertz), n. A woman of lax lignoin (lig'nō-in), n. [L. lignum (ligno-), wood, behavior. [Rare.]

Hath not Shor's wife although a light skirts she, prepared from old Huanaco cinchons bark.

prepared from old Huanaco cinchona bark.

lignone (lig'nōn), n. [L. lignum, wood, + -in².] Same as lignin.

lignose, n. 2. [L. lignum, wood, + -ose.] A colorless compound, C₁₈H₂₆O₁₁, prepared by the action of dilute acids on glucolignose.

lignosity (lig-nos'i-ti), n. [lignos(e) + -ity.] The character or condition of being ligneous or woody.

colored nowers.—Same act under rocket², 2.

lilial (lil'i-al), a. [NL. *lilialis, < L. lilium.

lily.] Designating plants of the lily kind or related to the lily: as, the lilial alliance. Lind-ley.

Liliales (lil-i-ā'lēz), n. pl. [NL. (Lindley, 1833), < Lilium + -ales.] A large order of monocotyledonous plants It includes the lily

cident rays of light, and a definite area of the cytoplasm of the back wall of the cell is thereby illuminated. Fig. 1, which is a photomicrograph taken in diffuse light of a mounted preparation of epidermis, shows the appearance of these light-spots as seen under 1 objective. Of any object held in the path of the incident rays an image is formed by each of these light sense-organs.

R. J. D. Graham, in Nature, April 4, 1907, p. 535.

A corpus broad cause of redected light on rated with a 10-per-cent, solution of the sulphite. of cellulose. It consists of sulphur dioxid and aromatic compounds which are probably derived from the fir. It is used for inhalation in cases of tuberculosis, the air of the room in which the patient remains being saturated with a 10-per-cent. solution of the sulphite.

lignosulphuric (lig'nō-sul-fū'rik), a. Pertaining to lignin and sulphuric acid, or to sulpholicities acid.

pholignic acid.—Lignosulphuric acid, a syrupy compound formed by treating cellulose with concentrated sulphuric acid.

lignum¹, n. 2. A contraction for lignum-citæ: applied in Australia to several species of trees

because of their tough and hard wood. See the Australian species mentioned under lignum-ritæ.

lignum² (lig'num), n. [An abbreviated pro-nunciation of polygonum.] Any species of the wiry plants of the genus Polygonum. [Aus-tralia.]

ligulate-flowered (lig'ū-lāt-flou"erd), a. Same

as liguliflorous.
liguloid (lig'ū-loid), a. [L. ligula, a var. of lingula, a little tongue, + -oid.] Having the form of a ligula or little tongue; tongueshaped.

where A is the amplitude, t the time, T the period of the disturbance, and ϑ the constant of phase light-year (līt'yēr), n. The distance traversed by light in one year; the unit usually employed in expressing the distances of the fixed stars: sills, and form a part of the great series of deposits termed Molasse or Flysch. Included in the division are the Glarus shales, celebrated for their abundant fish fauna.

II. n. 2. The Ligurian division. Also known as the Rigi beds.

II. n. 2. The Ligurian division. Also known as the Rigi beds.

Ligurianize (li-gū'ri-an-īz), v. t.; pret. and pp.
Ligurianized, ppr. Ligurianizing. [Ligurian + -ize.] To render Ligurian; specifically, make (an apiary or a colony of bees) Ligurian by introducing Ligurian queen bees.

ligustrone (li-gus'trōn), n. [Ligustrum (see def.) + -one.] A colorless bitter compound contained in the bark of Ligustrum vulgare. It crystallizes in needles, melts a little above 100° C., and boils at 260-280° C.

lija (lē'hā), n. [Sp., a dogfish, etc., orig. a fish whose dried skin was used for polishing wood, < lijar, polish, make smooth.] Any one of several fishes of the genus Monacanthus. See leather-jacket, 1 (b).—Lija barbuda, Alutera monocroa, a fish widely distributed in tropical seas.—Lija colorada, Cantherines pullus, a fish found from the West Indies to Brazil.—Lija trompa, Alutera scripta, a fish found in tropical waters along both coasts of America and in the East Indies.

likari (lē-kā'rē), n. A native name of the Cayenne cedar.—Essence de likari. See linaloz-toù.

like², n. 2. In golf, a stroke which equalizes

like², n. 2. In golf, a stroke which equalizes the number played by the other side. like², adv. 6. As well as; as also.

I can counterfeit the deep tragedian ; . . .

Tremble and start at wagging of a straw, . . . ghastly looks

Are at my service, like enforced smiles.

Shak., Rich. III., iii. 5.

Like a lamplighter, with long, rapid strides. Dialect Notes, II. vi. [Colloq.]—Like all possessed, as if bewitched. Dialect Notes, II. vi. [Colloq.]—Like anything, like everything, with such rapidity and intensity of effort as to preclude comparison. [Colloq.]

Like Sam Hill. Same as *like sin.—Like sin, intensely; very hard: as, to work like sin. [Slang.]—Like smoke. See smoke.

moke. See smoke.

likeness, n. — Law of likeness. See *law!.

lil, lill (lil), n. [Said to be Romany.] 1. In Gipsy language, a book; a pocket-book.— 2. A five-pound note. Farmer. [Slang.]—3. A bad bill. Farmer. [Slang.]

lilac, n. 3. A fanciers' name for a peculiar bluish-gray color shown in the coats of some domesticated mice.—California lilac, the blue myrtle, Ceanothus thyrsiforus.—Cape lilac, in Australia, a variety of Melia Azedarach, the tree called white cedar by the colonista. See Melia.—Native lilac, in Tasmana, Prostanthera rotundifolia, a strong-smelling bush of the mint family, bearing quantities of deep-lilaccolored flowers.—Summer lilac, the dame s-rocket, Hesperis matronalis. See cut under rocket?, 2.

lilial (lil'i-al), a. [NL. *lilialis, \lambda L. lilium. lily.] Designating plants of the lily kind or related to the lily: as, the lilial alliance. Lindley.

family and 11 others, the most important being the Juncacese (rushes), Convallariacese (lilies-of-the-valley), Smilacacese, Amaryllidacese, Dioscoreacese (yams), and Iridacese. The lilial alliance of Lindley embraced only the Liliacese, and the Pontederiacese, the latter of which is now referred to the order Xyridales.

liliated† (lil'i-ā-ted), a. [L. lilium, lily, + -ate1 + -ed2.] Ornamented with lilies, especially with the lilies of France.

Lille pottery. See *pottery.

lillianite (lil'i-an-īt), n. [Lillian, name of a mine in Colorado, + -ite².] A lead sulphobismutite, Pb3Bi2S6, which occurs in steel-gray crystalline masses: found in Sweden and in Colorado.

Lillienthal coefficients. See *coefficient.

Illienthal coefficients. See *coefficient.

Illikin (lil'i-kin), n. [Also lellicins, lellokans; origin obscure.] A special size of pin the name for which began to be common in New England about 1775.

Harriot Paine . . . had "corkins, middlings, short whites, lillikins, and lace pins."

A. M. Earle, Costume of Colonial Times, p. 186.

lilliputianize (lil-i-pū'shan-īz), v. t.; pret. and pp. lilliputianized, ppr. lilliputianizing. make like the Lilliputians in size; dwarf.

lilt, v. i. 3. To sway up and down, as a bird on a spray.

Young—of a reddish face—with blue eyes, and he bitted a little on his feet when he was pleased, and cracked his finger-joints. . . . He went to England, and he became a young man, and back he came, litting a little in his walk.

R. Kipling, A Sahibs' War, in Traffics and Discoveries,

his finger-joints. ... He went to England, and he became a young man, and back he came, liliting a little in his walk. R. Kipling, A. Sahibs' War, in Traffics and Discoveries, Ip. 73.

lily, n.—Asa Gray's lily, Lilium Grayi, a delicate plant with oblong-lanceolate leaves and long-peduncied red flowers tinged at the base and spotted within; found on the Peaks of Otter and on high mountain summits of North Carolina.—Barbados lily, the common name of Hippeastrum equestre, a member of the family Amarylidacee. It is a globular bulb 2 inches in diameter, producing offsets, with brown scales and a short neck; the leaves are from 6 to 8 in number and develop fully after the flowers. It is an old garden-plant, and one of the best for winter and spring blooming. The varieties splendens, fulgidum, and ignescens are some of the more common forms of this species. The Barbados lily is found in the region extending between Mexico, Chile, and Brazil.—Beaverlily, the yellow pond-lily, Nymphesa advena. Also called beaver-noot.—Bermuda lily, the Easter lily, a cultural form of Lilium longiforum: so named because it is extensively grown in Bermuda.—Brisbane lily, Eurycles Cunninghami, a Queensland plant of the amaryllis family.—Bullhead lily. Same as beaver-*kily.—Canada lily, Lilium Canodense. See lily, 1.—Garolina lily, Lilium Carolinianum, of the southeastern United States, a rather I shown y species with orange-red flowers nodding on long phoduseles, the long, acuminate, recurved perianth-segments purple-spotted below.—Chamise-lily, the name on the Pacific coast of America for plants of the genus Brythronium. See *faun-lily.—Chaparral-lily, a true lily, Lilium rubescens, of the northern half of California in the Coast Range. Its stem sometimes rises 7 feet or more and often bears as many as 25 flowers, these at first pure white dotted with purple, soon pink, and finally of a deep ruby-purple. It is sald to be the most fragrant of lilles. Near the coast called reducod-lily; inland by this name. Also ruby lily.—Cinton's lily, Cl

a Tasmanian plant of the illy family, bearing long, pendulous racemes of conteal, orange-red flowers; also other species of the same genus: so named from George Gordon, Marquis of Blandford.—Great yellow illy, the American nelumbo or water-chinkapin, Nelumbo lute.—Gunebo lily, Imhofia Sarniensis. See Nerine.—Gunebo lily, Mentzelia decapetala, of the family Losaceæ, native of the Great Plains. It has very large and showy, mostly solitary, and terminal yellowish-white flowers.—Harvest-lily, the hedge-bindweed, Convolutus sepium.—Hedgelily.—Gone fourth natural size. (From Britton and Brown's sheaver-kiliy.—Huckleberry-lily, the red lily.—Jamestown lily, the jimson-weed, Datura Stramonium; also the purple stramonium, D. Tatula.—Lemona Tasmanian plant of who dulous racemes of conical, orange-red flowers;

limen

lily, the day-lily, Hemerocallis fulva.—Liver-lily, the blue flag or flag-lily, Iris versicolor.—Lotus-lily, any species of Nelumbo.—May-lily, the lily-of-the-valley.—Meadow-lily. Same as Canada *tily.—Mound-lily, Yucca gloriosa. See Yucca (with cut).—Murray lily. Same as Darling *tily: so named from the Murray river in Victoria.—Nodding lily, either the Canada lily or the American Turk's-cap lily.—Northern lily. Same as Clinton's *tily.—Philadelphia lily, the red lily, Lil. the two species of Cooperia, C. Drummondii and C. pedunculata, of the southwestern United States and Mexico. They are bull-bous amaryllidaceous plants, with narrow, grass-like leaves, and one-flowered scapes, the large terminal flower having a salver-form, white or pinkish perianth. (b) Same as gunebo *tily.—Red lily, Lilum Philadelphicum.—Of the eastern United States, one of the eastern United States, one of the castern United States, one of the castern United States, one of the satern United Stat

commonest and most attractive of American lilies. The flowers are red or orangered, the perianth segments reflexed and purple-spotted below. The southern red lily is L. Catesbæi.—Redwood-lily. See chaparral-*kily.—Rice-root lily. Same as *mission-bells.—Ruby lily. See chaparral-*kily.—Snake-lily, the blue flag. Iris versiculor.—Spear-lily, the spiderwort, Tradescantia Virginiana.—Spotted lily, in the West Indies, Cordyline hyacinthoides: so named from the spotted leaves. See Sansevieria.—Spring lily, the white dog-tooth violet or

in the West Indies, Cordyline hyacinthoides: so named from the spotted leaves. See (Lilium Philadelphicum). (From Britton and Brown's Sansevieria.—Bpring Illy, "Illustrated Flora of the the white dog-tooth violet or Northern States and Canada.") adder's-tongue, Erythronium albidum, which flowers in early spring.—Straw-lily, the sessile-leaved beliwort, Uvularia sessilifolia.—Trinity Illy, the large-flowered wake-robin, Trillium grandiforum.—Tout-Illy, the yellow dog-tooth violet or adder's-tongue, Erythronium Americanum.—Yellow Illy. (b) In Tasmania, same as native *Leek.

lily-disease (lil'i-di-zēz'), n. See *disease. lilywort (lil'i-wert), n. A plant of the lily family.

and v. t. A simplified spelling of limb. limacin (lim'a-sin), n. [L. limax, snail, + -in².]
An organic substance obtained by Braconnot

from the garden-snail (Limax agrestis).

limacodid (lim-a-kō'did), a. and n. I. a. Having the characters of or belonging to the lepidopterous family Limacodidæ.

II. n. A member of the family Limacodidæ.

lima-lima (lē-mā'lē-mā'), n. [Tagalog lima-lima, a reduplication of lima, five, = Bisaya lima = Samoan, etc., lima, Maori rima, five.]

See *galamai-amo.
liman (lē-mān'), n. [Russ. limanŭ, an estuary
= Turk. liman, harbor, ζ NGr. λιμάνι, Gr. λιμήν harbor.] A marsh, usually salt, at the mouth of a river; especially applied to the delta of the Dnieper river, Russia.

Limanda (li-man'dä), n. [NL., < L. limus, mud.] A genus of flounders found on both coasts of northern North America and in

eastern Asia: known as "dabs."

Lima oil. See *oil.

Limatula (li-mat'ū-lä), n. [NL., dim. of Lima.] A genus of Jurassic prionodesmaceous pelecy-pods, characterized by valves which are medi-ally ribbed, laterally smooth, and without

limb¹, n. 6. In geol., that portion of an anticline or syncline which lies on either side respectively of the arch or trough. Also called leg and flank.—Pectoral limb, pelvic limb. See pectoral, pelvic.

limb², n. 4. In bot.: (b) The blade or broad

part of a leaf.

limbation (lim-bā'shou), n. [NL. limbatio(n-),

 ⟨L. limbatus, edged, bordered, ⟨limbus, edge: see limb².]

 1. The formation of a distinct
 border or margin.—2. A margin or border. Smithsonian Rep. (Nat. Mus.), 1897, p. 331.

limber-hook (lim'ber-huk), n. Same as pintle-

limber-passage (lim'ber-pas'āj), n. A channel on each side of the keelson of a wooden vessel to permit the bilge-water to flow to the pumps. Same as limber 2, 3. See cut under pumps. keel¹, 2.

limber-plate (lim'ber-plat), n. Same as limber-board.

limbo¹, n.—Limbo of fools (limbus fatuorum), a fools' paradise.

limbo² (lim'bō), n. [Zulu ulembu, web.] A kind of coarse cotton cloth worn by South Africans.

limbous (lim'bus), a. [NL. *limbosus, < L. limbus, edge; see limb².] Having a definite border.

the valves of a bivalve shell from the disk to the border or margin. Syd. Soc. Lex.

[Ime], n. 3. In leather-manuf., a vat containing a solution of lime for unhairing skins.

[C. T. Davis, Manuf. of Leather, p. 331.—Bicarbonate of lime, calcium acid-carbonate, CaH2(O3)2, assumed by some chemists to exist in water which contains carbonic acid and in consequence has dissolved a quantity of calcium carbonate greater than could be taken up by the water alone. It is very doubtful whether such an acid salt really exists; it has never been obtained in separate form.—Caustic lime, calcium hydroxid; also, calcium oxid.—Ohlorid of lime. Same as bleachiny-powder.

It probably has the composition Ca {C1. : not to be confounded with chlorid of calcium (Ca C1.). See calx chlorata, under calx1.—Dead-burnt lime. See *dead-burnt.—Dead lime, a lime that does not slake with water: opposed to quicklime.—Lime cylinder, lime in the form of a cylinder which is from time to time revolved, and upon which a jet of oxyhydrogen flame is thrown in producing the so-called calcium light. See calcium ight.—Lime silicate. Same as *duinie.—Overburnt lime, lime made from limestone containing silicious matter, such as clay, and heated so strongly in the kiln that silica and alumina have entered into combination with a part of the lime, causing it to slake slowly and imperfectly.—Permanganate of lime, the chlef ingredient in the mixture recommended by Crookes for use in purifying the dangerous drinking-water which was encountered by British troops in the Ashanti campaign of 1873-74. The mixture, intended also to clarify the water, consisted of 1 part of lime (or calcium) permanganate, 10 parts of aluminium sulphate, and 30 parts of fine clay.—Vienna lime, a mixture of caustic potash and alaked lime used surgically as an escharotic, and also in scouring metals to remove grease. See Vienna caustic.

lime³.—Finger-lime, Citrus Australasica, a small tree of eastern Australia, bearing slender thorns, and ellipsold or almost cylindrical fruits, 2-4 in

lime-bug (līm'bug), n. A scale-insect found on the lime-tree, either Eulecanium tiliæ or ulvinaria tiliæ.

lime-coal (lim'köl), n. Small coal used for lime-burning: one of the grades formerly made at collieries in the east of Scotland.

lime-craig (līm'krāg), n. Limestone rock in situ: the face of a limestone quarry. [Scotch.] lime-juicer, n. Hence—2. A British ship on which the lime-juice law is carried out.

The working of the ship, the life of the men, their trials and amusements are all combined in the story; in fact, the book gives a better idea of the life on a "lime-juicer" than any previous work we have seen.

Forest and Stream, Feb. 21, 1903, p. 163.

3. In Australia, a new-comer; one who has made the voyage on a lime-juicer; a green-horn; a 'new chum.'

lime-liniment (līm'lin'i-ment), n. A mixture or emulsion consisting of equal parts of a solution of lime or lime-water and linseedoil; carron-oil: used for burns.

lime-mud (lim'mud), n. Same as *lime-sludge. lime-myrtle (lim'mer'tl), n. In the West In-dies, Triphasia trifoliata. See Triphasia.

limen (li'men), n.; pl. limens (-menz), L. limina (lim'-nā). [L. limen, threshold.] 1. In exper. psychol. and psychophys., the threshold; the dividing line between noticeableness and the dividing line between noticeableness and unnoticeableness of stimulus. The limen is defined in physical or physiological terms as that amount of stimulus or degree of excitation (or as that stimulus difference or difference of excitation) which, after complete elimination of all errors, remains just noticeable to an accurate observer; or again as that amount of stimulus (or stimulus difference) which, after elimination of constant errors, remains just noticeable to the observer in one-half of a long series of observations. The term may be applied to any one of the four possible aspects of stimulus and excitation (intensity, quality, duration, extension), and to any stimulus that serves as the condition of mental state or process; so that we may speak of the intensive limen, the temporal limen, the affective limen, the limen of attention, etc. It is clear that the correlate of the limen, upon the mental side, is not a part of real experience, not a state or process that can be ideated and remembered and voluntarily reproduced: liminal values are always ideal values.

The object of these experiments was to determine the

The object of these experiments was to determine the limens of approach and recession of the fixation-object for various distances.

Amer. Jour. Psychol., April, 1903, p. 173.

The term limen (Schwelle, threshold) was introduced into psychology by Herbart in 1811; a liminal stimulus,

or liminal stimulus difference, is that which lifts the sensation or the sense-difference over the threshold of

consciousness.

2. In anat., the portion of brain-substance situated between the base and the island of Reil.—Absolute differential limen or difference limen. See *absolute and *difference.—Discriminative limen or threshold, in psychophys., the just noticeable stimulus difference or difference limen.—Limen masi, the line of junction in the nasal cavity between the cartilaginous and the bony portions.—Limiting limen, in psychophys., the upper or lower limit of the stimulus limen or differential limen. Thus, in esthesiometric determinations, the upper limiting limen is given with the least separation of the compass-points which invariably evokes the judgment 'two points': while the lower limiting limen is given with that separation below which the observer always reports 'one point,' and above which the always reports 'doubt' or 'two points.' The value of the lower limiting limen may be accurately determined; the determination of the upper appears to be dubious. E. B. Titchener, Exper. Psychol., II. ii. 19.—Mixture limen, in Fechnerian psychophys., a limen which is modified by the addition of a qualitative to a merely quantitative change of stimulus, or by the concurrence of other stimuli (or excitations) with the stimulus or stimulu to be sensed or compared. The mixture limen includes the ordinary homogeneous stimulus limen and differential limen as limiting cases.—Partial limen, in psychophys., the positive or negative division of the total limen in Fechner's method of right and wrong cases.—Quotient limen, (I. Hene), n. [Limes] + -ene.] A sesquienterenterment. E. B. Titchener, Exper. Psychol., II. i. 3

limene (li'mēn), n. [lime 3 + -ene.] A sesquiterpene, $C_{15}H_{24}$, contained in oil of limes and in bergamot-oil. It boils at 130-140 $^\circ$ C. under 7 millimeters pressure.

lime-nitrogen (līm'nī"trō-jen), n. See the extract.

extract.

Prof. Adolf Frank and Dr. Caro, of Berlin, found that when nitrogen is passed over red-hot calcium carbide it is absorbed with formation of calcium cyanamide. This latter, when treated with water under high pressure, is made to yield ammonia; but it is not necessary to do this, since the crude product, which they have called "limenitrogen," can serve directly as nitrogenous fertiliser, and is in that respect equivalent to its own weight of ammonium sulphate.

Nature, April 25, 1907, p. 619.

lime-pot (lim'pot), n. A pot for holding lime, which was formerly employed in naval engagements for blinding boarders.

gagements for blinding boarders.

limerick (lim'e-rik), n. [Said to have originated in the words "Will you come up to Limerick," occurring in the chorus of convivial songs of the character described in def. 1. See N. and Q., 9th ser., II. 470 (Dec. 10, 1898).]

1. A nonsense song or verse, one of a series of impromptu productions of a free character, sung at convival parties in Ireland. sung at convivial parties in Ireland.

"But come, give us a Limerick. Cheer us up now! give us a good Limerick. You must know thousands."
"I assure you I do not. I have never been in Ireland."
The Duke burst out into a mirthless laugh. "Well, upon my — What's Ireland got to do with it?"
R. Hichens, The Loudoners, xvi.

2. A nonsense verse of a fixed type, more or less amusing, of the pattern of those written by Edward Lear in his "Book of Nonsense." See *Learic. The following is an example:

There was a young lady of Niger,
Who rode, with a smile, on a tiger:
They returned from their ride,
With the lady inside,
And the smile on the face of the tiger.

limerickite (lim'e-rik-īt), n. A name given by Meunier to the type of gray chondritic meteorite illustrated by the meteorite which fell in Adare, in the county of Limerick, Ire-

ieii in Adare, in the county of Limerick, Ireland, in 1813. See *meteorite.

lime-rock (lim'rok', n. Any rock in which calcite is a prominent constituent.—Vermicular lime-rock, in New York geol., a name given by A. Eaton to certain impure dolonites appertaining to the Salina formation which are perforated by numerous small irregular cavities produced by the crystallization and removal of salt, gypsum, and celestite.

lime-shells (lim'shelz), n. pl. Calcined lime-

lime-sludge (lim'sluj), n. A manufacturers name for the precipitate of more or less impure calcium carbonate produced in the conversion, by means of lime, of sodium-carbonate liquor into solution of caustic soda. Also called lime-mud.

lime-soap (līm'sop), n. Same as calcium soap. See soap.

See soap.

limestone, n.—Agoniatite limestone. See *agoniatite. Anseremme limestone, a division of the Lower Carboniferous formation in Belgium and northern France.—Augusta limestone, a name introduced by Keyes to include the Burlington and Keokuk limestones in Iowa as exposed along the Mississippi river from Burlington to the mouth of the Des Moines river. These rocks are of Lower Carboniferous age and equivalent to Osage limestone.—Austin limestone, a limestone lying near the middle of the Cretaceous series in Texas.—Aymestrey limestone, fit the Silurian system of England and Wales, a subdivision of the uppermost or Ludlow group, lying between the Upper and Lower Ludlow rock. It is an argillaceous limestone having a total thickness of 50 feet,

but is essentially a lentill in the vicinity of Aymestrey, Hersfordahire. It abounds in fossils, but less so than the Wenlock limestone beneath, and in the faume of these two there is relatively little difference.—Bachamical on in Belglum and northern France.—Barnegat limestone, a name given by the early New York geologists to the limestone which, intercalated in able, crosses the Huddon river near Newburgh and which was correlated by them with the Califerous anadatone. It is now-ton limestones. Its thickness is probably not less than 500 feet.—Becraft limestone is probably not less than 500 feet.—Becraft limestone in the New York series of formations, criginally called the Score of the reck has long been quarried.) A limestone in the New York series of formations, originally called the Score Hedderberg roup of strate. It belongs to the lowest or Helderberg roup of strate. It belongs to the lowest or Helderberg roup of strate. It belongs to the lowest or Helderberg roup of strate. It belongs to the lowest of Helderberg roup of strate. It belongs to the lowest of Helderberg roup of strate. It belongs to the lowest of Helderberg roup of strate. It belongs to the lowest of Helderberg roup of strate. It belongs to the lowest of Helderberg roup of strate. It belongs to the lowest of Helderberg roup of strate. It helder the strate of the top, beneath the York Ewen beds and above the New Scotland limestone. It abounds in fossil remains, and from its purity is highly element by the York State and the adjoining regions, originally termed by Eaton the "Californous sandrous". It is regarded as the lowest member of the Lower Silurian of the York State and the adjoining regions, originally termed by Eaton the "Californous and the Advision of the Lower Silurian in the Mohawk valley the beds are almost devoid of organic review of the property of the Silurian in the Mohawk valley the beds are almost devoid of organic remains, are nightly dolomitic, and have been locally designated as the Luttle Falls and the strategies of the

parable in origin and mode of formation to the organic deep-sea cozes which cover the floor of the present cocesina—Fresh-water Ilmestone, a compact deposit formed in lakes and points by the accumulation of the Cover Cretaceous beds in Texas constituting the middle part of the Trinity formation, underlain by the Trinity sands and overlain by the Paluxy sands.—Granville Ilmestone, a limestone of curring at Grenville, Cancandrian in age. In it was tound the supposed early lossil Kozon canadriae.—Gutenstein Ilmestone, a subdivision of the Triassle system in the northern Alpine basin in upper and lower Austria, which is underlain by the Reichenhall limestone, overlain by the Reithing Hippurita Ilmestone, a limestone with the contains in abundance the singular pelectyped genus Hippuritae. Such beds occur at various horizons in the Upper Cretaceous strata and gives a distinctive factes to certain developments of these rocks as contrasted with the contains in abundance the singular pelectyped genus Hippuritae. Such beds occur at various horizons in the Upper Cretaceous strata and gives a distinctive factes to certain developments of these rocks as contrasted with the contain ng appecies. They also extend into southern Asia, and a hippurite limestone in the containing the containi

said various local names have been given them. In places they are of great economic value as marbles. The more important varieties are the Stockbridge Imassion of Vermont and Massion that the bealth in Weppinger timestone of Dutchess county, New York, the Neelythown Ilmestone of Obuchess county, New York, the Neelythown Ilmestone of Obuchess county, New York, the Kittatiany Ilmestone of Orange county, New York, the Kittatiany Ilmestone of Orange county, New York.

— Torinosu limestone, a limestone at the base of the Cretaceous system of Japan, containing an abundant marine fauna, apparently of Neccomian age.—Tuscumbia Ilmestone, a member of the Mississippian series of the Carboniferous system of Alabama. It forms the upper part of the Fort Payne chert and is supposed to be equivalent to the St. Louis limestone, a member of the Carboniferous limestone series of Yorkshire and Northunberland, England.—Ute limestone, a member of the Carboniferous limestone, a formation in the Wahastch Mountains regarded as equivalent to the St. Louis limestone, a division of the Triassic system in the southern Alps, lying on the Werlen beds and below the Frezzo limestones: regarded as representing the Ninschelaki in the Carinthian Alps and southern Tyrol.—Vise limestone, a division of the Lower Carboniferous or Mississippian series of lova and adjoining territory, lying above the typical Keokuk beds or the 'goode-bed' of that formation. See geode.—Willow River limestone, a division of the Lower Carboniferous or Mississippian series of lova and adjoining territory, lying above the typical Keokuk beds or the 'goode-bed' of that formation. See geode.—Willow River limestone, a division of the Wenlock group of the Upper Silurian, lying beneath the Wenlock shale and resting on the Upper Liandovery rocks. This limestone takes a lenticular form, swelling and decreasing in thickness of the course in the typical Upper Si

lime-tower (lim'tou'er), n. A piece of apparatus used in chemical laboratories for drying gases or absorbing from them acid gases or gases or absorbing from them acid gases or vapors. It consists of an upright cylinder of glass, with two tubulures, one at the top, the other at one side at the bottom. This being loosely filled with fragments of lime, the gas is brought in at the one tubulure, usually at the bottom, and drawn out at the other, and is thus brought into contact with a large surface of lime, which acts as drying and purifying agent. The same apparatus is often filled with calcium chlorid instead of lime when desiccations only its desired. on only is desired

limettic (li-met'ik), a. [NL. limetta (Citrus limetta) + -ic.] Noting an acid, a crystalline compound, C₁₁H₈O₆, obtained by the oxidation of oil of limes or oil of rosemary. It is crystalline and volatilizes without decomposition. limettin (li-met'in), n. [NL. limetta + -in².]

O-CO A colorless compound, $(CH_3^{\circ \circ}O)_2C_6H_2 < CH = CH'$ contained in the ethereal oil of Citrus limetta. It crystallizes in small prisms or needles melting at 147.5° C. liminal, a. Specifically—2. In psychophys.,

pertaining to the stimulus limen or differential limen. See *limen.

We may also introduce the concept of the limen, defining the just noticeable deviation from indifference as a liminal pleasantness or unpleasantness.

O. Külpe (trans.), Outlines of Psychol., p. 243.

The average liminal value obtained in these preliminary series gives us a norm or standard for the later work.

E. B. Titchener, Exper. Psychol., I. i. 85.

B. B. Titchener, Exper. Experience, A. L. Liminaris, < limen, threshold: see liminal.] Being at the threshold; introductory; preliminary.

A vessel for water; pertaining to fresh-water life.

liming-box (li'ming-boks), n. A vessel for holding a thin solution of lime to be used in the process of bleaching cotton cloth and the

liming-machine (lī'ming-ma-shēn'), bleaching, a machine for washing cotton cloth in a solution (or milk) of lime.

in a solution (or milk) of lime.

limit, n. 7. In poker, an amount, agreed upon before play begins, by which any one player may increase his bet over that of another. Sometimes called the raise.—Limit class, a class or division limited to animals possessing certain qualifications or characters: usually employed with reference to some exhibition or contest in which prizes are given.—Limit of resolution, the smallest visual angle which two points may subtend if they are to be separated in the image formed in the eye or by any optical instrument. The actual limit for the eye is about a minute of arc; for a telescope having an objective of 20 centimeters in diameter it is 0.7 seconds of arc.—Natural limit, a limit beyond which the series representing a function cannot be continued.—The limit, the utmost that is possible; the worst there is; as applied to a person, one so queer or so objectionable as to be almost beyond toleration. [Colloq.]

"What with your spook horses and cats you've got me going, I can tell you. You're the limit. You — you.—" he sputtered, so furious he could not finish the sentence. C. S. Pearson, Romance of the Race Course, iv. Uniform limit, in math., a one-valued limit. limit, v. t.— Limiting point. (b) See *point1.

limivorous (lī-miv'ō-rus), a. [L. limus, mud, + vorare, eat, + -ous.] Feeding on mud in order to get the organisms contained in it, as certain worms.

limnanthaceous (lim-nan-thā'shius), a. Be-

limnanthaceous (lim-nan-thā'shius), a. Belonging to the plant family Limnanthaceæ.

Limnatis (lim-nā'tis), n. [NL., an error or altered form for *Limnitis, { Gr. λιμνῆτις, fem. of λιμνῆτις, living in marshes, { λίμνη, marsh, lake: see Limnetis.] A genus of leeches of the family Gnathobdellidæ, found in the Nile. Its members are small in size and if swallowed may become attached to the hinder part of the mouth-cavity and cause various objectionable results, such as spitting of blood and retarded respiration.

limnean, limnæan (lim-nē'an), a. [Gr. λιμναίος, of or from the marsh or standing water (*λίμνη, a marsh, lake, pool), + -an.] In phytogeog., same as *limnetic.

These all, with floating stems and leaves, form with

These all, with floating stems and leaves, form with Eleocharis interstincta, E. mutats, and E. cellulosa a mingling of the Hydrochardian and Limmean classes of hydrophytes. C. Mohr, Plant Life in Alabama, p. 126.

limnemia, limnæmia (lim-nē'mi-ä), n. [NL. limuæmia, ζ Gr. λίμνη, marsh, + αίμα, blood.] Malarial cachexia.

limnemic, limnemic (lim-ne'mik), a. [limnemia + -ic.] 1. Relating to or suffering from malarial cachexia.—2. In biol., adapted to live in marshes or marshy places.

Limnerpeton (lim-ner'pē-ton), n. [NL., < Gr. λίμνη, marsh, + ἐρπετόν, reptile.] A genus of branchiosaurian Amphibia with naked body and broad frog-like skull, from the Permian

The development of limnetic copepods.

Amer. Nat., July, 1903, p. 503.

Specifically-2. Noting the free-floating or free-swimming microscopic organisms found in rivers, lakes, pools, and other bodies of fresh water. Sometimes used synonymously with pelagic.

The limetic or pelagic organisms are those that make their home in the open water. They float or swim freely and are drifted about by every current. . . Then there are organisms that may be said to be facultative limetic forms, that is, they are sedentary or free-swimming at will.

G. C. Whipple, Microscopy of Drinking-water, p. 105.

Limnetic plankton. See *plankton.

limnigraph (lim'ni-graf), n. An erroneous form of *limnograph.

limnimeter (lim-nim'e-ter), n. An erroneous form of *limnometer. limnimetric, a. An erroneous spelling of *lim-

nometric.

biology + -ic.] Of or pertaining to limnobiology or the scientific study of the animals and

ology or the scientific study of the animals and plants that live in fresh water. Smithsonian Rep., 1898, p. 510.

limnobiological (lim'nō-bī-ō-loj'i-kal), a. Same as *limnobiologic.

limnobiology (lim-nō-bī-ol'ō-ji), n. [Gr. λίμνη, marsh, lake, + Ε. biology.] That branch of science which deals with the animals and plants which live in fresh water as contrasted with those of the ocean. with those of the ocean.

with those of the ocean.

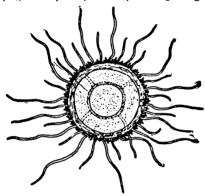
From having been the special study of geologists in its physical aspects, limnology is now rapidly becoming the peculiar study of biologists, and attempts are even being made to limit the meaning of the word to the study of organic life in lakes, which would be denoted more correctly as timno-biology.

Encyc. Brit., XXX. 272.

limnobios (lim-nō-bī'os), n. [NL., \langle Gr. $\lambda i \mu \nu \eta$, marsh, lake, poud, $+\beta i o_{\zeta}$, life.] The animals and plants of fresh water considered collectively and in contrast with the animals and

tively and in contrast with the animals and

tively and in contrast with the animals and plants of the ocean and those of the land. Haeckel (trans.), Planktonic Studies, in Rep. U. S. Fish Com., 1889-91, p. 580. limnobious (lim-nō'bi-us), a. [Gr. λιμνόβιος, living in a marsh or lake, $\langle \lambda i\mu\nu\eta$, a marsh, lake, $+\beta i\rho\varsigma$, life.] Living in marshes or pools. Limnocnida (lim-nok'ni-dä), n. [NL., \langle Gr. $\lambda i\mu\nu\eta$, marsh, lake, $+\kappa\nu i\delta\eta$, nettle.] A genus

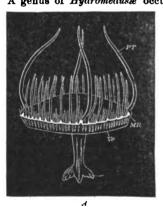


Limnocnida, from the oral surface (after Günther), (From Lankester's "Zoology.")

of fresh-water hydromedusans known only from Lake Tanganyika.

Limnocodium (lim - nō - kō 'di - um), n. [NL., ⟨Gr. λίμνη, marsh, lake, + (†) κώδιον, a fleece.]

A genus of Hydromedusæ occurring in fresh





A, Limnocodium as seen floating; about three times natural size. MR, marginal nerve and cnido-blast ring; Ve, velum; PT, perradial tentacle. (After Lankester.) B, polyps of Limnocodium on weed. (After A. G. Bourne.) (From Lankester's "Zoology.")

water and found up to the present time only in the Victoria regia tank of the Royal Botanical Society of London.

The discovery and description of the Okapi, Conclestes, yctotherus, Rhabdopleura, Cephalodiscus, Limnocodium, and Pelagohydra, were the work of British zooloists. Rep. Brit. Aso'n Advancement of Sci., 1903, p. 673.

limnogram (lim'nō-gram), n. [Gr. λίμνη, marsh, lake, + γράμμα, a writing.] The curve of height of water for each moment of time as recorded automatically by a limnograph. limnograph (lim'nō-graf), n. [Gr. λίμνη, marsh, lake, + γράφεν, write.] An apparatus for keeping a continuous record of the height of water especially in a lake.

water, especially in a lake. See *limnometer. In order to study the seiches in Loch Ness, a limnograph, constructed in Geneva under the supervision of Dr. Ed. Sarasin, was set up.

Nature, Jan. 7, 1904, p. 236. nometric.

limnobatid (lim-nob'a-tid), n. and a. I. n.

A member of the heteropterous family Limnobatids.

II. a. Having the characters of or belonging to the family Limnobatids.

limnobiologic (lim'nō-bi-ō-loj'ik), a. [limnobiologic]

limnobiologic (lim'nō-bi-ō-loj'ik), a. [limnobiologic]

limnobiologic (lim'nō-bi-ō-loj'ik), a. [limnobiologic]

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limnology (lim-nol'ō-ji), n. [Gr. $\lambda i \mu \nu \eta$, marsh, lake, pond, $+ -\lambda o \gamma a$, $\langle \lambda \ell \rangle \epsilon \iota \nu$, speak.] The scientific study of lakes and ponds, with especial reference to the organisms which live in them.

In the last quarter of the 19th century the study of lakes was raised to the rank of a special science, mainly by the exertions of Prof. F. A. Forel, to whom is due the generally accepted name immology. Limnology includes the complete study of lakes, geographical, physical, chemical, and biological, so conducted as to throw light on the mutual relations of all the natural conditions affecting them. ural conditions affecting Encyc. Brit., XXX. 271.

limnometer (lim-nom'e-ter), n. [Gr. $\lambda i \mu \nu \eta$, a marsh, lake, + $\mu \ell \tau \rho \sigma r$, measure.] A form of



Sarasin's Limnometer.

a, table supporting box b, containing the self-registering apparatus, whence a rotating rod / extends to a pulley-wheel near c, and moving with the float e which is surrounded by a large cylinder (not shown in figure), to ward off objectionable waves, ripples and winds. The rotations of f are recorded on a long sheet of paper wrapped about the roller g, which revolves by clockwork.

tide-gage, first devised by Forel and Sarasin for recording small oscillations in Swiss lakes and applied by Nakamura and Yoshida to tidal oscillations in Japanese harbors; specifically, Sarasin's limnometer of 1901, which is properly a *limnograph (which see).

limnometric (lim-nō-met'rik), a. [Also limnimetric; $\langle \text{Gr. } \lambda \mu \nu \eta, \text{ marsh, lake, } + \mu \epsilon \tau \rho \nu,$ measure, + -ic.] Pertaining to the measurement of bodies of fresh water, such as lakes or ponds.

A Federal hydrographic office has, with the help of some Cantonal governments, spread over the territory of Switzerland a net of limnimetric stations, where observations on the slope, depth, discharge, width, and variations of the watercourses are regularly carried on.

Geog. Jour. (R. G. S.), IX. 318.

The following table gives some of the limnometric values communicated by the author or obtained provisionally from the material now available.

Geog. Jour. (R. G. S.), XVI. 219.

limnophilid (lim-nof'i-lid), n. and a. I. n. A member of the trichopterous family Limno-

philidæ. II. a. Having the characters of or belonging to the family Limnophilidæ.

ing to the ramily Limnophinae.

limnoplankton (lim-nō-plangk'ton), n. [NL., ζ Gr. λίμνη, marsh, lake, + NL. plankton.] The floating and swimming organisms of fresh water, considered collectively and as contrasted with the floating and swimming fauna and flora of the ocean, or haliplankton. See *haliplankton.

The totality of the swimming and floating population of the fresh-water may be called *limnoplankton*, as opposed to the marine haliplankton which we here briefly

all plankton. *Haeckel* (trans.), Planktonic Studies, in Rep. U. S. Fish [Com., 1889–91, p. 580. limon² (lē-môn'), n. [F. limon, OF. limun, < ML*limo(n-), < L. limus, mud, slime: see lime¹ and limous.] A deposit of detritus along the borders of rivers; loess.

At the foot of the Alps, where black schists are largely developed, the loess is dark gray; but west of the secondary chain the same deposit is yellowish and composed almost entirely of silicious materials, with only a very little carbonate of lime. This timon, or loess, . . . is generally modified towards the top by the chemical action of rain.

imoncillo (lē-mōn-thēl'yō), n. [Sp. dim. of limón, lemon.] 1. In Porto Rico, any one of several trees of the myrtle family, especially Pimenta racemosa, from the leaves of which is distilled the oil used for making bay-rum.— 2. In the southwestern United States and Mexico, any one of several species of Pectis,

especially *P. papposa*, *P. diffusa*, and *P. uni-aristata*, small, yellow-flowered composites, with linear glandular-dotted leaves, and a strong odor of lemon. In many localities these plants are used for making beverages and are administered in the form of decoctions as a remedy for fever and ague and for other maladies. Also called lemonweed and romerillo.

romerillo.

limoncito (lē-mōn-thē'tō), n. [Sp. limoncito, diminutive of limon, lemon.] In the Philippine Islands, Guam, and on the west coast of Mexico, the orangeberry, Triphasia trifoliata, a shrub with glossy, dark-green, trifoliata leaves, white flowers with the fragrance of hyacinth, and globular berries of an orangenyaethth, and globular berries of an orange-scarlet color filled with a somewhat gummy, bitter-sweet pulp, which has the flavor of cursçao liqueur. The plants send up many shoots from the root and form dense thickets if undisturbed. They are much used for hedges, and from the fruit marmalade and jelly are made, of an orange-like flavor, but I having a constipating effect if eaten in any quantity. Also called limoncito de China and lemoncito.

lemoncilo.

Dense thicket of lemoncilo (Triphasia aurantiola) not now in bloom, thorny shrubs with glossy trifoliate leaves, sending up shoots from the roots and consequently well adapted for hedges. Found a few lemoncilo berries remaining on the bushes, orange-scarlet in color, filled with a somewhat gummy, bitter-sweet pulp, with a flavor like Curaçoa liquor.

Plant World, Feb., 1903, p. 26.

Curaçoa liquor.

Plant World, Feb., 1903, p. 26.

limonene (lī'mō-nēn), n. [NL. limonum, lemon, +-ene.] A general term applied to certain terpenes, C₁₀H₁₆. The dextrorotatory derivative is also called heperidene, carrene, and citrene. The inactive compound is termed dipentene, cajuputene, cinene, discoprene, isoterebentene, etc.

limonillo (lē-mō-nēl'yō), n. [Amer. Sp., dim. of Sp. limôn, lemon: see lemon.] A composite plant, Picradenia odorata, of the southwestern United States. It exhales the odor of lemons.

Also limonilla.

Also limonilla.

limonitization (li "mō-nī-ti-zā shon), n. [limonite + -ize + -ation.] In petrog., the change of a mineral or rock into limonite.

Limonium (li-mō'ni-um), n. [NL. (M.ller, 1759) (L. limoniom, lemonion), < Gr. λειμώνιου,

1139 (L. Anonwa, temotion), \ Gr. Ατίμανιον, seas-lavender or snakeweed, prop. neut. of λειμάνιος, adj., < λειμάνιο, a moist meadow.] A genus of dicotyledonous plants of the family Plumbaginaceæ.

Himont limestone. See *limestone. limophthisis (li-mof'thi-sis), n. [NL., \langle Gr. $\lambda \mu \rho \rho$, hunger, $+ \phi \theta i \sigma \iota \rho$, wasting.] Emaciation due to inability to take sufficient nourishment.

due to inability to take sufficient nourishment.

limotherapy (li-mō-ther'a-pi), n. [Gr. λμός, hunger, + ὐεραπεία, medical treatment.] The treatment of disease by reduced diet.

limousine (lim-ō-zēn'), n. [F., fem. of limousin, a., of Limousin (or Limoges).] 1. A cloak of goats' hair or coarse wool worn by peasants and wagon-drivers.—2. A type of automobile body, in which the rear seats are inclosed by fixed sides, back, and top. The front seats are commonly separated from the rear part of the body by movable glass windows.

limpet-hammer (lim'pet-ham'er), n.

limu (lē'mö), n. moss or seaweed, Chamorro and Malay tumut. Throughout Polynesia, a generic name for mosses and seaweeds.—Limu fuafua, in Samos, Caulerpa clavifera, an alga with a pepper-like taste similar to that of Laurencia pinnatifida: used by the natives for food and said to be much relished by turtles.—Limu lipos, in Hawaii, Dictyopteris plagiogramma, the favorite seaweed of the natives, who always have it at their feasts and celebrate it in their songs.

limule (lim'ūl), n. [NL., < Limulus.] A king-

crab, Limulus.
limulid (lim'ū-lid), n. One of the Limulidse. lin⁴ (lin), n.
lind¹. A provincial pronunciation of

linage² (lī'nāj), n. [Also lineage; < line² + -age. Compare lineage¹.] 1. Lining; arrangement in line.—2. In printing: (a) The quantity of matter estimated in lines. (b) Payment or rate of payment by the line.

linaloa-oil (lin-a-lō'a-oil), n. See *oil.

linaloa (lin-a-lo'ol), n. [linaloa + -ol.] A name of two chemical compounds, differing in their effect on polarized light. The dextrorotatory isomer is identical with coriandrol. The levorotatory derivative, which is also called licareol, is contained in linaloa-oll, from the white cedar of Cayenne, and in

the oils of spike, lavender, thyme, sassafras-leaf, and many other plants. It is a colorless liquid, boiling at 190-196° C.

linamarin (li-nam'a-rin), n. [L. linum, flax, + amarus, bitter, + '-in.] A bitter glucoside contained in Linum usitatissimum. It crystallizes in needles, melts at 134° C., and yields hydrocyanic acid when hydrolyzed.

Linc., Lincs. Abbreviations of Lincolnshire.

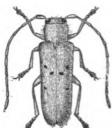
linch3 (linch), v. t. [linch(-pin), n.] To fasten

with a linch-pin.
lincrusta (lin-krus'tä), n. [lin(seed-oil) + L. crusta, crust.] A trade-name for a kind of linoleum or oil-cloth, embossed and colored in various designs, intended as a covering for various designs, intended as a covering for the surface of walls and ceilings. It is made with wood-fiber, oxidized linseed-oil, resinous matter, and pigment. In full, linerusta Walton. lindackerite (lin-dak'e-rīt), n. [J. Lindacker, name of the first analyzer, + -ite².] A hydrous arseniate and sulphate of copper and nickel, occurring in green tabular crystals and reniform messes: from Lagahimsthal Rohemia.

occurring in green tabular crystals and reniform masses: from Joachimsthal, Bohemia. inden inchworm. See *rinchworm.—Linden leafbeetle. Same as *kladder-beetle.—Southern linden, Titia pubescens, a small tree of the eastern United States, chiefly southward, but ranging from Long Island to Morida and Texas. It has small leaves, often not heartshaped, and sometimes densely woolly beneath.—White linden, the white basswood, Titia heterophylla, a large tree of the Appalachian region, having large leaves which are white beneath and have a fine downy pubescence.

linden-borer (lin'den-bor'er), n. An Ameri-can cerambycid beetle,

werm), n. Any one of several lepidopterous larvæ which feed on the foliage of the linden, notably the larva of the lime-tree winter-



Enlarged one half.

moth (which see, under winter), the larva of the notodontid Datana ministra, and that of the pyralid Pantographa

Itmain.

A Lindernia (lin-der'ni-s), n. [NL. (Allioni, 1755), named in honor of F. B. von Lindern (1682-1755), a German botanist and physician.] A genus of plants of the family Scrophulariaceæ. See Vandellia, bitter-blain, and *haimarada.

Lindia (lin'di-i), n. [NL.] A genus of freshwater rotifers, of the family Notommatidz. The body is elongated and cylindrical, with a projecting tail, but not annulose, the corona is obliquely truncated, the head bears auricles, and the trophi are virgate. Also Notommata.

lindiform (lin'di-fôrm), a. [Lindia + L. forma, form.] In entom., having the shape of the genus of rotifers Lindia: said of certain insect larvæ.

limpet-hammer (lim'pet-ham'er), n. In prekistoric archwol., one of the oblong flak-lindleyed to have been used to knock limpets off rocks.

limu (lē'mö), n. [= Polynesian limu, or rimu, moss or seaweed, Chamorro and Malay lumut.]

Throughout Polynesia, a generic name for mosses and seaweeds.—Limu flafus, in Samoa, Caultrus damifers an lers with a pennerillie tast sint.

The discovery of the exogenous structure in many Carboniferous Pteridophytes (Calamites, Stigmaria, Sigillaria, even Lepidodendron) overthrew the old *Lindleyan* classification into endogens and exogens, which was supposed to be fundamental.

Science, July 1, 1904, p. 26.

lindoite (lin'dō-īt), n. [Lindō, an island near Christiania, Norway, + -ite².] In petrog., a name given by Brögger to certain fine-grained syenites, sometimes having a trachytic texture, composed chiefly of alkali-feldspar, with little or no ferromagnesian constituents. They little or no ferromagnesian constituents. They are in part highly feldspathic facies of sölvabergite. Rosenbusch classes them with bostonites.

Lindsæa (lind-zē'ā), n. [NL. (Dryander, 1793). named after John Lindsay, a surgeon in Jamaica.] A genus of small polypodiaceous ferns of the tribe Davallieæ, with mostly pinnate or bipinnate fronds, having obloug or lunate, unilateral pinnæ or pinnules with linear marginal sori borne in a continuous or interrupted line at the summit of the radiat-

ing forked veins, and uniting two or more of them. There are about 30 species, mainly tropical, in appearance closely resembling Adiantum of the tribe Pterideæ, but readily distinguished by the presence of a special indusium attached on the interior side, forming with the place margin childhicks.

indusium attached on the interior side, forming with the plane margin a bilabiate furrow within which the sori are borne.

lindsayite (lind'zā-īt), n. [From a proper name, Lindsay, +-ite².] See *lepolite.

line², n. 4. Specifically—(b) pl. In naval arch., the form of a vessel as shown by the lines formed by the intersections of its surface with three sets of parallel planes. The intersections with the transverse vertical planes give the square stations or frame-lines corresponding to the frames shown in their true form in the body-plan; the intersections with the horizontal planes give the water-lines or level-lines shown on the half-breadth plan; and the intersections of the vertical longitudinal planes give the bowand buttock-lines shown on the sheer-plan. Besides these three sets of planes, diagonal planes are used to assist in defining the form by the diagonal lines (which see, under *diagonal*). See cut showing the lines of the forward half of a vessel, under forebody.

18. In elect.: (a) Short for line of magnetic force. See magnetic *circuit* and magnetic force, under magnetic.

This machine has a flux of 2,100,000 lines. At this flux the density in the pole piece will he 2, 100,000 divided by

This machine has a flux of 2,100,000 lines. At this flux the density in the pole piece will be 2,100,000 divided by 47½ equals 44,210.

Practical Electricity, p. 68. (b) That part of an electric circuit which connects generating and receiving stations or apparatus. It may be overhead and consist of electric conductors supported by insulators on poles and brackets, or it may be underground and consist of insulated cables.

19. In fencing, that part of the body directly opposite to the enemy, in which the central part of the right side, the right arm, and the sword ought always to be found, and in which are also to be placed the feet at the distance are also to be placed the feet, at the distance of 18 inches from each other. In this sense, a fencer is said to be in his line, to go out of his line, etc. Chambers.—20. In printing, a straight row of type or of print as it appears in the page of a book or the column of a newspaper. With letters or characters it is a line of print; without them it is a white line; if partly print and partly blank it is a broken line.

21. In boat- or yacht-racing, an imaginary

and partly blank it is a broken time.

21. In boat- or yacht-racing, an imaginary line extending between two fixed points and marking the beginning or end of the course, or both.—22. In art, the conventional representation of the theoretical limits of surfaces or of

both.—22. In art, the conventional representation of the theoretical limits of surfaces or of their elements. It is usually a mark made by a dark substance upon a light one; but the reverse may be true. It may represent the contour of an object, in which case it is called outline, or the direction of action, or be simply decorative. A series of lines may give the impression of light and shade, as in engraving or etching.

At the present time all criticism of art is determined by the "line." All caprices and whims of the "line" are now ridden as much to death, and with the same enthusiasm, as were formerly those of "light."

Encyc. Brit., XXXII. 448.

All along the line. (a) Milit., from one end to the other of the line in a military formation. Hence—(b) At every point.—Baillarger's line, a band of nerve-fibers in the cortex of the brain. Also called Baillarger's layer. Encyc. Brit., XXXII. 544.—Basal lines. Same as beach **traights.—Blackiston's Line, an imaginary line passing through Tsugaru Strait, between the main island of Japan (Hondo) and the island of Hokkaido (formerly called Yezo), separating the temperate and semitropical fauna of southern Japan from its subarctic fauna. This line marks the northern limit of monkeys, pheasants, catfishes, and numerous other forms of life of warm regions.—Break line. See **bilod.**biloe.—Brotatine, Same as *botom-line.—Break line. See **full line (b).—Brocard line, Same as *botom-line.—Break line. See **full line (b).—Brocard line, Same as *botom-line.—Break line. See **full line (b).—Brocard line, Same as *botom-line.—Break line. See **full line (b).—Brocard line, Same as *botom-line.—Break line. See **full line (b).—Brocard line, Same as *botom-line.—Break line. See **full line (b).—Brocard line, Same as *botom-line.—Break line. See **full line (b).—Brocard line. Same as *botom-line.—Break line. See **full line (b).—Brocard line. Same as *botom-line. Same as *boto

line. Sane as Brocard *straight.—By line, with perfect accuracy.

Yes, sir, to carry quarrels,
As gallants do; to manage them by line.

B. Jonson, The Alchemist, ii, 1.

Center-line. (a) See *center-line. (b) In ship-building, the central fore-and-aft line of a vessel at any level: loosely used for the central vertical longitudinal plane.—Conjugate lines on a surface, in geom., lines whose directions at any point are those of the conjugate diameters of the indicatrix at that point.—Dimension lines, the lines on a mechanical drawing which indicate the points or planes whose distance apart is expressed by a given dimension. These lines are drawn very lightly, or with colored ink, to distinguish them from the outlines of the figure.—Douglas's line, See Douglas's *fold.—Dressed line, hackled flax, consisting of the long fibers.

Nearly all of the best grade of long fiber, "dressed line," is used for making twines, yacht cordage, etc.; cheaper grades are made into binder twine.

Yearbook U. S. Dept. Agr., 1901, p. 542.

Enhanced line, a line which is made more conspicuous relatively to other lines in the same spectrum by substituting a strong electric spark for the electric arc in producing the spectrum. It has been very generally assumed that the spark is hotter than the arc and that the enhancement is due to the increase in temperature, but this is not true in all cases.—Euler's line, Same as Euler's **straight.—Parre's line, a whitish mark on the ovary indicating the line of attachment of the mesovarium.—

Fast line, in surv., a line determined in position and

measured .- Frégier line, Same as Frégier *straight. measured.— **Prégier line**. Same as *Frégier katraight*.— **Halleyan line**, an imaginary line which passes through all points on the earth's surface that have the same magnetic declination; an isogonic line.— **Influence line**, in engin., a line or curve having as abecisse the distances of a load from one end of a girder and as ordinates the bending moment or shear due to the load.— **In line**, in stock-breeding, from a particular or definite family: as, to breed in line.

Seek your stock bull with little regard to whether he is bred strictly "in line" or not. Don't be afraid of any good outcross. Rep. Kan. State Board Agr., 1901-02, p. 56.

Seek your stock bull with little regard to whether he is bred strictly "in line" or not. Don't be afraid of any good outcross.

Rep. Kan. State Board Agr., 1901-02, p. 56.

Isopiestic line, in thermodynam, a curve showing the relation between volume and temperature in a body or system the pressure of which remains constant; an isobar.— Lemoine line. Same as Lemoine **straight.— Light water-line. See water-line.— Line-complex. See **complex.— Line-of-battie ship. Same as ship of the line (which see, under ship).— Line of departure, in gunnery, the line in which a projectile is moving when it leaves the muzzle of the gun.— Line of march, the route followed, as by a column of troops or other body of people.— Line of regard, in optics, the line of vision or line of sight.— Line of slope, on a surface, the line of least inclination to the horizontal plane.— Line of syzygies. — Line of Yeaq d'Ayyr, a continuation, near the calcarine fissure, of the line of Baillarger. Also called Vicq d'Azyr's band.— Line of weakness, in geol., a line of disturbance on the earth's surface, so called because along it relief has been afforded for internal strains. Lines of weakness are marked by upheavals (as of mountains), faults, and volcances.— Line with intervals, a line of forts, redouts, or other disconnected field-works.— Loaded line, in elect., a telephone-line or cable in which distributed inductance is made to counteract distributed capacity, thus improving the conditions for the transmission of speech.

To the electrical engineer there is no such word as "fall," and the "loaded line" in which objectionable inductance is made to counterbalance and neutralize equally destructive capacity, has produced a circuit whereby even trans-oceanic telephony seems within grasp.

Elect. World and Engine. March 5, 1904, p. 447.

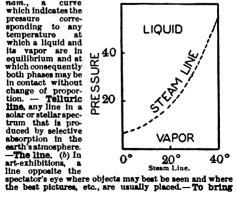
Load water-line. See vester-line.— Mammary line. Same as mammillary *line* in hims. The produced a circuit whereby even trans-oceanic telephony seems within grasp.

Elect. World and Engine. March 5, 1904, p. 447.

Oppel's Lines.

a variable optical illusion of extent, described by J. Oppel in 1856-57. The two lines of the accompanying figure are objectively equal; but the 'filled' line to the right appears longer than the 'unfilled' line to the left. See Fig. 3, under *illusion, 2.—Paris line, an unit of length, equal to *ita of length of the left. See Fig. 3, under *illusion, 2.—Paris line, an unit of length equal to *ita of length of le

pressure corresponding to any temperature at which a liquid and its vapor are in



into line. (a) Milit., to aline. (b) Figuratively, to bring into accord; cause (a number of persons) to agree.—
Tonal line, in psychol., the continuous series of tonal sensations, bounded by the highest and lowest audible tones. See Drobisch's *spiral.

Music has selected at option from this continuity single sensations separated by considerable intervals, thus substituting a tonal scale for the tonal line.

W. Wundt (trans.), Outlines of Psychol., p. 51.

To ride the line. See line-riding.—Vicq d'Azyr's line. See *kine of Vicq d'Azyr.—Wollaston line. Same as Fraunhofer line. See spectrum.

line², v. I. trans.—To line out, to transplant (seed-lings) from the seed-bed to rows in the forest nursery. II. intrans. 2. To form in a line: usually with up.

line³, v. t. 6. In bookbinding, to cover the inner sides of (a book-cover) with paper; support the back of the folded sections of a book with thin lawn or linen in the process of binding.

binding.

linea, n.— Linea aspera. (b) A line which marks the separation of the dorsal surface of the optic thalamus from the adjoining surface of the tenia and caudate nucleus.— Linea semicircularis. Same as temporal *crest.— Linea thalassinica, a groove or crack which runs lengthwise on each side of the cephalothoracic carapace in certain crustaceans of the tribe Thalassinidea.— Lines albicantes, white lines in the skin after stretching, as in the skin of the abdomen after pregnancy. lineage² (lin'āj), n. Same as *linage².

lineal, a. 5. Of or pertaining to the line or officers of the line in the army or navy.

There is a growing belief that the most effective solution of the engineering problem lies in the formation of a corps of line officers for engineering duty exclusively, or one of engineer officers having positive rank and lineal titles, either corps to be recruited yearly by Annapolis graduates in sufficient numbers to maintain it at full strength.

*Cassier's Mag., quoted in Army and Navy Jour., Nov. 18, [1906, p. 316.

lineamentation (lin'ē-a-men-tā'-shon), n. [lin-eament + -ation.] The grouping and forms of lineaments.

inear acceleration. See *acceleration.—Linear capacity, in elect., the electrostatic capacity per unit of length of a linear condenser, such as a cable or a line or wire.—Linear projection, in crystal. See *projection.—Linear set. See *set!.—Linear space. (b) See *space. linearifolious (lin'i-ar-i-fo'li-us), a. In bot., having linear leaves.

linearize (lin'ē-a-rīz), v. t.; pret. and pp. linearized, ppr. linearizing. [linear + -ize.] To represent by means of lines; transform from pictographic to linear characters.

pictographic to linear characters.

Finally, in 1900, his [Dr. Evans's] discovery of the clay archives in the prehistoric Palace of Cnossus had supplied conclusive evidence of the existence of both a semi-pictorial and a linearized system of writing of a highly developed kind. The relations of the two scripts, however, had remained obscure. Athenseum, Dec. 5, 1903, p. 757. linearoid (lin'ë-a-roid), a. [linear + -oid.] In group theory, quasi-linear.

On differential equations belonging to a ternary linearoid group.

Science, April 24, 1903, p. 666. lineatures (lin'ë-a-tür), n. [lineate + -use.]

lineature; (lin'ē-a-ţūr), n. [lineate + -ure.]

Outline. line-ball (līn'bâl), n. In billiards, a ball with its base on a line.

line-bar (līn'bar), n. In the customary printing of hymn-tunes and similar music, a heavy bar to mark the end of a line of the words and of the corresponding musical phrase or strain. Its place may often be in the midst of a measure, but if it falls at the end of a measure it then takes the place of the ordinary bar (see bar1, 11). When a line-bar needs to be distinguished from the usual bar the latter is called a measure-bar.

line-boat (lin'bōt), n. A boat used for handline fishing in the sea.

line-breeding (lin'bre ding), n. Another name for in-and-in breeding.

line-car (līn'kār), n. A freight-car owned by a fast-freight company, or by an association of railways, and designed to be used on several different roads or through-freight routes. A line-car is thus often a foreign car. See foreign *car.

line-cod (lin'kod), n. See line-fish.

line-cut (lin'kut), n. A photomechanical reproduction on metal, for relief-printing purposes, of an illustration drawn in outline, showing the object in its relation to white and black only.

line-cutting (lin'kut'ing), n. The cutting of lines of magnetic flux by the conductors of the electric circuit of a generator, considered, in accordance with the conceptions of Faraday, as the source of the induced electromotive force. *Encyc. Brit.*, XXVII. 574.

line-displacement (lin'dis-plas'ment), n. Dis-placement of the lines in the spectrum of a star, due, generally, to motion of the star in

the line of sight. Displacements may also occur from intense pressures in stellar atmospheres, but in that case different lines are not affected alike.

The line-displacements of the bright star acquaint us merely with its rate of motion as projected upon the visual plane; they correspond to a mean orbital radius of 620,000 miles, the real path being perhaps als or eight times wider than that spectroscopically indicated, while the companion-ellipse traversed by the dark satellite may be of any imaginable size.

A. M. Clerke, Problems in Astrophysics, p. 321.

line-firing (lin'fir'ing), n. In vet. surg., a method of treating chronic inflammations, consisting in burning parallel lines in the skin, over the seat of inflammation, with a featherover the seat of inflammation, with a featheredge firing-iron or thermocautery: used principally in cases of chronic tendinitis, spavin,
etc., of the horse. U. S. Dept. Agri., Rep. on
Diseases of the Horse, 1903, p. 331.
line-hunter (lin'hun'tèr), n. A hound which
trails the game by scent alone.
line-hunting (lin'hun'ting), a. Trailing game
by the scent alone, as distinguished from
hunting by sight.

hunting by sight.

The old slow line-hunting staghound.

Saturday Rev., Feb. 1, 1890, p. 135.

line-knife (līn'nīf), n. In whaling, a knife used for cutting the harpoon-line when it is foul.

lineless (līn'les), a. [line2 + -less.] Having no lines; without lines.

linen-drapery (lin'en-dra'per-i), n. The establishment, occupation, or goods of a linen-

linenette (lin-en-et'), n. [linen + -ette.] cotton fabric made in imitation of linen.

lineocircular (lin'ē-ō-ser'kū-lār), a. [L. linea, line, + circularis, circular.] A term used by Sylvester as descriptive of the Peaucellier ad-

line-officer (līn'of"i-ser), n. See line2, 14. lineoid (lin'é-oid), n. [L. linea, line, + -oid.] In math., the assemblage of points of an ordinary (linear) 3-space (space of three dimensions) of point 4-space.

lineole (lin'ē-ōl), n. A lineola.

line-pair (lin'par), n. 1. A degenerate form of a conic, consisting of two straight lines which together form a locus of the second degree.

Of sections of the cone, he [Kepler] says, there are five species from the "recta linea" or line-pair to the circle.

Encyc. Brit., XXVIII. 658.

2. A curve of the second order which breaks

up into two straight lines.

line-pusher (lin'push'er), n. The appliance in the monotype type-setting and -casting machine that pushes the finished lines from the type-channel to the galley.

For "leading" matter automatically there is a receptacle—which the operator can easily keep supplied with leads—out of which, by the action of a small lever, a lead can be delivered behind each line as the line-pusher carries it into the galley.

*Census Bulletin 216, June 28, 1902, p. 61.

liner¹, n. 6. A fine-pointed red sable brush, with a metal ferrule and wooden handle.—7. with a metal ferrule and wooden handle.—7. ling², n.—Draw-ling, puli-ling. Same as hare's-tail, A vessel engaged in line-fishing at sea.—8. l.—Wire-ling, the crowberry.

One who writes items for the press, which are lingasarira (ling'gä-sä-re'rä), n. [Skt. linga-paid for by-the line; a penny-a-liner.—9. A carira, the imagined typical or subtle body, picture hung 'on the line,' at an exhibition. linga, mark, token, image, in the Vedanta [Colloq.] N. E. D.—10. In law, one whose legal domicile must be determined by some supposed indestructible original of the gross residual barietations riskled by the series body. The Same as hare's-tail, see **Aoil.**

See *Aoil.**

Sing 2, n.—Draw-ling, puli-ling. Same as hare's-tail, a verification of the gross static points. The series have static puli-ling. Same as hare's-tail, a verification of the gross static puli-ling. Same as hare's-tail, a verification of the gross static puli-ling. Same as hare's-tail, a verification of the gross static puli-ling. Same as hare's-tail, a verification of the gross static puli-ling. Same as hare's-tail, a verification of the gross static puli-ling. Same as hare's-tail, a verification of the gross static puli-ling. Same as hare's-tail, a verification of the gross static puli-ling. Same as hare's-tail, a verification of the gross static puli-ling of the gross static puli-ling. Same as hare's-tail, a verification of the gross static puli-ling of the gross static pull-ling of t specific legislative or judicial act, by reason of the fact that his place of residence is situated upon a boundary line between different jurisdictions.

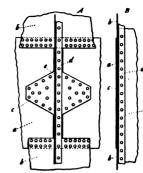
That J... M. N..., a liner between the counties of Chambers and Lee, is declared to be a citizen of Lee County.

**Laws of Alabama*, 1866-67, p. 175.

liner2, n. 3. In mach.: (b) A cylinder or vessel placed inside another cylinder or vessel as a lining: frequently used in engines or pumps to protect the main cylinder from wear and injury and to facilitate making repairs. —5. In iron ship-building, a piece of plate used to fill up a narrow space between a plate and a bar or in the seam of two plates so that they can be riveted solidly together in places where, owing to the arrangement of the parts, the adjoining surfaces cannot be brought into close contact. A frame-liner is one whose width is linguistical (ling-gwis'ti-l that of the flange of the frame-bar, extending between the edges of adjacent sunken strakes of outside platinguistic. Ing and filling the space between the frame-bar and the Lingula flags. See *flag*.

head and the raised strake of outside plating. It is much wider than the flange of the bar to compensate for the weakness in the outside plating due to the close spacing of rivets necessary for water-flightness. of rivets necessary for water-tightness. See cut. A taper liner is one having a wedge shape to fill up a triangular

line-scale (lin'skāl), n.
printing, In measure, similar to a foot-rule, used to show the length of a line.



Water-tight Bulkhead-liner. A, elevation; B, section; a. raised or outer strake of outside plating; b. b, sunken or inner strakes of outside plating; c. line; a, bulkhead bounding-bar; c, water-tight bulkhead plate.

A line of matter is progressively perforated and charged until, as the end is approached, the line-scale shows that the next word or syllable can not go into that line.

Census Bulletin 216, June 28, 1902, p. 58.

line-screen (lin'skren), n. In photog., a screen upon which fine lines are ruled, used in photo-

line-linkage (lin'ling'kāj), n. See *linkage.
linen-drapery (lin'en-drā'per-i), n. The establishment, occupation, or goods of a linendraper.
linenette (lin-en-et'), n. [linen + -ette.] Acotton fabric made in imitation of linen.
linen-tester (lin'en-tes'ter), n. Same as linenprover.
lineocircular (lin'ē-ō-ser'kū-lār), a. [L. linea, + circularis, circular.] A term used by Sylvester as descriptive of the Peaucellier adjustment or linkage for converting circular line-shaft (lin'shaft), n. Same as intercently line, + circularis, circular.] A term used by Sylvester as descriptive of the Peaucellier adjustment or linkage for converting circular line-shaft (lin'shaft), n. Same as intercently lines are ruled with a diamond, and are filled in with black plgment. Two sheets of such ruled glass are cemented together, face to face, with the lines crossing at right angles, to form the screen.
line-shaft (lin' shaft), n. A main shaft: (a) A long shaft, in a factory or shop, which furnishes power to the countershafts for the various machines. It may be driven directly by the engine, by a belt from the engine, or by a motor. (b) In marine engin., the part of the propeller-shaft which reaches from the trust-shaft to the tail-shaft.
line-shaft (lin' shaft), n. Same as *line-shaftting (lin' shaft' ting), n. Same as *line-shaftting (lin' shaft' ting), n. Same as *line-shaftting (lin' shaft'), n. Same as *line-shaf

linesman, n. 2. In Amer. foot-ball, one of the forwards; also, the man who has charge of the measurements of the distance gained

raised strake of outside plating. A wide liner or water-tight bulkhead-liner is one fitted in the space between the bounding-bar of a water-tight bulkhead and the raised strake of outside plating. It is much ally by a narrow pedicel-furrow. It occurs in the Cambrian of North America and Europe.

Lingulepis (ling-gū'le-pis), n. [NL., Lin-gula, 2, + Gr. λεπίς, a scale.] A genus of atrematous linguloid brachiopods characterized by having the pedicel-valve much produced at the beak with no distinct cardinal area. It occurs in the Cambrian of North

linguliform (ling-gū'li-fôrm), a. [L. lingula, lingula + forma, form.] Resembling a ling

linguolabial (ling-gwō-lā'bi-al), a. and n. [Prop. "linguilabial, < L. lingua, tongue, + labium, lip, + -all.] I. a. Of, pertaining to, or formed by the tongue and lips. as a sound or letter. Stud. Yale Psychol. Lab., X. 113.

II. n. A letter or articulation produced by the tongue and lips.

linguonasal (ling-gwō-nā'zal), a. and n. [Prop. *linguinasal, < L. lingua, tongue, + nasus, nose, + -all.] I. a. Of, pertaining to, or formed by the tongue and the nose, as a sound or letter.

II. n. A sound or letter formed by the tongue and nose.

[linguopalata] (ling-gwō-pal'ā-tal), a. and n. [Prop. *linguipalatal, \langle L. lingua, tongue, + palatum, palate, +-al¹.] I. a. Of, pertaining to, or formed by both tongue and palate: said of various sounds or letters.

said of various sounds or letters.

II. n. A sound or letter produced by the tongue and palate. Keane, Man Past and Present, p. 124.

linie (lin'i-e), n. [G., MHG. linea, OHG. linea, C. L. linea, line: see line².] The twelfth part of the zoll or inch; a line. C. Hering, Conversion Tables, p. 33.

linin, n. 2. The substance which forms the reticulum of the nucleus and incloses the chromatin

inesman,
the forwards;
of the measurements
and assists the umpire in ...
A workman engaged in the erectal tenance of the line-wires of a telegrap...
telephonic system, or of electric circuits or any sort.

Ine-spectrum (lin'spek'trum), n. A spectrum consisting of bright lines, as distinguished from band-spectrum, like that of the sun, crossed by the dark lines of Fraunhofer is also sometimes referred to as a line-spectrum. See spectrum.
A continuous spectrum, like that of the sun, crossed by the sase ine-spectrum. See spectrum.
Ine-sphere (lin'sfer), a. Pertaining to or connecting the straight line and the sphere.
Ine-sphere (lin'swich), n. In elect, a switch for opening and closing the main line of an electric circuit.
Ine-up (lin'up), n. In athletic games such as electric circuit.
Ine-up (lin'up), n. In athletic games such as large the line-up (lin'werk), n. In art, drawing exercial line-spin line work (lin'werk), n. In art, drawing exercial line-spin line line of single new ork (lin'werk), n. In art, drawing exercial line joining two given points. (b) A double tangent.—9. In music, a connecting passage of one or more measures, intervening between two well-defined sections or phrases.—Link polygon. Same as functual polygon.—Open link, a darking an opening in one side, the ends lapping but not in contact: a chain-link in which the ends are brought together and butted against each other, but a subtle body (the consecution of the steam of the same the gross

The Sanskrii

astral body.

gou'an), n. See *gowan.

gou'an), n. See *gowan.

The weight attached to the heddle-cord in al point of the symphysis of the lower jaw on its lingual surface. Von Török.

lingual surface. Von Török.

lingual surface. Von Török.

lingual surface. Von Török.

lingualized, ppr. lingualizied, ppr. lingualized, ppr. lingualized, the fintial so of the root to which its prefixed.

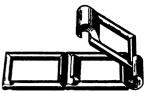
Whitney, Sansk Gram, p. 185.

linguistic, a. II. n. Same as linguistics. inguistic, a. II. n. Same as linguistics. inguistical.

ingual flags. See *fag4.

Peaucellier's linkage. Same as Peaucellier cell (which

link-belt (lingk'belt), n. Same as *link-belting. link-belting (lingk'bel'-ting), n. A belt for the transmission of power, composed of a series of detachable links



Link-belt.

link-carrier (lingk'kar'i-er), n. A metal piece which carries the link in a locomotive valve-gear; a stirrup.
link-form (lingk'fôrm), n. A transitional form

between two races or groups of organisms.

Some stress was laid on Haeckel's discovery of Ctenaria as a possible link-form between Hydromedusæ and Ctenophora.

Encyc. Brit., XXVII. 301.

link-grate (lingk'grāt), n. An endless grate made up of links so that it can be run like a made up of links so that it can be run like a belt over sheaves or pulleys. The coal is put on the grate at one end or over one sheave, and is burned while traveling to the end where the ashes are dumped off. Elect. World and Engin., May 7, 1904, p. 863.

link-hanger (lingk hang er, n. In a locomotive, the suspension-rod fastened to the link-saddle in a Stephenson link-motion valve-

gear by which the weight of the link and of the eccentric-rods is borne, and by which the link itself is raised and lowered.

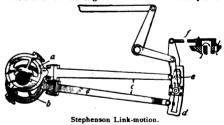
Linkia (ling ki-ä), n. [NL. (Cavanilles, 1797), named after Heinrich Friedrich Link (1767-1851), professor of botany at Berlin.] A genus

of dicotyledonous shrubs of the family Pro-teaces. See Persoonia and *geebung.

linking-up (ling'king-up), n. The act or pro-cess of altering the position of the links or link-blocks in a reversing and cut-off engine fitted with Stephenson links, to produce an earlier cut-off and greater expansion; hence, the making of the cut-off earlier in any engine. Also called hooking-up.

Also called hooking-up.

link-motion, n.—Allan's link-motion, a form of valve-gear for steam-engines in which the link is raised as in Stephenson's and the valve-rod lowered as in Gooch's, to reverse and produce cut-off; but since the link and slider-block are both moved, each need only be moved half as far as in either of the other forms. The link is straight and not a part of a circular arc, and is more easily manufactured.—Gooch's link-motion, a form of link-motion, derived from Stephenson's, in which the slot-link was not lifted and lowered, as in Stephenson's, but the rod to the valve was so adjusted in the slot of the link. The valve-rod had to be long enough to be jointed, but no variation in lead occurred, because the eccentric-straps were not awing around the shaft in adjusting the position of the sliding-block. The radius of the link was that of the length of the first section of the valve-rod.—Stephenson link-motion, a form of valve-gear for steam-engines which enables the engine to be reversed easily and to



Stephenson Link-motion.

Operate with a variable cut-off. It was first designed by Howe and was used by Stephenson in early English locomotives. The elements consist of (a) one eccentric set at the proper angle shead of the engine-crank for forward movement; (b) another set for backward motion; (c) two eccentric-rods or-blades from these two eccentrics to the top and bottom respectively of (d) the link or slot-link; and (e) the sliding-block in the slot of this link which carries the pin to which the valve-stem (f) is fitted, either directly or through a rocker-shaft and arms. When the link is lowered, the forward eccentric (a) drives (f); when the link is raised, the backward eccentric (b) drives (f). In intermediate positions the block (e) is actuated partly by both (a) and (b), and, as these are in opposite phase or nearly so, the motion of (f) becomes less, and the port is opened during a smaller portion of the piston-stroke, and an earlier cut-off results. Stephenson's is differentiated from other link-motions by having the link raised and lowered, and with it the eccentric-blades or -rods, to vary cut-off and reverse; hence, the slot-link has a curvature formed by an arc struck with the center of the engine-shaft as a center. The swing of the eccentric-straps and -blades around the eccentricis in the cutting-off and reversing adjustments of the link makes the lead of the valve increase, as the cut-off in forward goar is made earlier.

link-hanger is attached on a locomotive or other engine fitted with the Stephenson valve-gear. lint-box (lint'boks), n. That part of a cotton-ink-slot (lingk'slot), n. In a steam-engine, baling press in which the lint (ginned cotton) link-slot (lingk'slot), n. In a steam-engine, the slot or opening in the curved member of a

Stephenson link-motion for a locomotive or other reversing-engine. This member is called the *link*, and in the opening or slot slides the link-block by which the valve is operated as the two eccentrics operate the link itself. See

the two eccentrics operate the link itself. See Stephenson *link-motion.

link-slotter (lingk'slot'er), n. A machine or attachment for slotting or finishing the curved links for steam-engine valve-gears.

link-staff (lingk'staf), n. A slender staff or rod graduated into feet or links, used in surveying: employed both as a visible object to sight to when held vertically over a given point, and also as a rough linear measuring scale for and also as a rough linear measuring-scale for short distances such as offsets from a given line

short distances such as offsets from a given line or point; a flag-staff or flag-pole.

link-vine (lingk'vin), n. In the Bahamas, Vanilla articulata, a tall, leafless climber of the orchid family, growing over trees and shrubs: so called from its stems, the joints of which are smooth, fieshy, and from 8 to 10 inches long.

linkwork, n. 2. A mechanism or device in which motion or power is transmitted by rods and levers, instead of by gearing or by pulleys and belts; a linkage; a link-motion.

link-worming (lingk'wer'ming), n. Naut., the operation of worming rope-cables with about as a protection against autition and the line against a

chain, as a protection against cutting on a rocky bottom. linky (ling'ki), a. $[link^2 + -y^1]$ Link-like;

having the character or appearance of links. See link².

Steering by this . . . we made our way across country, and won forth at last upon the linky, boggy muirland that they call the Figgate Whins. R. L. Stevenson, Catriona, xii. linn², n. Same as *lin⁴.—Black linn, yellow linn, the cucumber-tree, Magnolia acuminata.

Linnæan.

Linnæan.

Linnæan.

Linnæan.

Linnæan.

Linnæan.

Linnæan.

Lindenic, (li-nog'ra-fi), n. [L. linum, flax (see linen), + Gr. $\gamma p d \phi e \iota \nu$, write.] The process of photographing the outlines of a picture on linen or cotton cloth, as a basis for painting it in oil. Jour. Soc. Chem. Industry, VII. 588. linolenic (lin-ō-len'ik), a. [L. linum, flax, + oleum, oil, + -ene + -te.] Noting an acid, a color-less liquid, $C_{18}H_{30}O_{2}$, obtained from various oils, such as linseed and cotton-seed. It has an odor of blubber and combines with six stoms of brownine.

it has an odor of blubber and combines with six atoms of bromine.

Linophryne (lin-ō-fri'nō), n. [NL., < Gr. \(\lambda\)ivor, a net, + \(\phi\)pi\(\mu\)n, a toad.] A genus of fishes of the family \(Ceratiid\varphi\), found in the mid-Atlantic. Linopteris (li-nop' te-ris), n. [NL. (Presl, 1838), (Gr. λίνον, net, + πτέρις, fern.] A genus of fossil ferns with bipinnate fronds, the nus of fossil ferns with bipinnate fronds, the pinnæ oblong and multijugate, and the pinnules subfalcate, obtuse at the summit and cordate at the base, with a reticulate nervation. It was called *Dictyopteris* by Gutbier in 1835, but that name was preoccupied. See *Dictyopteris*, with cut, and **Dictyopteris*, 2.

linotype (li'nō-tip or lin'ō-tip), n. and a. I. n. A machine in which stereotyped lines (of words) are produced, for use in printing. See cut in next column.

cut in next column.

cut in next column.

II. a. Composed with the linotype machine.

linotype (li'nō-tīp or lin'ō-tīp), v. t.; pret. and pp. linotyped, ppr. linotypeing. [linotype, n.]

To set with a linotype machine.

linotyper (lī'nō-tī-pèr or lin'ō-tī-pèr), n. One who uses the linotype machine.

Among the trades in which the workers are exposed to the danger of plumbism are the following: lead miners, painters, potters, calico printers, compositors, pressmen, stereotypers, linotypers, printers.

Buck, Med. Handbook, VI. 325.

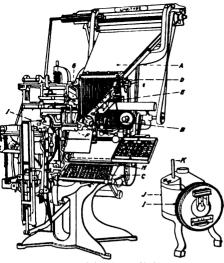
linoxyn (lin-ok'sin), n. [L. linum, fiax, + ox(ygen) + -in².] The name given by Mulder to the amorphous, tough, and elastic material, somewhat resembling india-rubber, which is left as the product of the 'drying' of linseed-oil which has been exposed to the air, from which it absorbs oxygen. He found it to be a chamled to product on the controller cover. which it absorbs oxygen. He found it to be a chemically neutral substance which on analysis gave figures leading to the formula C32H540J1, but later researches have made it doubtful whether it is a single,

inseed-tea (lin'sēd-tē"), n. An infusion of linseed; flaxseed-tea. It contains mucilage, and is therefore demulcent.

the lead of the valve increase, as the cut-off in forward gear is made earlier.

link-saddle (lingk'sad'l), n. The plate or bar bolted to the side of the link and to which the link are trained by the last of the link are trained by the link are trained by the link are trained by the last of the last of the link are trained by the last of th

usitatissimum is packed.



Mergenthaler Linotype Machine.

Mergenthaler Linotype Machine. A, matrix magazine: B, rods from finger-keys to matrix-releasing device; C, keyboard; D, matrix channels; E, traveling-belt to convey matrices to F: F, assembling-stick for matrices; G, rack containing spaces; H, space-releasing bar: I, mold-wheel J, melting-pot; K, pump-plunger for fororcing metal into mold; L, receiving galley for finished lines.

linter', n. 2. Same as lint-doctor.—3. pl. The short fibers of cotton which are removed by a second ginning process, from cotton-seed which has been once ginned. Also called regins.

Linters, or delint, as the short fiber is also called, find extensive application in the arts.

L. L. Lamborn, Cottonseed Products, p. 34.

Linn. An abbreviation (a) of Linnæus; (b) of lintonite (lin'ton-īt), n. [Named after Miss Linnæan.

Linn. An abbreviation (a) of Linnæus; (b) of lintonite (lin'ton-īt), n. [Named after Miss Linnæan.

L. A. Linton, who analyzed it.] A variety of thomsonite, occurring ingreen spherical forms, (see linen), + Gr. γράφειν, write.] The process of derived from the amygdaloid of Grand Marais,

linusic (li-nū'sik), a. Noting an acid, a color-less compound, C₁₇H₂₉(OH)₆COOH, prepared by the oxidation of linoleic acid with potas-sium permanganate. It crystallizes in rhombic plates or needles and melts at 203° C. Also called hexahydroxystearic acid.

Liocetus (lī-ō-sē'tus), n. [Gr. λεῖος, smooth, + κῆτος, a large sea-animal.] A genus of deep-sea fishes of the family Ceratiidæ.

liodermia, leiodermia (li-ō der'mi-ä),n. Glossiness of the skin.

Lioglossina (li'ō-glo-si'nä), n. [NL., ζ Gr. λείος, smooth, + γλώσσα, tongue, + -ina.] A genus of flounders known only from the Gulf of California.

Liognathus (li-og'na-thus), n. [NL., ζ Gr. λείος, smooth, + γνάθος, jaw.] Same as Coccosteus.

costeus.

lion, n. 5. (c) A silver and a gold coin of the Belgian provinces, struck in 1790. The value of the gold lion was about \$6.50.—Essex lion, a call.—Order of the Golden Lion, an order for civil and military merit in Luxemburg: founded in 1858.

lion-fish (li'on-fish), n. A name applied to Pterois lunatus, Scorpæna grandicornis, and other stinging fishes of the family Scorpænidæ, from their mane-like spines.

lion-gate (lī'on-gāt), n. An entrance portal decorated above by a pair of sculptured lions



Lion-Gate at Mycenæ, Greece.

facing each other. The motive appears in early Hellenic or Myceuæan decoration and is especially common in early Phrygian art. The most important example is at Mycenæ in the Peloponnesus.

lionization (li"on-i-zā'shon), n. The act of lionizing or making a 'lion' of some one.

The lionization of the German marines by the Russians at Vladivostock some time ago.

The Forum, Jan.-March, 1904, p. 470.

terized by equivalve, oval, thin shells which are gaping in front and compressed behind and are held together by a hinge with a nymph and projecting process on each side.

Liopleurodon (lī-ō-plö'rō-don), n. [NL., < Gr. λείος, smooth, + πλευρόν, rib, + ὀδούς (ὀδοντ-), a tooth.] Same as Pliosaurus.

a tooth.] Same as Priosaurus.

Liopropoma ($l\bar{1}$ - $\bar{0}$ -prop' $\bar{0}$ -mä), n. [NL., \langle Gr. $\lambda \bar{\epsilon} i o_{\zeta}$, smooth, $+\pi \rho \dot{\rho}$, before (pre-), $+\pi \bar{\rho} \mu a$, lid (operculum).] A genus of Serranoid fishes found only on the coast of Cuba.

Liopsetta ($l\bar{1}$ -op-set'ä), n. [NL., \langle Gr. $\lambda \bar{\epsilon} i o_{\zeta}$, smooth, $+\psi \bar{\eta} \tau \tau a$, flounder.] A genus of flounders found on both sides of the Arctic Pacific.

liopus, leiopus (lī'ō-pus), n. [NL., < Gr. λείος, smooth, + πους, foot.] One who has flat feet. liotheid (lī-oth'ē-id), n. and a. I. n. A member of the mallophagous family Liotheidæ.

II. a. Having the characters of or belonging to the family Liotheidæ.

liotrichan, leiotrichan (lī-ot'ri-kan), a. and . [liotrich-ous + -an.] I. a. Same as liotrich-

II. n. A liotrichous person. See Liotrichi. liotrichian, leiotrichian (li-ō-trik'i-an), a. Same as liotrichous.

lip, n. 6. In zoöl.: (b) In the Blastoidea, one of the distal ends of the radial sinuses. (c) In the Gastropoda, the outer or thickened inner mar-Gastropoda, the outer or thickened inner margin of the aperture of the shell.—12. In metal., the part of a ladle or forehearth over which the metal flows. Phillips and Bauerman, Elements of Metallurgy, p. 673.—Baels's disease of the lip, an infiltration and ulceration of the mucous glands of the lips. Buck, Med. Handbook, I. 722.

lip, v. I. trans. 4. In mach., to flange; turn arm of lip on (a piece of sheet metal).

over a lip on (a piece of sheet-metal).

The oil box covers are *lipped* and hinged, and fitted with prings that keep the lids tightly closed or hold them open

as desired.

Elect. World and Engin., March 28, 1903, p. 533. To lap; touch the edge of (anything) with a slight rippling sound.

We left the dying ebb that faintly lipp'd
The flat red grante.
Tennyson, Audley Court, 11.
The dory heeled until the water lipped the rail.
J. C. Lincoln, Partners of the Tide, xviii.

lipaciduria (lip"as-i-dū'ri-\(\bar{a}\)), n. [NL., \langle Gr. lipogastrism (li-p\(\bar{o}\)-gas'trizm), n. [NL., \langle Gr. $\lambda i\pi o \zeta$, fat, + NL. acidum, acid, + Gr. οὐρον, $\lambda i\pi o \zeta$, fat, + γαστήρ (γαστρ-), stomach, + -ism.] urine.] The elimination of fatty acids in the urine.

lipanin (lip'a-nin), n. [Gr. $\lambda i\pi oc$, fat, + -an + -in².] A mixture of 94 parts of olive-oil and 6 parts of olive acid, used as substitute for codliver oil.

liparid (lip'a-rid), n. and a. I. n. A member of the lepidopterous family Liparidæ.

II. a. Having the characters of or belonging to the family Liparidæ.

liparoid (lip'a-roid), a. [Gr. λιπαρός, fatty, + eldoς, form.] Fatty.

Liparops (lip'a-rops), n. [NL., ζ Gr. λιπαρός, fatty, + ωψ, eye, face.] A genus of fishes belonging to the family Cyclopteridæ; it is found in Kamchatka.

In Namenatka.

liparous (lip'a-rus), a. [Gr. λιπαρός, fatty, +
-ous.] Same as *liparoid.

lipase (li'nās), n. [Gr. λίπος, fat, + -ase.] A
widely distributed ferment occurring in both
the animal and the vegetable world, which
splits fats into fatty acids and glycerin,

is also capable of bringing about the syn-Lipogenys (li-poj'e-nis), n. [NL., \langle Gr. $\lambda \pi \sigma_{i}$, thesis of fats, and is thus reversible in its fat, $+ \gamma \ell \nu \nu_{i}$, under jaw.] A genus of deep-sea thesis of fats, and is thus reversible in its action. The synthetic activity of this ferment was first demonstrated by Kastle and Loevenhart, and Hanriot.

Since the discovery of diastase, in 1814, a large number of enzymes have been recognized, and what is of still greater interest and physiological significance, a large number of them, such as diastase, hipase, trypsin, etc., etc., have been found in both the vegetable and the animal organism, and, for that matter, in nearly every living cell.

Science, May 17, 1901, p. 767.

The Forum, Jan.-March, 1904, p. 470. ganism, and, for that matter, in nearly every living cell. Science, May 17, 1901, p. 787. in the Gulf Stream. veter: so called on account of its tufted tail and neck-ruff.—3. Macacus leoninus of India, which is of a yellowish cast.

Liopistha (lī-ō-pis'thā), n. [NL., ⟨Gr. λείσς, lip-bulb (lip'bulb), n. In phonetics, a rubber smooth, + δπισθε, behind.] A genus of Cretaceous anomalodesmaceous pelecypods characterized by equivalve, oval, thin shells which leave gening in front and compressed behind. Scripture, Exper. Phonetics, p. 398.

ganism, and, for that matter, in nearly every living cell. Science, May 17, 1901, p. 787. in the Gulf Stream. lipography (lī-pog'ra-fi), n. [Gr. λείσς, λιπείν, λιπείν, αἰτος σταλι liposthamia (lī-pō-hē'mi-ā), n. Same as lipæmia. liposthamia (lī-pō-hē'mi-ā), n. Same as lipæmia. liposthamia (lī-pō-hē'mi-ā), n. Same as lipæmia. liposthamia (lī-pō-hē'mi-ā), n. Having the appearance of fat.

Estendador on account of its tufted tail and neck-ruff.—3. Macacus leoninus of India, which is of a yellowish cast. lip-brace (lip'brās), n. In phonetics, a rubber lipohemia (lī-pō-hē'mi-ā), n. Same as lipæmia. lipodi (lip'oid), a. and n. [Gr. λίπος, fat, + eldoς, form.] I. a. Having the appearance of fat.

Estendador on account of its tufted tail in the Gulf Stream. lipography (lī-pog'ra-fi), n. [Gr. λείπεν, λίπεν,
with a recording apparatus: used to teach the lip-pressure proper for a certain articulation. Scripture, Exper. Phonetics, p. 398. lipemia, n. See lipemia. lip-fern, cheilanthes lanosa, a species of the eastern United States which has its segments more or less closely covered with rusty hairs.

lipic (lip'îk), a. [Gr. $\lambda i\pi o_i$, fat, +-ic.] Noting an acid, a colorless compound, probably identical with succinic acid, said to be formed by the oxidation of oleic acid.

lip-key (lip'ke), n. In psychophys., a form of key used in the reaction-experiment, in which an electric circuit is made or broken by a movement of the lips. Amer. Jour. Psychol., XIII.

liplap (lip'lap), n. A half-caste, the off-spring of a native of the Dutch East Indies and a Dutchman.

The question is, therefore, not as to the acclimatisation of the Dutch race, whose numbers apart from the officials and military, are insignificant, but as to that of liplaps, algnos, and mannas, as the Dutch half-castes are variously called.

Academy, Feb. 11, 1898, p. 128.

lipochrin (li'pō-krin), n. [Gr. $\lambda i\pi \sigma_{\varsigma}$, fat, + $\omega \chi \rho \delta_{\varsigma}$, yellow, + $-in^2$] A yellowish-green pigment found in the fat-droplets which occur in the retinal epithelial cells of some of the lower animals: for example, the frog.

lipochrome (lī'pō-krōm), n. [Gr. λίπος, fat, + χρῶμα, color.] A pigment found in fatty tissue, commonly of a yellow or red color. Such products occur widely distributed both in the animal and the vegetable world. The yellow + ism.] Lipostomosis. color of the blood-serum, of the corpora lutea, and of the yoke of birds' eggs, and the reddish pigment of carrots and tomatoes belong to of the walls. Compare *lipogastry. this order. Their composition is for the most lipothymia! (lipothymia! (lipothymia! (lipothymia!), a. Relating to nart unknown.

lipochromic (lī-pō-krō'mik), a. [lipochrome + ic.] Of the nature of a lipochrome.

lipochromogen (li-pō-krō'mō-jen), n. [lipochrome + -gen, -producing.] A substance which gives rise to the formation of a lipochrome.

lipochromoid (lī-pō-krō'moid), n. + -oid.] A pigment of the order of, or resembling, the lipochromes.

J. C. Lincoln, Partners of the Tide, xviii.
 II. intrans. 2. To project in the form of a broad tab or lip.—3. To have an irregularity of the surface caused by overlapping of molds: said of a casting.
 lipacidæmia (lip "as-i-dē'mi-š), n. [NL., < Gr. λίπος, fat, + NL. acidum, acid, + Gr. alμα, blood.] The presence of fatty acids in the blood.

lipogastry (li'pō-gas-tri), n. [Gr. $\lambda i\pi o c$, fat, + $\gamma a \sigma \tau h \rho (\gamma a \sigma \tau \rho^{-})$, stomach, + $-y^3$.] In sponges, the temporary obliteration of the gastral cavity by the contraction of the surrounding walls. See *lipostomy, 2.

See *lipostomy, 2.

In the first place, any sponge, whether of simple or complex form, may under certain conditions contract itself and close up its pores and osculum. In extreme cases even the gastral cavity becomes obliterated. Such changes of form are of course only of temporary duration and are of no morphological or classificatory value. Sooner or later the sponge expands again. . . Nevertheless, sponges in a state of contraction have . . been described . . . as a distinct species, genus or family; while the temporary obliteration of the osculum or gastral cavity has been dignified by the coinage of the terms lipostomy and lipogastry respectively. Lankester, Zoology, II. 4.

lipogenic (li-pō-jen'ik), a. [Gr. λίπος, fat, + -γενης, -producing, + -ic.] Forming or tending to form fat; relating to lipogenesis.

Lipogenyidæ (li'pō-jē-ni'i-dē), n. pl. [NL. < shiper Lipogenys + -idæ.] À family of fishes known liq. A only from a single specimen taken in the Gulf liquor. Stream in the deep sea.

liquation



Lipogenys gillii. (From Bulletin 47, U. S. Nat. Museum.)

fishes of the family Lipogenyidæ, found only

The fat of the nerve-cells. It con- Π . n.

sists chiefly of cholesterol and lecithin. lipolysis (li-pol'i-sis), n. [NL., < Gr. λίπος, fat, + λίσις, dissolution.] The cleavage of fats into fatty acids and glycerin.

Since the bile salts are known to increase lipolysis, the effects of the sodium salts of cholic, glycocholic and taurocholic acids in n/500 solutions were tested on lipolytic hemolysis.

Science, Sept. 27, 1907, p. 413.

lipolytic (lip-ō-lit'ik), a. [Gr. λίπος, fat, + λίου, dissolution, + -ic.] Capable of causing the dissolution, + -ic.] Capable of causing the cleavage of fats into fatty acids and glycerin;

for example, lipase.

lipomatoid (li-pom'a-toid), a. [lipoma(t-) + -oid.] Resembling a lipoma.

lipomorph (li'pō-môrph), n. [Gr. λείπειν, λιπείν, leave out, + μορφή, form.] An organism which characterizes a district by its absence from it. See the extract.

Irom it. See the extract.

In many cases the absence of certain forms of animal life in countries where they might be naturally expected to occur is a marked feature of certain parts of the world's surface. For example, bears (Ursus) and deer (Cervus) are altogether absent from the Æthiopian regions, and cats (Felis) from Australia, though these forms are widely distributed over other lands. It is proposed to designate such forms as "lipomorphs" (Asime, deficie, and 400%) forms) as regards the particular areas in which they are not found.

P. L. Sclater, in Geog. Jour. (R. G. S.), IX. 673.

liporhodin (li-pō-rō'din), n. [Gr. λίπος, fat, + ρόδον, rose, + -in².] A red lipochrome. lipostomism (li-pos'tō-mizm), n. [lipostom-y

lipothymy; syncopal.
lipotropic (li-pō-trop'ik), a. [lipotrop-y + -ic.] Promoting an increase of fat.
lipotropy (li-pot'rō-pi), n. [Gr. λίπος, fat, + -τροπια, ζ τρέπειν, turn.] The increase of fat in the hody.

in the body Lipowitz's alloy. See *alloy.

[lipochrome lipoxanthin (li-pō-zan'thin), n. [Gr. $\lambda i\pi o \varsigma$, of, or resemfat, $+ \xi a \nu \theta \delta \varsigma$, yellow, $+ -in^2$.] A yellow linochrome.

lipperings (lip'er-ingz), n. pl. The mixture of oil, water, and blood that drains from the blubber when cutting in a whale, and the pieces of blubber used to wipe up the deck. See $lipper^2, 1.$

After the solid matter has been disposed of, both the deck lipperings and blubber-room lipperings are usually deposited in barrels or tube and there scalded with hot oil.

Sci. Amer. Sup., March 5, 1904, p. 23552.

lip-speaking (lip'spe'king), n. Speaking to a deaf person, with a somewhat emphasized movement of the lips, in the course of instruction known as lip-reading.

lip-stop (lip'stop), n. In organ-building, same as flue-stop. See stop1, 6.

lip-turner (lip'ter'ner), n. In shoe-manuf., a machine for cutting and turning back a lip on the in-sole of a shoe, to form a shoulder against which the sewing-machine sews the upper and the welt.

lipuria (lī-pū'ri-ā), n. [NL., < Gr. λίπος, fat. + οὐρον, urine.] The elimination of fat in the urine: a pathological event.

lip-worship (lip'wer'ship), n. Insincere worship, coming from the lips and not from the heart.

lip-worshiper (lip'wer'ship-er), n. One who worships with the lips only; an insincere worshiper.

An abbreviation (a) of liquid; (b) of

liquation, n. 4. In mixtures of fluids, a sepa-

	Crit. Temp. °C. °F.		Boiling-Point. °C. °F.		Crit. Pressu Atmospher
Ħ	-234	-389	-246	-411	20
0	-119	-182	181	-295	51
N.	-146	-231	194	-317	85
Air	-140	220	191	-312	89
CO ₂	$+31 \\ 1-121$	+ 88	80	112	77
wigoi	1-12I	186	187	305	50.6

Air —140 —220 —191 —312 89

CO₂ + 31 + 88 — 80 —112 77

Argon—121 —186 —187 —305 50.6

For the liquefaction of gases having only moderately low critical temperatures, freezing mixtures produce sufficient cold. Gases thus liquefied, if allowed to evaporate under low pressure, produce still greater cold, which can be used in the liquefaction of other gases; or, the gas to be liquefied can be compressed, cooled as much as possible, and allowed suddenly to expand. In many cases this sudden expansion will cool the gas sufficiently to produce partial liquefaction and even solidification. By such methods Pictet and Calilletet succeeded in 1877 in liquefying oxygen, nitrogen, and hydrogen. More recently Wroblewski, Dewar, and Olzewski produced these liquids in quantities large enough to permit their critical constants to be studied. In the process later perfected by Linde, Dewar, Hampson, and others, and applied most notably to the liquefaction of air, the gas to be liquefied is compressed to a pressure of from 1,200 to 3,000 pounds per square inch, cooled to the ordinary atmospheric temperature, and then led through a long coil of pipe and allowed to escape through a small orifice. The escaped gas, cooled by expansion, is led back around the coil of pipe, cooling the compressed gas on its way to the orifice. This cooled compressed gas therefore after expansion becomes colder than the gas preceding it, and upon flowing back around the pipe produces still greater cooling of the incoming gas; hence the temperature of the escaped gas will gradually diminish until equilibrium is reached either by gain of heat from the surroundings or by liquefaction of part of the gas. If there is sufficient protection from influx of heat from the outside the liquid will accumulate and can be drawn off, in some machines at the rate of several gallons an hour. If air thus liquefied be exposed to the atmosphere the introgen, having the lowest boiling-point, boils away first, leaving nearly pure liquid oxygen, which boils away first, leavin

methods are necessarily even less efficient.

liquefier, n. Specifically—2. An apparatus for the liquefaction of gases, especially of air. See Hampson's liquid-*air apparatus, and *liquefaction, 1.

liquesce (li-kwes'), v. i.; pret. and pp. liquesced, ppr. liquescing. [L. liquescere, become liquid: see liquescent.] To become liquid; liquery.

liqueur (li-ker'), v. t. To flavor or treat (wine) with a liqueur.

with a liqueur.

liquid. I. a.—Liquid assets or liquid securities, property instantly convertible into cash, as stocks, bonds, or other securities upon which banking institutions will at once advance loans.—Liquid crystal. See *crystal.

II. n.—Crystalline liquid. See *iquid *crystal.—Riasticity of liquids. See *elasticity.—Puming liquid or spirit of Libavius. Same as *libavius.—Grison liquid, a fungicide preparation designed for application (by spraying) to plants in treating them for mildew. One of the recipes for making it calls for 3 pounds of flowers of sulphur, 3 pounds of quicklime, and 6 gallons of water, to be boiled together until reduced to 2 gallons. The yellow solution so obtained is allowed to settle, and the clear part preserved in well-stoppered bottles: one part of the solution is to be diluted with 100 parts of water when required for use.

liquidate, v. t.—Liquidating partner. See *part-

liquidate, v. t.—Liquidating partner. See *part-

ner.
Liquidator of vessels, one of a number of officials belonging to the New York Custom-house.
Liquidogenous (lik-wi-doj'e-nus), a. [L. liquidus, liquid, +-genus, -producing.] Of or pertaining to the liquid phase of matter: opposed to *gasogenous.
Liquidus curre. See *curre.

Liquidus curve. See *curve.

liquiform (lik'wi-fôrm), a. [For *liquidiform, slight projections.

\(\) L. liquidus, liquid, + forma, form. Resembling a liquid.

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another.

liquorous² (lik'èr-us), a. [liquor + -ous.] Liquid; like liquor.

Liquid; like liquor.

lira¹, n.—Lira Dalmata, the lira current at Zara, Cattaro, and throughout Servia and the adjacent regions, worth about one third less than the Venetian.

lira³ (li'ra), n.; pl. liræ (-rā). [L., a ridge, also a furrow. Compare delirium.] One of the grooves or furrows on a shell.

Three out of the four examples examined have a number of fine lirae within the outer lip, a feature not present in the 'Challenger' shell.

Annals and Mag. Nat. Hist., June, 1904, p. 459.

lirate (lī'rāt), a. [NL. *liratus, < L. lira, a furrow: see *lira3.] Bearing liræ; marked by liræ, as a shell.

A very delicate species, vitreous, 10-whorled, delicately spirally lirate; the lirse distant, few, and conspicuously once acutely keeled at the centre of each whorl.

Proc. Zool. Soc. London, 1901, II. 857.

liration (lī-rā'shon), n. [NL. *liratio(n-), < *liratus: see *lirate.] A system or collection of lirse on a shell.

This liration bears small tubercles connected by short ross-ridges with the dentations of the keel.

Annals and Mag. Nat. Hist., June, 1904, p. 459.

lirazza (lē-rāt/zā), n. [It. dial., pejorative of liraz see liral.] A Venetian base silver coin (1762-97), equal to 30 soldi, and worth about 1s. 3d. or 10 gazzettas.

lirellous (li-rel'us), a. [lirella + -ous.] Same

as lirellate.

Liron (el'î'ern), n. A piece of structural iron or steel which has an L-shaped cross-section.

lirone (lē-rō'ne), n. [It., aug. of lira, a lyre: see lira².] The largest size of the viol, having sometimes as many as 24 strings.

sometimes as many as 24 strings. lis², n. 2. A gold piece of Raymond IV., Prince of Orange (1340-93).—3. A silver coin of France in 1655; also, a gold coin of the same period with two angels on the reverse, sup-

period with two angels on the reverse, supporting the shield.

11s3 (lis), n. [Also liss: \langle Ir. lios, OIr. liss, less, W. ll\(\text{igs}\), a hall, palace, court, = Bret. lez, les, also lis, leis, a court; recorded in OCeltic as a place-name, L. Lissus, Gr. A\(\text{isos}\)\(\sigma_0\)\(\sigma_0\), a city in Illyricum, now Lisso or Lje\(\text{igs}\). In Irish antiq., a round inclosure walled with earth, sometimes used as a feet times used as a fort.

[L. lisa (lē'sā), n. [Also liza; < Sp. lisa, liza, a for mullet.] The Spanish (and American Spanish) op-name of several species of mullet.

lisena (li-se'na), n. [NL. lisena, G. lisene,

a mullet found on the Pacific coast of Mexico and Central America.

lispound (lis pound), n. [Also lispund, lispond, lesh pund; < D. and LG. lispund, a contraction of Livsch pund (ML. Livonicum talentum, 'Livonian pound'): see Livonian.] A unit of weight used around the Baltic, varying at different times and places: in Denmark, 17.4 pounds avoirdupois; in Sweden, 18.7 pounds; at Riga, 18.4 pounds. In the Shetland Isles and the Orkneys it was used especially for butter and other provisions, and gradually intreased from 12 pounds avoirdupois to 30 pounds, and even more.

lissactinic (lis-ak-tin'ik), a. See *lysactinic. lissamphibian (lis-am-fib'i-an), n. A member of the Lissamphibia, a division of the Amphibia which contains those species which are covered with a smooth skin.

isse, n. 2. A fine, sheer fabric of either silk or cotton, used for women's neckwear and for

ruching.

lissoneoid (li-son'ē-oid), n. [Appar. based on Gr. λισσός, smooth (†).] The stream-line curve of least resistance.

curve of least resistance.

lissotrichi (li-sot'ri-ki), n. pl. [NL., pl. of lissotrichus, ⟨ Gr. λισσός, smooth, + θρίξ (τριχ-), hair.] In anthrop., races of man with smooth hair; lissotrichous races of man.

lissotrichian (lis-ō-trik'i-an), a. [lissotrichous + -i-an.] Same as lissotrichous.

list4, n. 11. A division or lock of the hair or heard.

beard.

And lissome Vivien . . .

. . letting her left hand
Droop from his mighty shoulder as a leaf,
Made with her right a comb of pearl to part
The lists of such a beard as youth gone out
Had left in ashes.

Tennyam, Vivien, 1.94.

listen, v. t.—To listen in, in telephony, to restore (circuits) after connection with subscribers to a condition for subsequent use.

The removal of the operator's plug end of line, or her "listening in," restores the circuits to their proper condition for subsequent use.

Elect. World and Engin., May 7, 1904, p. 875.

listening (lis'n-ing), n. The act of one who

istens.

istening-cam (lis'n-ing-kam), n. In telephony,
a ridge,
One of listening-key (which see).

istening-key (lis'n-ing-ke), n. In telephony,
a key used by the operator to make the connections necessary to enable him to listen to a subscriber.

a subscriber.

listerine (lis'ter-in), n. [Named from Sir Joseph *Lister*, an English surgeon, the founder of antiseptic surgery.] An antiseptic preparation consisting of a solution of benzoic acid, boric acid, thymol, etc.

acid, boric acid, thymol, etc.

listing-machine (lis'ting-ma-shēn'), n. A computing-machine which prints a list of numerical items, and indicates their sum. Engin. Mag., July, 1904, p. 607.

Listing's law. See *law!

listrium (lis'tri-um), n.; pl. listria (-ξ). [Gr. λίστρων, a little shovel, dim. of λίστρων, a shovel.] A chitinous plate which closes the progressive track of the pedicel opening in some neotrematous brachiopods, posterior to the apex of the ventral valve: especially characteristic of the Discinidæ.

listvanite (list'van-īt), n. [Appar. G. *list-

characteristic of the Discinidæ.

listvanite (list'van-īt), n. [Appar. G. *list-wānit, < Russ. listvenuit, leafy, + -it, E. -ite².]

In petrog., a granular schistose rock, green or yellow, resembling tale-schist, and rich in quartz and dolomite: found in Ural mines.

lit. An abbreviation (b) of liter.

litaneutical (lit-a-nū'ti-kal), a. [Gr. \(\lambda travev-tuse\) for supplication (\(\lambda traveters\) for supplication (\(\lambda traveters\

τικός, for supplication, < λίτανεύειν, supplicate, < λιτανεύεια, litany.] Having the form or charactor of a litany.

litany, n.— Greater litany, in the Rom. Cath. Ch., the Litany of the Saints, as chanted on the feast of St. Mark, April 25.

Lit. B., Litt. B. Abbreviations of the New Latin Litterarum Baccalaureus, Bachelor of Letters or Literature.

litchfieldite (lich'fēld-īt), n. [Litchfield, Maine, + -ite².] In petrog., a name proposed by Bayley (1892) for nephelite-syenite occurring at Litchfield, Maine. It is composed of albite and nephelite, with lepidomelane, and has variable amounts of orthoclase, cancrinite, and sodalite.

amounts of orthoclase, cancrinite, and sodalite.

liter², n.—Mohr liter, the volume of 1,000 grams of distilled water at the temperature of 17.5° C., as weighed with brass weights without correction for displaced air. It really contains, at that temperature, 1,002.8 cubic centimeters, instead of 1,000. Flask graduated according to this measure have been much used by chemists in volumetric analysis, owing to a fancied advantage in having the weight contained equal to a round number, rather than having the volume a round number.

literal. I. a. 6. Affecting or relating to a letter: as, literal errors, literal rhymes.

The manuscript miscellanies of the time of James L and Charles L contain several copies of literal rhymes not very unlike "A, B, C, tumble down D."

Hallivell, Nursery Rhymes, p. 135.

Literal agraphia. See *agraphia.

II. n. 2. In printing, a literal error; that is, a wrongly placed letter; a misprint.

literalistic (lit'e-ral-is'tik), a. [literalist + -ic.] Having the characteristics of a literalist or of literalism.

iterate, n. 3. One who can read and write: opposed to illiterate.

literatesque (lit'e-rā-tesk'), a. [literate + -esque.] Having a literary quality; fit to be

considered literature. [Rare.]

literator, n. 3. One who concerns himself with verbal and textual criticism. [Rare.]

N. E. D.

N. E. D.

literature, n. Specifically.—5. In scientific usage, the body of monographs, original papers, etc., dealing with a particular topic: as, the literature of the scale-insects and mealy bugs; the literature of the reaction experiment.—6. Printed matter of any kind intended for circulation, as the circulars and pamphlets of a political party, of an insurance company, or of a quack advertiser. [Colloq.]

Lith. An abbreviation (a) of Lithuanian; (b) [l. c.] of lithograph and lithography.

litham (le'tami), n. [Tuaregt] A cloth wound twice around the head and face, so as to leave exposed only the eyes and nose: used by the

Tuaregs of the Sahara.

Turregs of the Sahara.

The Tourreg always keeps his face covered with a litham, a sort of mask; he lives in it, he sleeps in it, and when eating or drinking merely pulls it away from the lower part of his face and passes the food or cup up to his mouth from beneath it. The litham was undoubtedly originally intended as a protection against the sun and the scorching winds, and according to Sir Frederick Lugard, especially against the impalpable dust of the Sahara, but the original use of this garment has been so forgotten through the abuse of custom that the Touareg now considers it immodest to show his face even to members of his own family. Jour. Franklin Inst., May, 1904, p. 326.

ithanthracic (lith-an-thras'ik), a. [lithan-thrax (-ac-) + -ic.] Of lithanthrax; noting an extract formed of those portions of coal-tar which are soluble in benzol and ether.

tithatic (li-thā'tik), a. [lithate + -ic.] Pertaining to or consisting of a lithate.

Lithia water, mineral water containing a considerable portion of lithia salts, found in natural springs in the United States. The name is also applied to artificial mineral waters of similar constitution.

ithic¹. I. a.—Lithic age, the stone age. See archeological ages, under age¹.

II. n. A remedy supposed to cause the solution of stone in the bladder or kidney.

ithical (lith'i-kal), a. [lithic1 + -al¹.] In petrog., a term proposed by Fletcher (1895), for the texture of rocks, including the size, shape, and arrangement of the component minerals; textural.

lithify (lith'i-fi), v.; pret. and pp. lithified, ppr. lithifying. [Gr. λίθος, stone, + -fy.] I. trans. To convert into stone: more commonly pet-

Both the sedimentaries and the eruptives undergo a further change, which to a greater or less extent obscures their origin, for the original formations are metamorphosed, that is, recrystallized and lithified; so that the planes of sedimentation are partly or largely obscured and the beds of lacolites, intrusive sheets, coulées, dikes, chimneys, and tuffs have a new structure imposed upon them, and are then known as metamorphic rocks.

Powell, Truth and Error, p. 49.

II. intrans. To become converted into stone.

lithionite (lith'i-o-nīt), n. [Gr. λίθων, dim. of λίθως, stone, + -ite².] In mineral., a lithia mica; lepidolite. Lithionite is used as a prefix before the names of rocks characterized by it: as, lithionite-granite.

ithiophorite (lith-i-of'o-rit), n. [NL. lithium + Gr. -\$\phi opo_0\$, -bearing, + -ite².] An impure hydrated manganese ore related to psilomelane, but peculiar in yielding lithium.

lithite (lith'ît), n. [Gr. $\lambda i \theta o_{\zeta}$, stone, + - ite^2 .] In $zo\ddot{c}l$., a calcareous particle contained in a sac, as an otolith, especially of medusæ. Parker and Haswell, Textbook of Zool., I. p.

lithobiid (li-thō'bi-id), n. and a. I. n. A member of the myriapodous family Lithobiidæ.

II. a. Having the characteristics of or belonging to the family Lithobiidæ.

lithobilic (lith-ō-bil'ik), a. [Gr. λίθος, stone, + L. bilis, bile, + -ic.] Noting an acid, a

colorless compound, $C_{30}H_{58}O_6$, contained, together with lithofellic acid, in oriental bezoars, the gall-stones of an antelope. It forms militholysis (li-thol'i-sis), n. [Gr. λίθος, stone, + λύσις, dissolution.] Same as *lithodialysis. an intense red-violet color with hydrochloric lithometer (li-thom'e-tèr), n. [Gr. λίθος, acid. [Gr. λίθος stone, + μέτρον, measure.] An instrument for lithobolia (lith-ō-bō'li-š), n. [Gr. λίθος stone, + μέτρον, measure.] An instrument for determining the size of a stone in the bladder.

acid.

lithobolia (lith-ō-bō'li-a), n. [Gr. $\lambda\iota\theta\circ\beta\circ\lambda\iota a$, \langle $\lambda\iota\theta\circ\beta\circ\lambda\circ c$, throwing stones, \langle $\lambda\iota\theta\circ c$, stone, + $\beta\delta\lambda\lambda\epsilon\upsilon$, throw.] Stone-throwing, as a superstitious ceremony or traditional custom. This custom was common in ancient Greece, but was especially associated with the Damia and Auxesia at Trozen, in which the women pelted each other with stones. There seems to have been also a lithobolia at the Eleusinia. The custom appears in the Roman festivals of the None Caprotine and Lupercalia. It has been found in Poland and other countries.

lithocarbon (lith-ō-kār'bon), n. [Gr. $\lambda\iota\theta\circ\varsigma$, stone, + E. carbon.] An asphalt-like material which is extracted from a bituminous limestone occurring in Uvalde county, Texas:

stone occurring in Uvalde county, Texas: used in making varnish and in insulating electric conductors.

lithochromography (lith'ō-krō-mog'ra-fi), n. Ilthochromography (lith ο krō mog ra - fi), n.

[Gr. λίθος, stone, + χρῶμα, color, + -γραφια,
⟨γράφειν, write.] Same as chromolithography.

lithochromy (lith ō - krō - mi), n. [Gr. λίθος,
stone, + χρῶμα, color.] Same as chromolithography. Also lithochrome.

lithoclase (lith ō - klāz), n. [Gr. λίθος, stone,
+ κλάσις, breaking.] A fracture in a rock.

See #disclase.

lithoclasty (lith'ō-klas-ti), n. [Gr. $\lambda i\theta o_{5}$, stone, + $\kappa \lambda a \sigma r o_{5}$, broken, $\langle \kappa \lambda \tilde{a} \nu$, break.] The crushing of a stone in the bladder; lithotrity.

lithodesma (lith-ō-des'mä), n.; pl. lithodesmata (-ma-tä). [Gr. λίθος, stone, + δέσμα, a bond.] In certain pelecypod mollusks, a deposit of lime in the form of an accessory shelly piece which serves for the reinforcement of the re silium. Also called ossiculum. W. H. Dall.

lithog. An abbreviation of lithograph or lithog-

ithogenesis (lith-ō-jen'e-sis), n. [Gr. λίθος, stone, + γένεσις, origin.] 1. The production or origin of minerals or rocks; lithogenesy.— 2. In pathol., the formation of concretions in the body.

ithogenetic (lith'ō-jē-net'ik), a. [lithogenesis (-et-) + -ic.] Of or pertaining to lithogenesis. lithografy, lithografer, etc. Amended spellings of lithography, lithographer, etc.

ings of thungraphy, thungrapher, etc.

lithograph, n.—Scraped lithograph, a lithographic impression in which the design is worked out in white on black instead of black on white. The entire stone is first covered with lithographic ink and the lights are scraped or picked out. Singer and Strang, Etching, Engraving, etc., p. 124.

Lithographic slates. See *slate2.

lithol. An abbreviation of lithology. Lithologic individual, an important geological tion in a given district, consisting of one kind of re

lithometra (li-thom'e-trä), n. [NL., < Gr. λίθος, stone, + μήτρα, uterus.] A condition in

which there are more or less extensive calcareous or osseous concretions in the wall of the

here it though it is (lith'ō-nef-rī'tis), n. [NL., < one Gr. λύθος, stone, + νεφρίτας, inflammation of the kidney if oc, caused by the irritation of calculi.

lithonephrotomy (lith 'ō-nef-rot 'ō-mi), m. [Gr. λίθος, stone, + νεφρός, kidney.] In surg., incision into the kidney for the purpose of

removing a stone.

lithopædion, lithopedion (lith-ō-pē'di-on), n.

Same as lithopædium.

lithophany (li-thof'a-ni), n. [G. lithophanie; as lithophane + -y³.] The art of making porcelain transparencies for lamp-shades or rindown by interelic and relicional relicions. windows, by intaglio and relief modeling: invented at the Berlin Royal Porcelain Manu-

factors. See lithophane.

lithophil, lithophile (lith'ō-fil), a. [G. i phil, ⟨Gr. λίθος, stone, + φιλείν, love.]

thoclase (πω + κλάσις, breaking.] A fracture (hopping the property of the pro

ing of a stone in the bladder; lithotrity.

lithocolla (lith-ō-kol'ā), n. [Gr. λίθος, stone, + κόλλα, glue.] A trade-name for a cement used to unite broken pieces of marble or other stone.

lithoculture (lith'ō-kul-tūr), n. [Gr. λίθος, stone, + φωνή, sound.] A surgical instrument which gives forth a plainly audible sound when it touches a calculus in the bladder.

lithoculture (lith'ō-fo-tō-grā-vūr'), n. type of culture in which stone is used as the most important material for making implements.

The Seri Indians of the Gulf of Californias typical of the beginnings of lithoculture.

Amer. Anthropologist, 1902, p. 561.

Mehadama (lith 5 decellar) and the stone etched a second time, and a print is taken as in ordinary lithography. print is taken as in ordinary lithography.

lithophyte, n. 2. In phytogeog., any plant which grows upon the surface of rocks or stones, aerial or submerged, with or without the presence of humus: sometimes opposed to

*chasmophyte (which see).

lithosiderite (lith-ō-sid'e-rīt), n. [Gr. λίθος, stone, + σίδηρος, iron, + -ite².] A meteorite intermediate in character between the stones (aërolites) and the irons (siderites), characterized by nickeliferous iron which forms a cohoracterized by nickeliferous iron which forms a cohoracterized to a cohoracterized by nickeliferous iron which forms a cohoracterized by nickeliferous iron which silicates. silium. Also called ossiculum. W. H. Dall. lithodialysis (lith'ō-dī-al'i-sis), n. [NL., < Gr. λίθος, stone, + διάλνοτς, separation.] The solution or reduction to a pulverulent condition of a biliary or vesical calculus. lithofellic (lith-ō-fel'ik), a. [Gr. λίθος, stone, + L. fel (fell-), gall, + -ic.] Pertaining to gall-stones.—Lithofellic acid, a colorless compound, Cod H. O., contained, together with lithoblic acid, in oriental bezoars, the gall-stones of an antelope. It forms microscopic hexagonal crystals, nelts at 20° C. and gives an intense red-violet color with hydrochloric acid.

lithosis (li-thō'sis), n. [NL., ⟨ Gr. λiθος, stone, +-osis.] Same as pneumonoconiosis. Encyc. Brit., XXXI., Fig. 16, opposite p. 513.
lithosperm (lith'ō-sperm), n. A plant of the genus Lithospermum.
Lithotomy forceps. See *forceps.
lithotype, n. 3. (a) The art of reproducing type-writing print on lithographic stone or aluminium plate. (b) An apparatus or machine that combines these operations. (c) The print so produced.
Lit. Hum. An abbreviation of the Latin Litters Humaniones. humane letters.

Lit. Hum. An abbreviation of the Latin Litters Humaniores, humane letters. lithuresis (lith-ū-rē'sis), n. [NL., ⟨Gr. λίθος, stone, + οὐρησις, urination.] In pathol., the passage of calculi in the urine. lithuric (li-thū'rik), a. [lithuria + -ic.] Pertaining to or affected with lithuris.—Lithuris acid, an organic acid of the composition C₁₅H₁₉O₂N, which has been found in the urine of oxen. lithuresiael (lith'.uwāl). — Same as *littlevale.

Lithographic slates. See *state*.

lithoidite (lith'oi-dīt), n. [lithoid + -ite².] acid, an organic which has been found in the urine of oxen.

In petrog., a rhyolite having a lithoidal ground-lithywale (lith'i-wāl), n. Same as *littlewale.

In petrog., a rhyolite having a lithoidal ground-lithywale (lith'i-wāl), n. Same as *littlewale.

Lit. M. Litt. M. An abbreviation of the Latin Litterarum Magister, Master of Letters

(or Literature).

itmus-milk, in bacteriol., a medium used for detecting acid-producing organisms.

A map whose cartographic units were discriminated solely on the lithologic characters of the so-called 'lithologic individuals' was not entitled to be called a geologic map. It was really a lithologic map.

Science, Feb. 28, 1902, p. 351.

Science of the so-called 'lithologic map. Science, Feb. 28, 1902, p. 351.

Science of the calcaneum; $\langle Gr. \lambda \tau \delta c, Smooth, Plain, +\pi \tau \delta \rho \nu a, heel. \rangle$ A suborder of extinct ungulate mam-

mals from the Miocene and Pleistocene of monoclinic crystals in the dolomite of the Bin-livor, n. 8. Lividity; the mark of a blow. South America of which Macrauchenia is a typical example. The canines are small or wanting, ends of cervicals flattened, femur with a third trochanter, bones of carpus and tarsus not interlocking or alternating. In general build the members of the group resembled horses or llamas. Ameghino, 1889.

Lit-par-lit (16 par-lit of injection or saturation. See *injection.

Litron (1ē-trôn'), n. [F., < litre, liter.] A dry measure formerly used in France, equal to about \$\frac{1}{2}\$ of a liter. C. Hering, Conversion Tables, p. 55. South America of which Macrauchenia is a

litteratrice (lit-e-ra-trēs'), n. [F. littératrice, liv'nes), n. [live², a., +-ness.] The (NL. *litteratrix, fem. of litterator: see literator.] A woman engaged in literary work; a

The 'liveness' of the New Scholarship. N. E. D.

woman whose profession is literature.

little-good (lit')-gud), n. 1. See little-gude.—

2. The sun-spurge or wart-spurge, Euphorbia 2. The sun-Helioscopia.

little-pach (lit'l-pāch), n. See *peach¹.
littlewale (lit'l-wāl), n. The gromwell, Lithospermum officinale. Also lithywale.
Littoral benthos. See *benthos.—Littoral race. See *Atlanto Mediterranean.

Lituaria (lit-u.a'ri-a), n. [NL. (Valenciennes, 1850), < L. lituus, a crooked staff, a curved trumpet: see lituus.] The typical genus of the family Lituaridæ

the family Lituaridæ.

Lituaridæ (lit-ū-ā'ri-dē), n. pl. [NL., < Lituaridæ (lit-ū-ā'ri-dē), n. pl. [NL., < Lituaria + -idæ.] A family of sea-pens with short spicules. It contains the genera Lituaria, Veretillum, Policella, and Clavella, found mostly in the Atlantic and Indian Oceans.

lituitoid (li-tū'it-oid), a. [Lituites + -oid.] Resembling or related to the genus Lituites.

Liturg. An abbreviation of liturgics. liturgican (lit-èr-iish'an). n. [liturgic +

liturg. An abbreviation of liturgics.

liturgician (lit-er-jish'an), n. [liturgic +
-ian.] A student of liturgies or liturgics.

liturgiological (li-ter'ji-ō-loj'i-kal), a. [liturgiology + -ical.] Of or pertaining to liturgiology.

ology

ology.

liturgistical (lit-er-jis'ti-kal), a. [liturgist + -ic-al.] Of or pertaining to liturgists.

liturgize (lit'er-jiz), v. i.; pret. and pp. liturgized, ppr. liturgizing. [liturg-y + -ize.] To perform a liturgical act; celebrate liturgically. [Rare.] N. E. D.

Litvak (lit'väk), n. [Yiddish, < Pol. Litwak, a Lithuanian.] A name given to Jews of the Lithuanian provinces, by their coreligionists of the Polish government. The former, in turn, call the latter Pollacks or Pollackim. See *Pollack. There is a marked difference in the Yiddish jargon as well as in the manner.

the Yiddish jargon as well as in the mannerisms of the two classes.

IV A simplified spelling of live.

IV. An abbreviation (a) of the French livre, book; (b) of the French livre, pound (weight or coin).

live¹, v. i.—To live with hounds, in hunting, to keep up with the hounds; live the pace.

The check . . . was most welcome to the contingent who still lived with hounds.

St. James's Gazette, Nov. 15, 1898. N. E. D.

live², a. 7. In mach., having motion, as distinguished from fixed or stationary: as, a live

Of course, this construction carried with it the live rear axle, a large majority of the cars shown being equipped with these, which has led to a close fight for supremacy between the spur and bevel differential gear, the spur, however, being still in the lead.

Sci. Amer., Feb. 7, 1903, p. 91.

8. In elect., connected directly or indirectly with a source of electric power, whether carrying current or not: said of a circuit.—Live load, a moving load; a load which is not fixed in position, but may move: as, the load on a bridge when a vehicle passes over it, as distinguished from the load due to the weight of the bridge itself, called the dead load.

It is designed that these stiffening trusses shall carry their own weight, neither more or less—the live load, that is the elevated cars, trolley cars, etc., and the load of the floor system, being carried by the main cables.

Sci. Amer., Jan. 16, 1904, p. 38.

Live primer (naut.), a loaded primer; one that has been filled and not used or discharged.—Live rock. See *rock!.—Live roller, a roller which moves along a path or track as it turns, instead of merely rotating on a spindle: used for roller-bearings, etc.

nenthal, Switzerland.

Perez has proposed a classification of characters, based solely on an objective phenomenon,—viz., the movements, their rapidity and energy. He distinguishes, in the first place, the lively the slow, and the eager; further, as mixed types, the lively-ardent (vis-ardents), the slow-ardent, and the deliberate (ponders).

Ribot (trans.), Psychol. of Emotions, p. 384.

about \$ 01 a liter. 0. 2000.

Tables, p. 55.

Litt. An abbreviation of the French littérateur, a literary man.

litter, n. 8. In forestry, the rubbish of dead leaves and twigs scattered upon the floor of leaves and twigs scattered upon the floor of up a bit after dinner.

Litter, n. 8. In forestry, the rubbish of dead liven, v. II. intrans. To become lively or more lively; generally with up: as, he livened up a bit after dinner.

quality of being alive; energetic; alert.

The 'liveness' of the New Scholarship. N. E. D.
Saturday Rev., March 22, 1890, p. 857.

live-oak, n.—Cafion live-oak, Quercus chrysolepis, an evergreen oak of the Pacific coast, which ranges from southern Oregon to Lower California, New Mexico, Arizona, and Sonora, but attains its maximum development in central California, both in the Coast Ranges and the Sierras. It is a very valuable tree, its wood being extensively used in the manufacture of agricultural implements and wagons. The under surface of the leaves is fulvous with a thick tomentum of stellate hairs. Also called golden oak, maul-oak, and Valparaiso oak.

liver?, n. 3. Temper, or irritation, as a result of a disorder of the liver. [Slang.]

The Colonel... carries a power av liver undher his

The Colonel . . . carries a power av liver undher his right arrum whin the days are warm an the nights chill. . . The he set so. 'I'm all liver to-day,' sez he; an' wid that he ordhers me ten days.

R. Kipling, The God from the Machine, in Soldiers [Three, p. 11.

Aberrant duct of the liver. See *aberrant.—Brimstone liver, a condition observed in certain cases of congenital syphilis in which the liver is enlarged and is of a deep-yellow color.—Gin-drinkers' liver, cirrhosis of the liver.—Iced liver. See *kica-I.liver loaf. See *kica/1.—Livers of antimony. See *kiho-antimonita.—Nutmeg liver, a liver which on section presents a mottled appearance, the result of cirrhosis.—Sago liver, a liver which is the seat of amyloid degeneration, the changed acini resembling boiled ago.—Wandering liver. Same as floating liver.

liver-berry (liv'ér-ber'i), n. Any plant of the genus Streptopus. See Streptopus.

liver-cylinder (liv'ér-sil'in-dér), n. In embryol., one of the originally solid cords of cells proliferated from the walls of the liver diverticulum in the embryos of higher vertebrates.

ticulum in the embryos of higher vertebrates. ticulum in the embryos of higher vertebrates.

liver-fluke, n.—Asiatio liver-fluke, Opisthorchis I. J.; pl
sinensis (Cobbold, 1875), a trematoid worm 10 to 20 millimeters long, found in the liver, spleen, and intestine of
man and of cats, in Asia, and producing a serious incurable disease known as opisthorchiaris.

liverish (liv'er-ish), a. [liver² + -ish¹.] 1. Latin; (
Like liver in consistency or color.—2. Having

of a disordered liver: bilious.

Ages.

symptoms of a disordered liver; bilious. [Colloq.] Hence—3. Bad-tempered; irritable, as if having a disordered liver. [Colloq.] liver-lily (liv'er-lil'i), n. See *lily.

liver-pancreas (liv'er-pan'krē-as), n. A hepatopancreas.

liverpool (liv'er-pöl), n. [Named in reference to the 'Liverpool Grand National' steepleto the 'Liverpool Grand National' steeple-chase, run at Aintree near Liverpool, since 1839.] In steeple-chasing, a jump constructed (according to the rules of the National Steeple-chase and Hunt Association) of a ditch five feet wide and two feet deep, guarded on the taking-off side by a single rail, and having on the landing side a fence of not less than four feet and six inches in perpendicular height.

Liverpudlian (liv-er-pud'li-an), a. and n. [Liver(pool) + puddle (humorously substituted for pool in allusion to the city's muddy waters) -ian.] I. a. Of or pertaining to Liverpool.

II. n. An inhabitant of Liverpool.

liver-rock (liv'er-rok), n. Homogeneous sandstone devoid of planes of stratification. Scotch.]

liver-shark (liv'er-shark), n. Same as bask-

ing-shark.
liver-starch (liv'er-stärch), n. Same as glyco-

liverwort-lettuce (liv'er-wert-let'is), n. See *lettuce.

livery2, n.—Court of Wards and Liveries.

livyere (liv'yer), n. [Also liveyere; lit., one of those who 'live here.'] In Labrador, and hence in Newfoundland and elsewhere, a native or a permanent resident of that country: a term universally used between themselves and others. [Local.]

Even tea and molasses, usually found amongst the "livyeres" (live-heres) of the coast, were lacking.

Dillon Wallace, The Long Labrador Trail, xxiil.

liza, n. See *lisa.

lizard, n.—Bearded lizard. See *jew-lizard.—Bow-line-lizard (naut.), a short pendant with a thimble spliced in each end: a part of the bowline-bridle on the leeches of square sails.—Buntline-lizard, a piece of rope having two legs, with thimbles spliced into the ends, through which the buntlines reeve.—Greaved lizard, an American lizard of the family Teidag, a group characterized by the absence of a bony roof to the temporal fosses, and by the shields of the head being completely free from the underlying bones; while there are no bony plates on the body.

The greaved lizards comprise over one hundred species, arranged in thirty-five genera.

R. Lydekker, Nat. Hist., p. 168.

R. Lydekker, Nat. Hist., p. 158.

Horned lizard, a book-name for the horned toad, coined with the idea of correcting the wrong impression that might be conveyed by the commonly used name.—Rnobnosed lizard, Lyriocephalus sculatus, a Ceylonese species.—Pine-tree lizard, Sceloporus undulatus: more commonly known as fence-tizard (which see).—Ringnecked lizard, Crotaphytus collaris, a common and beautiful species of the southwestern United States, which has a conspicuous black mark just above the front lega.—Sail-tailed lizard, Lophurus amboinensis, a large species from Java, Celebes, and the Moluccas, having a high crest on the front half of the tail.—Scale-footed lizard, any one of the family Pygopides in which the fore limbs are wanting and the hind legs are represented externally by rounded, scaled flaps.—Spiny lizard, Moloch horridus, a curious little Australian species. Also called mountain devil.—Starred lizard. (a) Agama stellio, of southeastern Europe and northern Africa. Also known as the rough-tailed lizard. (b) The thorn-tailed lizard, Uromastix acanthinurus.

Uromatic acanthinurus.

lizard-canary (liz'ārd-ka-nā'ri), n. A breed of canary-birds having the top of the head marked with a well-defined cap of clear gray or yellow. The body feathers have dark centers, and are almost black at the tips; they are edged with the color of the cap and their overlapping gives the bird a spangled appearance.

lizard-catcher (liz'ard-kach'er), n. One of the larger American cuckoos, Saurothera dominicensis, found in Hayti: a near relative of the rain-bird, of Cuba, S. vetula.

J.; pl. L. JJ. An abbreviation of Lord

I. L. An abbreviation of limiting limen.

LL., L. L., L. Lat. Abbreviations (a) of Late

Latin; (b) of Law Latin; (c) of Low Latin.

An abbreviation of Lady Literate in Arts. See the extract.

The St. Andrews diploma of L. L. A.—which means 'lady literate in arts'!—has been given this year on examination to 101 candidates. Science, Aug. 9, 1904, p. 256.

llama-twill (lä'mä-twil), n. A three-harness twill. Also called drilling-, regatta-, jean-, jeanette- (etc.) twill.

Llanberis (thlan-ber'is), n. [W., a local name.]
In geol., the lowest sedimentary division of
the Lower Cambrian in Wales. It rests on volcanie rocks.

llanchama (lyän-chä'mä), n. [Native name.]
On the upper waters of the Marañon river in On the upper waters of the Marañon river in Peru, Couratari Tauari, a forest-tree belonging to the family Lecythidacee, widely spread in tropical South America. It yields an excellent bast-fiber, and the inner bark is used by the Indians for blankets, sleeping-mats, and clothing, after having been prepared by soaking, washing, and pounding, somewhat in the same manner as taps is prepared from the bark of the paper-mulberry by the Polynesians. Articles of clothing and ornament made of Ilanchama bark exhibited at the World's Columbian Exhibition, are now in the collection of the United States National Museum. Also called tahuari and tauari.

Llanvirn (thlan-vērn'), n. [W., a local name.] In geol., a term introduced by Hicks to include certain Lower Siluric strata in Wales, which comprise the upper part of the Arenig and the lower part of the Llandeilo, about 2,000 feet in all feet in all.

An abbreviation of the Latin libræ. Llb. pounds.

would.—Live roller, a roller which moves along a path or track as it turns, instead of merely rotating on a spindle: livery-fine (liv'er-i-fin), n. The fine paid on used for roller-bearings, etc.
live-car (līv'kär), n. Same as live-box.
live-trap (līv'trap), n. Same as live-box, 2. live-trap (līv'trap), n. Same as live-box, 2. live-trap (līv'trap), n. A wage on which liveingite (liv'ing-it), n. [Named after G. living-wage (liv'ing-wāj), n. A wage on which liveingite, cliv'ing-it), n. [Named after G. living, a. and n. A simplified spelling of live-liven.

D. Liveing, an English chemist.] A lead sulpharsenite, Pb4As6S13, which occurs in long.

An abbreviation of the Latin Legum LL. M

Magister, Master of Laws.

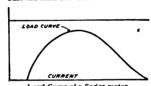
Lloyd's numbers. Same as *Lloyd's numbers used in determining the scentilings of all parts of a merchant ship of any given size and type according to Lloyd's rules (see *Lloyd's rules). The first, transverse, or framing numeral is the number obtained by adding together the depth, half-breadth, and half-girth of the vessel measured in feet; by entering the tables in the rules with this number, the sizes of all transverse parts such as frames, floors, and bulkheads may be found. The second, longitudinal, or plating numeral is the product of the first numeral by the length of the vessel in feet; this number is used in a similar manner to determine the sizes of longitudinal parts such as outside plating, keel, keelsons, etc. Also called Lloyd's Register containing detailed rules and regulations for the building and classification of merchant vessels. In this book the sizes of all parts of the various types of vessels are specified in detail and requirements as to the qualities of material used and methods of inspection and classification are given. Separate sets of rules are published for iron vessels, for steel vessels, for wooden vessels, and for yachts.

[Lluchu (1y8'ch8), n. [Aymars.] See *chullu.

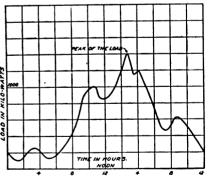
lluchu (lyð'chö), n. [Aymará.] See *chullu. L. M. An abbreviation (a) of Licentiate in Medicine; (b) of Licentiate in Midwifery; (c) [cap.] of long meter.

load2, n. 8. In elect., the output of a generaload², n. 8. In elect., the output of a generator, motor, or power-station. The load of a direct-current generator depends upon the ohmic resistance of the receiving circuit and is measured in watta, kilowatta, horse-power, or any convenient unit of activity or power. If the electromotive force of the generator is E and the current in the line is I, the product El gives the load in watta. If there be any source of counter-electromotive force in the circuit, the electromotive force used in overcoming resistance, E, is less than E and the load is E I. In the case of a direct-current motor the load, w, or useful output, is given by the equation $\mathbf{w} = 2\pi \mathbf{n} \mathbf{T}.$

$$\mathbf{w} = 2\pi nT$$



where T is the effective torque and n is the speed of the motor. The load of such a motor varies with the current supplied to it and is expressed by means of a load curve. In the case of a series-motor on a constant-potential circuit the load curve has the form shown in Fig. 1. It rises to a maximum for a certain value of the current and then falls gradually to zero as the current is further increased. Such a curve is sloss applied to any curve indicating the load of a machine, as a function of its speed, electromotive force, field excitation, or of any factor upon which in operation it may depend. In the case of an alternating-current machine, as a generator or transformer, the energy consumed in the receiving circuit, which measures the load of the machine, depends on the impedance of the circuit, the difference of phase between the inductive load of a circuit having inductance as well as resistance and the non-inductive load of a circuit whose impedance is solely that due to resistance. The load of a power-station or lighting-station, which varies with the time of day, is likewise represented by a load curve. The maximum of this curve, which indicates the time when the demand for power is greatest, is called the peak of the load. The area inclosed by the curve affords a measure of the total energy supplied from the station.



Load Curve of a Power-station.

Curve of loads. See *curves of ship calculations.

— Dead load. (a) A load which stays in the position in which it is placed; a stationary load; a fixed load. (b) In a bridge or other structure, the fixed weight of the structure due to the material of which it is made, and which is not removable, or affected by movable weights on the floor or roof. (c) In railway service, the weight of cars, trucks, engine, and tender, which must be hauled in order to carry the paying load of freight or passengers.—Inductive load, in elect., load due to the inductance in the receiving circuit of a generator. See *load?, 8.—Inductive load, in elect., load due to de a generating station which is used for the supply of electric lamps.—Load characteristic, in elect., a curve showing the power output or load of an alternating-current machine, generator, or motor, as a function of the current. Eco *load2, 8.—Load curve. See *curve and *load2, 8.—Load-diagram of a station, a

curve which represents the output of a station for a given time, say for the twenty-four hours of the day. Houston, Elect. Dict.—Load factor. See *factor.—Load of a dynamo.—Motor load, that portion of the load of an electric generating station which is used in operating motors.—Non-inductive load, in elect., load due to the ohmic resistance of the receiving circuit of a generator. See *load2, 8.—Paying load, in elect., load due to the ohmic resistance of the receiving circuit of a generator. See *load2, 8.—Paying load, in elect., load due to the ohmic resistance of the receiving circuit of a generator. See *load2, 8.—Paying load, in elect., load due to the ohmic resistance of the receiving circuit of a generator. See *load2, 8.—Paying load, in elect., load due to the weight of freight or passengers which is productive of income. See dead *load (c).—Peak load. See *peak-load.—Rolling load, a weight on a bridge or other structure borne upon the wheels of a train or wagon which passes over it. Also called the moriony load.—Tidal load, the pressure, weight, or load imposed on any portion of the earth's crust by the inflow of an oceanic tidal wave; also the increase of pressure, either upward or downward, due to the tidal stress produced by the action of the sun and mono on the rotating crust of the earth.—Top load, in lumbering, a load of logs piled more than one tier high, as distinguished from a *bunk-load.

10ad2, v. t. S. To add to (the net amount of the premium fixed as the actual cost of issuing a policy of insurance) such an amount as will compare loan-word.

policy of insurance) such an amount as will cover the office expense of carrying the policy. loaded2, p. a. 3. Filled with extraneous sub-

stances, especially for the purpose of fraudulently increasing the weight.

To compare the difference between a pure and loaded
sponge, take a 2 ounce sponge of each grade, wetting
them both up, and it will be found that the pure article
will measure about nineteen inches in circumference, or
thereabout. The loaded article in comparison will only
measure about sixteen inches in circumference and less.

Sci. Amer. Sup., Feb. 14, 1903, p. 22670.

4. Coated or furred: noting a condition of
the tongue.—Loaded line. See *loading. 7.—

the tongue.—Loaded line.
Loaded nucleus. See *nucleus. See *loading, 7.-

loader, n.—Top loader, in lumbering, that member of a loading-crew who stands on the top of a load and places

load-factor (lod'fak'tor), n. The ratio of the average to the maximum demand for power from an engine, motor, or power-plant. See

The load-factor of most public hydraulic power supplies a considerably under 30 per cent.

Encyc. Brit., XXXI. 894.

load-governor (lod'guv'er-nor), n. A gov-ernor which operates when the load on the engine changes: it does not keep the speed of

the engine very uniform.

loading, n. 6. The process of filling silk with metallic compounds, for which it has a great attraction when in solution, in order to increase its weight.—7. In elect., a method invented by M. J. Pupin, of reducing the attenuation of telephonic currents in underground cables and long-distance lines (and therefore improving the operation). It consists in inserting into the telephone-line at certain definite intervals self-induction coils, which neutralize the deleterious effect of the electrostatic capacity of the line.—8.

The exorbitant profit exacted from workmen under the truck system (which see, under truck1). [Trade-union slang.]

Notwithstanding a nominal uniformity of rate, both labor, cost and real wages will vary according to the extent of the truck business in each firm, the economy and ability with which this subsidiary store-keeping is managed, and the profit or "loading" which each employer chooses to exact, the latter amounting, in effect, to a fraud upon the workman.

Webb, Industrial Democracy, I. 318.

loading-berth (lo'ding-berth), n. Naut., a wharf or other place where a vessel takes in her cargo; a place convenient for a vessel to ship her freight.

ship her freight.
loading-chain (lō'ding-chān), n. In lumbering, a long chain used in loading or piling logs
with horses. Also called decking-chain.
loading-jack (lō'ding-jak), n. A platformed
framework upon which logs are hoisted from
the water for loading upon cars.
load-panel (lōd'pan'el), n. In elect., the panel
of a central-station switchboard provided with
apparatus for indicating the total stationload. Houston. Elect. Dict. load. Houston, Elect. Dict.

load-spring (lod'spring), n. A spring on an engine-governor by compressing which a greater load can be put on the governor, thus changing the speed at which it allows the engine to run.

the engine to run.

loaf1, n.—Chicken-loaf, chicken prepared somewhat like veal-loaf, but without ham, and with slices of hardboiled egg in the bottom of the mold, so that they appear imbedded in the loaf when the mold is taken off.—Cottage loaf. See *cottage.—Liver-loaf, a preparation somewhat like a patte de foie gras, but with flour panada and butter mixed in it: served cold, in slices.—Mushroom-loaf, a loaf of bread hollowed out and filled with a preparation of mushrooms, with seasoning.—Oyster-loaf, an article of food made like mushroom-loaf with oysters in place of the mushrooms.—Veal-loaf, minced yeal with ham and various spices, made into the form of a loaf and baked: eaten sliced and cold.

A casting

loaming (lö'ming), n. In mining, a method of prospecting for gold-veins the outcrop of which is covered and concealed, by washing numerous samples of earth and thus tracing the gold to its source. [Australia.]

loam-mill (lom'mil), n. A mixing and pulverizing mill used to mix loam for foundry

Loan for use. Same as commodats.—Maritime loan, a loan of money upon the security of a vessel or its contents. The contract provides that if the security is unavoidably lost the loss shall fall upon the lender, unless a part is saved equaling the value of the loan. Such a loan is exempt from usury laws.

loan-form (lon'form), n. In philol., a form that is borrowed from another language. Compare loan-word.

Wechkawo selijil (obviative) is a Passamaquoddy losn-form; in Passamaquoddy wechkoyalijil. Amer. Anthropologist, Jan.-March, 1902, p. 81.

loan-god (lon'god), n. An alien god adopted in the worship of a particular tribe or people.

The reply to me takes the form of ignoring, or disabling ne evidence, or of asserting that these superior beings re 'loan-gods,' borrowed by savages from Europeans or slamites.

A. Lang, Magic and Religion, ii.

loan-myth (lon'mith), n. An alien myth adopted by a people.

Their mythologies . . . resembled each other in some points . . . but the inference that many Greek myths are "loan-myths," as certain Homeric words are "loan-words," from Phoenicia, must not be too hastly drawn. A. Lang, Myth, Ritual, and Religion, I. 322, note

loathsum, a. A simplified spelling of loath-

lob1, n.- Dealer in lobs, in cricket, an underhand

lob¹, v. t.
 lob¹, v. t.
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Lobachevskian (lo-ba-chef'ske-an), a. Per-Nicolai Ivanovich Lobachevski (1793–1856).— Lobachevskian geometry, space. See *geometry,

lobal (lo'bal), a. [lobe + -al1.] Having lobes; lobed: said of wheels or cams.

Noting an acid, a colorless compound, C₁₇H₁₆O₅, contained in the lichen Lobaria adusta. It forms warty aggregates.

lobbyism (lob'i-izm), n. The practices of lobbyist; the system of lobbying. [U. S.] The practices of a

lobbyism (lob'i-izm), n. The practices of a lobbyism (lob'i-izm), n. The practices of a lobbyism (lob'i-izm), n. The practices of a lobbyist; the system of lobbying. [U. S.] tobe, n. (e) In the septate cephalopods like Nautius and the ammonites, any division of the septal suture which makes a convex curve toward the apex i-contrasted with saddle, which is a curvature toward the apex i-contrasted with saddle, which is a curvature toward the apex i-contrasted with saddle, which is a curvature toward the apex i-contrasted with saddle, which is a curvature toward the apex i-contrasted with saddle, one of the divisions of the glabella; a glabellar lobe. (g) In geol., a projection from a glacler, it like a peninsula: especially used of the continental icesheet of the glacial epoch. See *cole.—Adipose lobe. See *adipose.—Antennal lobe, in entom., one of two hemispherical lobes forming a part of the brain. They are connected with a medullary mass and also in part attached to the optic ganglia. Also called offectory lobe, a lobe of the medulla oblongata of the electric apparatus.—Esophageal lobes, the tritocerebrum of an insect's brain; two lobes situated far apart in front of the mouth and connected by a bundle of fibers passing behind the esophagus. From them the labrum and viscera are innervated.—External lobe, in the ammonoid cephalopoda, the sutural lobe formed on the outer or ventral side of the septum and divided by the mesal plane—lobes, in lamellibrancha, the labial palpa.—Palpebral lobes, in lamellibrancha, the labial palpa.—Palpebral lobes, in the trilobites, that portion of the crandium which projects into the ocular curve of the free cheek; usually, the depressed curved area behind and within the crest of the eye. In primitive Cambrian types (Pardoxides) it is long and crescentic; in secondary derived types (Forniteus and Phacops) it is short and semicircular; in certain highly specialized types (Encrimerus and Acidacyis) it is elevated to form the inner side of a particular plates placed on either side of

lobe-angle (lōb'ang'gl), n. The angle at the Lobulus appendicularis. Same as *lobus floccenter of a shaft occupied by a cam or by a
culi.

lobe on a wheel attached to the shaft; the
lobus, n.—Lobi inferiores, small lobes or diverticula
angle through which the shaft turns while the
in the brain of flahes, which arise from the floor of the
lochopyra (lō-kō-pī'rā), n. [NL., < Gr. λόχος,

cam or lobe is acting.

lobelacrin (lō-be-lak'rin), n. [Lobel(ia) + acr(id) + -in².] Said to be the acrid lobelicacid salt of the alkaloid lobeline, contained in

Lobelia inflata.

Lobelia, n.— Bladder-pod lobelia, the official lobe-lia, Rapuntium infatum.—Blue lobelia, Rapuntium siphiliticum. Also called great lobelia and blue cardi-nat-flower.— California lobelia, Bolelia pulchella, a low-spreading annual plant of the Sacramento Valley, Nevada, and Oregon, closely related to Rapuntium. It has intensely azure-blue flowers with a large whitish or vellow center.

lobelianin (lo-be'li-a-nin), n. [Lobelia + -an +-in²] A volatile oil contained in commercial lobelia from Indian tobacco, Lobelia in-

flata. It is crystalline and melts at 71° C. lobelic (lō-bē'lik), a. [Lobelia + -ic.] Pertaining to lobeline.—Lobelic acid, a colorless compound, present in combination with lobeline in Indian tobacco, Lobelia inflata. It forms non-volatile acicular crystals.

Lobites (lō-bi'tēz), n. [NL., ⟨Gr. λοβός, a lobe, + λίθος, a rock.] A genus of ammonoid cephalopods from the Alpine Trias, constituting the family Lobitidæ. It is an isolated group with phylogerorite construction of the living-chamber like the Anarcestidæ and sutures like the Prolecanitidæ; with entire saddles, but bifid lateral lobes in the young.

entire saddles, but bind lateral lobes in the young.

loblolly-wood (lob'lol-i-wid), n. See *guara³.

lobola (lō'bō-lā), n. [Zulu¹] A present, usually of cattle, given by the bridegroom to the father of the bride, as is customary among the Zulus and other tribes of South Africa; also, the custom itself. Rep. Brit. Ass'n Advancement of Sci., 1900, p. 905.

lobous (lō'bus), a. Same as lobose.

lobscouser (lob'skou-sèr), n. One who eats

lobscouse; a sailor.
lobster¹, n. 6. Adull fellow, who is easily imposed upon; an irritating blockhead; a foolish bore; a chump: a vague term for contempt. [Slang.]—Unboiled lobster, in Rugland, a policeman, so called from his blue coat: in distinction from a boiled lobster, or red-coated British soldier. See def. 5. [Slang.] lobster² (lob'ster), n. [lob1, v., + -ster; in humorous allusion to lobster¹, n., 5 or 6.] In cricket, a bowler of lobs or underhand balls. See lob1, 8.

lobster-basket (lob'ster-bas'ket), n. A bas-

ket-trap for catching lobsters.

lobster-boat (lob'ster-bot), n. A boat used in lobster-fishing.

The lobster boats may be conveniently divided into two classes; first, the smaller boats, with or without sails, . . . used by the fishermen in tending their pots, and, secondly, the smacks acting as carriers to the different markets.

Fisheries of the U. S., Sec. 5, II. 669.

lobster-caterpillar (lob'ster-kat'er-pil-är), n. The larva of the lobster-moth.

lobster-flower (lob'ster-flou'er), Christmas flower, or flor de Pascua, of Mexico and Central America, Poinsettia pulcherrima: so called on account of its conspicuous bright

foral bracts. See Poinsettia, 2.

lobsterling (lob'ster-ling), n. [lobster + -ling¹.] A young, undeveloped lobster at about the fifth molt, at which time it more nearly resembles the adult in shape and habits

than at earlier stages.

After one failure 5,000 larvæ were successfully hatched; but of these, despite every care, very few attained the "lobsterling" stage. Nature, Jan. 12, 1905, p. 255.

lobster-net (lob'ster-net), n. 1. A hoop-net for catching lobsters.—2. A lobster-pot of netting supported upon a framework of hoops.

lobster-toad (lob'ster-tod), n. A species of crab.

lobule, n. 2. A terminal bronchus, with the air-cells, vessels, and nerves related to it.—3. air-cells, vessels, and nerves related to it.—3. In bot., same as *disculus.—Hippocampal lobule. See *lobus pyriformis.—Petrosal lobule, the flocculus appendage of the cerebellum; the flocculus. Trans. Linnean Soc. London, Zool., Feb., 1903, p. 333.

| Iobulet, | Iobulette (lob'ū-let, lob-ū-let'), n. [lobule + dim. -et¹.] An ultimate bronchial twig, with the air-cells in relation with it. Buck, Med. Handbook, V. 580.

| Iobulization (lob'ū-li-zā'shon), n. [lobule + -ize + -ation.] Same as lobulation.

lobulose (lob'ū-los), a. [lobule + -ose.] Having lobules.

lobulous (lob'ū-lus), a. [lobule + -ous.] Same as *lobulose.

Obus, n.— Lobi inferiores, small lobes or diverticula in the brain of fishes, which arise from the floor of the mesencephalon and lie just behind the infundibulum.

In fishes the so-called lobi inferiores appear behind the infundibulum.

Buck, Medical Handbook, II., 271.

In fishes the so-called lobi inferiores appear behind the intudibulum.

Lobus antious, the anterior azygous lobe of the cerebellum. Trans. Linnean Soc. London, Zool., Jan., 1899, p. 363.

— Lobus floculi, a lateral appendage of the cerebellum in mammals supposed to correspond with the floculus in the human brain. Also known as lobidus appendicularis. Trans. Linnean Soc. London, Zool., Jan., 1899, p. 362.

— Lobus posticus, the posterior azygous lobe of the cerebellum. Trans. Linnean Soc. London, Zool., Jan., 1899, p. 365.

— Lobus posticus, the posterior azygous lobe of the hemisphere of the mammalian brain, which is of a pyriform shape, broadest at the posterior and and tapering to the olfactory bulb. By some the term is restricted to the posterior are a which has been variously known as natiform eminence and hippocampal lobule.

(b) A small elevation near the middle of the inferior vermiform process of the cerebellum, between the biventral lobes.—Lobus pyriformis anticus, the tapering portion of the pyriform lobe anterior to the vallecula Sylvil.—Lobus pyriformis posticus, the expanded portion of the pyriform lobe posterior to the vallecula Sylvil. Also known as natiform eminence, hippocampal lobule.

[local. I. a.—Complex, simple local sign, local death, local express, sumple local sign, kdeath, *express, *stamp.

II. n. 3. A local train; an accommodation

II. n. 3. A local train; an accommodation train which stops at all stations.—4. A local -4. A local examination: as, the university locals.

local (lō'kal), v. t.; pret. and pp. localed, localed, ppr. localing, localing. [local, a.] In Scots law: (a) To apportion (an increase of the stipend of a minister of the established church) among the different heritors or landholders. Jamieson. (b) To lay the charge of such a stipend on or upon (a landholder or his land). N. E. D.

localist (15'kal-ist), n. [local + -ist.] One who has much regard for local conditions; one who studies what is local, or is inclined to treat things from a local viewpoint; specifically, in med., one who regards every disease as having a local origin.

a local origin.

locality, n. 5. In phytogeog., the approximate geographic position of an individual specimen: less definite than station. F. V. Coville.—Bump of locality, a phrase borrowed humorously from phrenology, to denote the power of finding one's way easily and certainly amid novel surroundings: as, I have absolutely no bump of locality.—Bense of locality. (a) In general, the power of finding one's way easily and certainly amid novel surroundings, as in a city visited for the first time. (b) In psychol, a phrase loosely formed on the analogy of 'sense of space,' 'sense of time,' etc., to denote the power of cutaneous localization, that is, of referring a cutaneous stimulus to the area of the skin to which it is applied.—Type locality, in zool, the place where an animal which was described as a new species was taken; the locality where a type specimen was obtained.

Canis latrans Say [Coyote]. Type locality.—Vicinity

Canis latrans Say [Coyote]. Type locality.—Vicinity of Council Bluffs, Pottawattamic County, Iowa.

Proc. Bost. Soc. Nat. Hist., Dec., 1901, p. 208.

lobster-crab (lob'ster-krab), n. A porcelain- localization, n.—Germinal localization. See *ger-

mind.

localize, v. t.—Localized capacity, electrostatic capacity introduced at given points in an electric circuit by means of condensers, as distinguished from the distributed capacity of the circuit itself.—Localized inductance, inductance introduced into an electric circuit by means of properly wound coils, as distinguished from the distributed inductance of the circuit itself.

locate, v. I. trans. 3. In the Meth. Ch., to appoint to a fixed charge or station.

II. intrans. 2. In the Meth. Ch., to settle as a permanent preacher; cease to be itinerant. location, n. 6. An intuitive perception of distance and direction.

These birds [penguins] must have a wonderful power of location, as the male dived when about 600 yards from the vessel, reappearing close by the floe where his mate was seated, the intervening space being covered with ice-floes.

Geog. Jour. (R. G. S.), XVI. 382.

locational (lō-kā'shon-al), a. [location $+ -al^1$.] Of or pertaining to location; locative.

locative, a. 3. Serving to indicate the location of anything: as, a locative object in the neighhorhood.

lochage (lōk'āj), n. [Gr. $\lambda o \chi a \gamma \delta c$, $\lambda o \chi n \gamma \delta c$, $\langle \lambda \delta \chi o c$, lochus, + $\dot{a} \gamma \epsilon \iota \nu$, lead.] In Gr. antiq., the commander of a lochus. See *lochus.

lochiorrhagia ($1\delta'$ ki- $\bar{\phi}$ -rā'ji- $\bar{\mu}$), n. [NL., \langle Gr. $\lambda \delta \chi \alpha$, lochia, + - $\rho a \gamma \omega$, \langle $\rho \eta \gamma \psi \nu \omega \omega$, break, burst.] An excessive lochial flow.

lochioschesis ($1\bar{0}$ -ki-os' $k\bar{e}$ -sis), n. [NL., \langle Gr. $\lambda\delta\chi\iota a$, lochia, $+\sigma\chi\ell\sigma\iota c$, retention.] Arrest of the lochial flow.

lochometritis (lō'kō-mō-trī'tis), n. [NL., \langle Gr. $\lambda \delta \chi \sigma_S$, childbirth, $+ \mu i_i - \rho a$, uterus, + -i t i s.] Metritis following childbirth.

lochopyra (lō-kō-pi'rā), n. [NL., < Gr. λόχος, childbirth, + πυρ(ετύς), fever.] Puerperal fever.

lochus (lō'kus), n.; pl. lochi (-kī). [NL., also lochos; $\langle Gr. \lambda \delta \chi oc,$ a company of men, an ambush.] In Gr. antiq., a body of infantry; in Sparta, one of the larger divisions in which able-bodied men capable of bearing arms were grouped.

lock¹ n. 10. A receiver of stolen goods; also, the house in which such a 'fence' receives stolen goods. [Thieves' slang.]—11. A transposition or duplication of pages on the printed sheet of a book.—Builders'lock, the general name of a class of house and store-locks.—Chubb lock, a lock of a special type made by an English inventor of that name.—Cuvelier lock, a lock for safety-lamps, consisting of a curved tubular catch which can be opened by hydraulic pressure which expands the tube and springs it open.—Duplex lock, a lock of the cylinder type, having two keys to open it, one of which is a master-key opening all of a series, and the other is adapted to its particular lock and no other. See ***guard-lock*, 2.—** Magnetic lock, in mining, a lock for safety-lamps which can only be opened by the application of a powerful magnet.—Paguil lock, a roll-top deak lock having two long bolts that engage the sides of the deak, the lock itself being in the center of the roll-top, at the middle of the deak.—Vacuum lock, a locking device operated by a vacuum; a device for utilizing the pressure of the atmosphere to hold a movable piece in position. position or duplication of pages on the printed

position.

lock², n.—In the lock, with the tufts unopened, as wool. Also in the fleecs.—Palate lock, a lock of hair over the frontal fontanelle, tied up firmly by negroes of the Southern States in cases of sore throat, because it is believed to draw up the palate and thus to give more breathing-space.

lock-bedder (lok'bed'er), n. A machine or tool for making a recess in a gun-stock for the lock and tangs.

lock-culvert (lok'kul'vert), n. A culvert or conduit below the floor of a hydraulic lock, connecting the lock-chamber with the sections connecting the lock-chamber with the sections of the canal or basin both above and below the lock. The flow of water to or from the lock-chamber is regulated by two wickets placed in the culvert, one on each side of the outlet or connection from the culvert to the lock-chamber.

lock-chamber.

lock-gate, n. There are various forms of lock-gates, the more common of which are the miter gate and the aliding gate. In the former, the gate at each end of the lock is composed of two leaves, each turning about a vertical axis at the side wall of the lock, when open standing parallel with the side wall, and when closed abutting together at an obtuse angle, the surface of contact between the two gates forming a miter. A sliding lock-gate is one which, when the lock is to be opened, slides horizontally into a recess in the masonry.

lock-ing (lok/ing). n. A sulit pin. Barrow-

locking (lok'ing), n. A split pin. Barrow-man, Glossary.
locking-bar (lok'ing-bär), n. 1. A bar or rod used to lock a door or mechanism.—2. In railroading, same as *detector-bar.
locking-bolt (lok'ing-bölt), n. Same as *locking-bolt (lok'ing-bölt), n.

ic ing-pin.

it locking-pin (lok'ing-pin), n. A pin that locks

one piece of a mechanism to another; sperudder of a double-ended ferry-boat in a line with the keel. Also locking-bolt.

lockless (lok'les), a. [lock' + -less.] Without

a lock or locks.

lock-lug (lock'lug), n. The raised portion on the upper surface of a gun to which the lock is secured.

lock-net (lok'net), n. A large cylindrical hoop-

net used to catch crawfish.

lock-seat (lok'sēt), n. 1. The excavation, pit, or foundation for a hydraulie lock.—2. The

or foundation for a hydraulic lock.—2. The general location or place intended or suitable for a hydraulic lock. Also lock-site.

lock-site (lok'sit), n. Same as *lock-seat, 2.

lock-turbine (lok'ter"bin), n. A hydraulic turbine placed in or near the walls of a hydraulic lock, driven by water flowing from the upper to the lower lovel of the begin used. upper to the lower level of the basin, used for the purpose of furnishing power with which to operate the wickets and gates of a lock and to draw boats into or out of a lock.

lock-wicket (lok'wik'et), n. A wicket, gate, or valve placed in a lock-gate or in a lock-unity of the purpose of suppliciting the flow

or valve placed in a lock-gate or in a lock-culvert, for the purpose of regulating the flow of water into or out of a hydraulic lock.

loco¹, n. II. a. Derived from loco-weed.—Loco acid, a compound isolated from loco-weed, to which the poisonous properties of the plant are attributed.

loco¹, v. t. Hence—2. To make crazy or in any way eccentric: as, he's plumb locoed. [Slang, western II S.]

western U. S.1

loco² (lō'kō), n. An abbreviated form of loco-motive. [Little used in the United States.]

Locofocoism (lō-kō-fō'kō-izm), n. [locofoco + Locofocoism (lō-kō-fō'kō-izm), n. [locofoco + -ism.] The principles of the Locofoco party.

locoism (lō'kō-izm), n. A disease of cattle in the semi-arid region of the western United States, due to eating certain weeds known as loco-weeds, and characterized by peculiar nervous symptoms which are followed by paralysis amagistic and finally death paralysis, emaciation, and finally death.

paralysis, emaciation, and finally death.

locomarine (lo'kō-ma-ren'), a. [loco(motive) + marine.] Of a locomotive type, but used in a ship: as, a locomarine boiler.

locomobile (lō-kō-mō'bil), a. and n. [L. locus, place, + mobilis, movable.] I. a. Having the power to change its place by its own motor, or without the aid of power or apparatus outside of itself.

II. n. A commercial name for a form of

motor-car locomobility (lō'kō-mō-bil'i-ti), n. [locomobile + -ity.] The character of being locomobile; the capacity or power to move from one

bile; the capacity or power to move from one place to another.

locomote (lo'kō-mōt), v. i.; pret. and pp. locomoted, ppr. locomoting. [A back-formation from locomotor.] 1. To move from one place to another. [Humorous.]—2. In biol., to effect a change of place: as, a medusa which locomotes toward the light.

locomotility (lo'kō-mō-til'i-ti), n. [L. locus, place, + E. motility.] Same as locomotivity.

locomotive. I. a.—Locomotive chair. See *chair.—Locomotive crane. See railway-crane (b), under *crane2.—Locomotive-rod boring-machine. See *boring-machine.

**keranc2.— Locomotive-rod boring-machine. See **horing-machine.

In .n.—Camel-back locomotive. Same as **camel-back. 2.—Fairlie locomotive, a double-ended locomotive having four cylinders, two boilers with a double fire-box Netween them, and, a swiveling arrangement for the trucks to allow it to run around curves: designed for use on narrow-gage roads where high tractive power is called for with small diameter of boiler.—Forney locomotive, a locomotive in which the tank and coal-bunker are carried on an extension of the engine-frame, back of the fire-box, supported by a swiveling-truck. These locomotives were used in suburban traffic and on the elevated railways in New York city before the introduction of electricity.—Mason locomotive. Same as double-truck tank-locomotive (which see, under locomotive).—Rack-rail locomotive, a locomotive for use on a rack-railroad; one having a pinion, driven by engines, to engage with a stationary rack on the road-bed instead of depending on the adhesion of smooth wheels to rails: used on roads which have excessive grades, as on mountain ascents.—Single-driver locomotive, one having only one pair of driving-wheels, and intended for high speed with low tractive power. It avoids the use of side-or coupling-rods.—Strong locomotive, a locomotive, separate exhaust and steam-valves, and a valve-gear by which it could be run either forward or backward, with only one eccentric for each side. It also had a cylindrical fire-box, arranged to form a twin furnace, corrugated to resist collapse, and with a combustion-chamber to secure complete combustion before the gases entered the tubes.

locomotive-balance, n. 2. A weight placed in the driving-wheel of a locomotive to balance, as much as possible, the inertia of the reciprocating parts.

locomutation (lō'kō-mū-tā'shon), n. [L. locus, place, + mutatio(n-), change.] Change of place; moving from place to place. [Nonce-word.]

I should be glad to speculate also on the effect of the tendency of population towards great cities; no new thing, but intensified as never before by increased and increasing ease of locomutation.

Lovell, Latest Lit. Essays and Addresses, p. 184.

locor (lo' kor), n. [L. loc(us), place, + E. (vect)or.] A vector which has definite position, but does not indicate rotation or any rotative function.

function.

In the review of Prof. Henrici's "Vectors and Rotors" in NATURE of October 29 (p. 617), it was mentioned that Prof. A. Lodge had suggested the use of the word "locor" to indicate a vector which has definite position, but does not indicate rotation or any rotative function. Prof. R. H. Smith writes to say that the word "locor" is used in this way throughout his book "Graphics," published by Messrs. Longmans in 1888, "rotor" being used for rotative quantities.

Nature, Nov. 19, 1903, p. 64.

locoto (lō-kō'tō), n. [Sp. corruption of Aymará locoti, Quichua roccoto, erroneously described by Tschudi as green pepper.] A variety of the ají or red pepper, botanically known as Capsicum pubescens (Raimondi), growing in the warmer valleys of Peru and Bolivia. It is plum-shaped and has but one large seed. large seed.

loculamentous (lok'ū-la-men'tus), a. Full of

loculaments, or little cells.
loculus, n. 1. In zoöl.: (c) Same as *air-cham-

ocum (lô'kum), n. [locum(-tenens).] 1. A locum-tenens (in medical practice). The Lanlocum (lõ'kum), n.

cet, June 6, 1903 (advt.).—2. The temporary place occupied by a locum-tenens. The Lancet, June 6, 1903 (advt.).

locum-tenent (lo'kum-te'nent), n. Same as locum tenens (which see).

I met with a serious accident . . . in consequence of which I had to engage a locum-tenent, as I was obliged to leave home for a complete rest.

Lancet, Aug. 19, 1899, p. 547. locustal (15-kus'tal), a. Of or pertaining to

locupletativet (lok-ū-plē'tā-tiv), a. [L. locupletatus, pp. of locupletare, make rich, \locuples, rich: see *locuplete.] Tending to make rich. locuplete (lok'ū-plēt), a. [L. locuples (-plet-), rich in lands, rich, opulent, < locus, a place, + \sqrt{ple} - in *plore, fill, plonus, full.] Rich; wealthy; well stored. Blount.

locus, n. 6. The words and figures, in the signature to a quotation or in a reference to a passage, which designate the particular place passage, which designate the particular place or division of the work (book, chapter, page, section, verse, line, etc.) where the passage in question occurs. The locus properly follows the title of the work or piece cited, and the title follows the name of the author.—7. In geom., the place of all the points, and of only those points, which satisfy a given condition.

All points in a plane which satisfy a single geometric condition make up often a single straight or a single circle, in rare cases more than one. Neglecting these rare cases, we may call such straight or circle the locus (place) of the points satisfying the given condition.

G. B. Halsted, Rational Geometry, p. 269.

Cusp-locus. Same as cuspidal locus.—Lexell's locus. Same as Lexell's *circle.—Locus communis, a common-

place.

locus² (lō'kus), v. t.; pret. and pp. locused or locussed, ppr. locusing or locusing. [Appar. adapted from loco], v., associated with hocus, v.] To stupefy with drink.—To locus away, to carry off while stupefied. [Slang.]

locus² (lō'kus), n. [See *locus², v.] Something which stupefies, as liquor. [Slang.]

locust¹, n.—American locust, Schistocerca americana, one of the largest of the long-winged American



American Locust (Schistocerca america

grasshoppers, allied to several of the most destructive migratory locusts in other parts of the world.—Cali-fornia devastating locust, a western American acri-



California Devastating Locust. (Melanoplus devastator).

diid, Melanoplus devastator, which frequently does great damage to grasses and grains in California.—Carolina locust, an American acridiid, Dissosteira carolina, of wide distribution, rust-brown in color, found commonly along dusty country roads in August.—Clear-winged locust, Camnula pellucida.—Clouded locust, an American acridiid, Encoptolophus sordidus, dirty brown in color and occurring abundantly in pastures in the eastern United States in the autumn.—Differential locust, a common North American grasshopper, Melanoplus differentialis, chiefly notable from the



Differential Locust (Melanoplus differentialis). (Sanderson, U. S. D. A.)

great damage it occasionally does to cotton-plants in certain of the southern United States.—Dog-day locust, an American cleadid insect, Tibicen pruinoss. Also called harvest-fly and lyreman.—Dudley locust, a local name in England for the Dudley trilobite (which see, under trilobite).—Green-faced locust, an American acrididig grasshopper or locust, Chortophaga viridifasciata, common in meadows and pasture-lands in many of the United States.—Hooded locust, a curious locustid of the genus Typhoptera, inhabiting the Malay Peninsula, which has a bladder-like membrane between head and thorax, which when alarmed it can throw out into a hood-like organ over the head.—Leather-colored locust, Schistocerca alutacea.—Leaser misratory locust, and American acrididi, Melanoplus atlanta, occasionally injurious to crops, especially in a restricted region in southern New Hampshire.—Migratory locust. See Rocky Mountain locust, under locust1.—Red-legged locust,

Melanoplus femur-rubrum. See red-thighed locust, under locust.—Sprinkled locust, Chloealtis conspersa.—Two-striped locust, Melanoplus bivittatus.

locust; n.—Locust leaf-beetle. See *leaf-beetle.—
Locust saw-fly. See *saw-fly.—River-locust, Amorpha fruticosa, a North American leguminous shrub with spike-like racemes of violet-purple flowers. Better known as bastard or false indigo.—Sweet locust, thorn-locust, the honey-locust.

loonata

locust-beetle (lō'kust-bē'tl), n. An American cerambycid beetle, Cyllene robiniæ, whose larva bores in the trunks and branches of locust-trees.

ocust-bird, n. 2. In South Africa, applied to several very different birds, specifically to one of the grackles, Creatophora carunculata.—Great locust-bird, the stork, Ciconia alba.—Little locust-bird, Glarcola nordmanni, a pratincole, or member locust-bird, n.



Little Locust-bird (Glarcola nora

of the piover rainfly, which has something the appearance of a long-legged swallow.

locustid (lō-kus'tid), n. and a. I. n. A member of the orthopterous family Locustids.

II. a. Having the characters of or belonging to the family Locustidæ.

locust-lobster (lō'kust-lob'stèr), n. A crustacean belonging to the family Scyllaridse.

locust-mite (lo'kust-mit), n. A red mite, Trombidium locustarum, which destroys grasshopper eggs in the United States.

locust-moth (lô'kust-môth), n. An American tineid moth, Depressaria robiniella, whose small, green, black-headed larva defoliates locust-trees in June.

locust-tree, n. 2. In New Zealand, Sophora tetraptera. See *kowhai.— African locust-tree, Parkia Africana. Also called nitta-tree. See Parkia.

locutory, n. II. a. Pertaining to or producing speech.

speech.

lode¹, n.—Comstock lode, a very noted mineral lode formerly worked on a large scale at Virginia City, Nevada. It is a great fissure-vein, four miles long, through igneous rocks of Tertiary age, on the western fiank of Mount Davidson. This lode has produced more than \$256,000,000 in gold and silver.—Live lode, a lode containing ore which it is profitable to work.—Peachy lode, a lode which has a bluish-green color that, in some lights, presents a deep pink color.—Right-running lode, a lode which runs parallel, or nearly so, to the axis of elevation of the district.

lode-light (lod'lit), n. See the extract.

Appearances of fisme above mineral veins are said to

Appearances of flame above mineral veins are said to have been seen, and at all events are sufficiently well established to have received a special name 'lode kights' in Cornwall. C. Le N. Foster, Ore and Stone Mining, p. 107. lode-mining (lod'mi'ning), n. The taking out of ore which occurs in lodes or veins.

dence of the head of a college.—9. In mining, a cabin at the pit-head for workmen. Barrowman, Glossary.—Cavate lodge, a dwelling cut out of soft rock. Such dwellings are found, for instance, the canons of the southwestern United States. See **cavate. lodge, n. 8. In Cambridge, England, the resi-

Acavate.

Cavate lodges comprise a type of structures closely related to cliff houses and cave dwellings. The term is a comparatively new one, and the structures themselves are not widely known. They differ from the cliff houses and cave dwellings principally in the fact that the rooms are hollowed out of cliffs and hills by human agency, being cut out of soft rock, while the former habitations are simple, ordinary structures built for various reasons within a cove or on a bench in the cliffs or within a cave. The difference is principally if not wholly the result of a different physical environment, i. e., cavate lodges and cave dwellings are only different phases of the same thing; but for the present at least, the name will be used and the cavate lodges will be treated as a separate class.

Smithsonian Rep., 1882, p. 217.

lodging-money (loj'ing-mun'i), n. In the British service, a money allowance in lieu of Called commutation of quarters in the United States.

lodgment, n. 5. In mining, same as lodge, 7.

lodgment-level (loj'ment-lev'el), n. Same as *lodgement, 5, and lodge, 7.
lodhranite, lodranite (lod'ra-nit), n. [Formation not ascertained.] A type of meteoric stone or aërolite. See *meteorite.

stone of aeronice. See *meteorite.

lodja (löd-yä'), n. [Also lodia, ladia (see *ladia); < Russ. lodiya, lodiya, also ladiya, ladiya, = Pol. lodzia (barred !) = Bohem. lodi = Serv. ladya = Bulg. ladya = OBulg. ladiya, = Serv. latya = Bug. latya = Obing. latya, aldidya = Lith. eldiya, aldiya, a ship.] A Russian boat, long, flat-bottomed, and propelled by oars, but in some forms provided with a deck and a mast.

Thursday at 6 of the clocke in the morning there came boord of us one of the Russe Lodices, rowing with wentie cares, and there were foure and twentie men in er.

Steven Burrows, in Hakluyt, Voyages, I. 276.

10688, n.—Remodified loss, loss which has been redeposited after its first formation.

deposited after its first formation.

All that we know of the loess and its fossils compels us to include this accumulation as a product of the Pleistocene period. It is not of post-glacial age, even much of what one may call the "remodified loess" being of Late Glacial or Pleistocene age.

Smithsonian Rep., 1890, p. 227.

loessial (les'i-al), a. [loess + -ial.] In geol., belonging to or derived from loess.
loessic (les'ik), a. [loess + -ic.] Same as

loeweite (le'vē-īt), n. [G. loweit (1847), named Oewer of the Austrian mint.] A hydrated sulphate of magnesium and sodium, found at the Ischl salt-mine, Austria.

loewigite (lévig-it), n. [G. löwigit (1861), named after K. J. Loewig, who first analyzed it.] A hydrated sulphate of aluminium and potassium, occurring in straw-yellow rounded

Scotch.

loft's (loft), n. In golf: (a) The act of lofting.
(b) The stroke so made. (c) The degree of slope from the vertical of the face of a club.

loft-dried (lôft'drid), a. A trade-term applied to hand-made paper air-dried, usually in lofts or rooms arranged for the purpose.

lofter (lof ter), n. A lofting-iron.
lofting, n. 2. In mining, lagging or longitudinal

timber resting on caps to support the roof of a working. [Eng.]

lofting-iron (lôf'ting-i'ern), n. In golf, a form of club used in lofting a ball. See cut under

golf-club.

log', n. 3. pl. A jail (formerly built of logs).
[Slang, Australia.]

'Let's put him in the logs,' says Jim. 'My word! just for a lark; turn for turn.'
We pushed him into the farthest cell and locked both doors.
The lock-up, like most bush ones, was built

doors. . . The lock-up, mac most of heavy logs.

Rolf Boldrewood, Robbery under Arms, xxv.

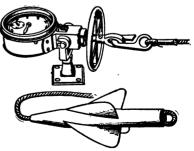
One connected with lumbering operations at Bangor told me that the largest pine . . . was worth ninety dollars in the log.

Thoreau, Maine Woods, p. 148.

Prize logs, in lumbering, logs which come to the sorting fack without marks denoting ownership.—To stock logs, to deliver logs from the stump to the mill or railroad.

log2, n. 1. The taffrail-log has three main parts,

log², n. 1. The taffrall-log has three main parts, namely, the register or dial, the rotator or propeller, and



Taffrail-log.

the braided line. The rotator is towed astern, and owing to the pitch of its blades it revolves as the vessel moves ahead. These revolutions turn the line which connects with the horizontal bar of the register, which in turn revolves a series of cog-wheela, and these move the hands in the respective circles on the face of the register, on

the principle of the gas-meter. Some registers are provided with two, and some with three hands. In the latter case the first hand marks quarters, each division representing one quarter of a mile, or two furlongs; the second marks even miles, recording as high as ten miles; and the third marks ten-mile divisions and its graduated, the three hands all indicate zero. Where the register to one hundred miles. When the century point is reached, the three hands all indicate zero. Where the register has only two hands, as shown in the engraving, one of the hands marks either quarter-miles or tenths of a mile, and the other hand marks single miles extending as high as one hundred.

In the latter case the first hand marks quarters, each division ing, speech.] The speaking-place (L. pulpitum), ⟨λόγος, speaking-place (L. pulpitum), ⟨λογος, speaking-place (L. pulpitu as one hundred.

743

88. In tailoring, a document which fixes the time to be credited to journeymen for making a specified kind of garment, the men being paid nominally by the hour. N. E. D. Also atspecified kind of garment, the men being paid nominally by the hour. N. E. D. Also at tributive: as, a log shop.—Boat's log, an instrument used in surveys for measuring the distance run by a boat. It is a small copy of the taffrail-log employed generally at sea for recording the number of miles logged by a vessel.—Current-log. Same as ground-log (which see, under log2).—Harpoon log, a distance recorder named from its peculiar shape, which resembles that of a harpoon.—Patent log, one of a large variety of a patented instruments for recording the speed of and distance run by a vessel.—Spring log, a speed measurer construin upon the spring marking the velocity of the vessel through the water. This log has a specially designed chip which is towed astern by a fine silk cord, the other end being hitched to the hook on the spring.—Submerged log, a log with a propeller and dial in one length, both towed astern: it is necessary to haul in the entire instrument when it is required to read the distance run.—Taffrail-log. See *log2, 1.

log2, v. t. 1. (b) Naut., to enter in a log-book the name of a man, with his offense and the penalty attached to it; hence, to fine.

logsaraphia (log-a-graf'i-ā), n. Agraphia, or loss of the power to express ideas in writing.

A logan² (lō'gan), n. [Algonkian pokologan, etc.: nm, see *pokeloken.] See *pokeloken.

Bee *pokeloken.] See *pokeloken.

Bogan: A word very much used by guides and others who go into the New Brunswick woods is bogan—a still creek or bay brenching from a *tream—exactly the same thing the Indians call a pokologan—and I think the former is a corruption of the latter word. Now curiously enough, exactly the same thing is generally called in Maine a logan—which must be another form of the same word. These words are in good local use, and occur in articles on sporting, etc.

Jour. Amer. Folk-lore, April—June, 1903, p. 128.

bearing acid fruits.

loganberry (lō'gan-ber'i), n. [Named for Judge J. H. Logan, the originator.] A dewberry-like plant said to be a hybrid between Rubus vitifolius (the dewberry of the Western States) and R. Idæus (the European raspharm) berry). It originated in California in 1881. The fruit is blackberry-like, very large, dark red in color, and promises well as a garden fruit in some localities.

loganetin (lō-ga-nē'tin), n. [logan(in) + -et + -in².] A cleavage-product of the glucoside loganin.

loganiaceous (lo-gā-ni-ā'shius), a. Pertaining to or having the characteristics of the Loganiaceæ.

loganin (lō'gan-in), n. [Appar. < Logan, a person's name (†), + -in².] A colorless glucoside, C₂₅H₃₄O₁₄, contained in the pulp which embeds the seeds of Strychnos Nux-vomica. It crystallizes in prisms and melts at 215° C.

loganite (lō'gan-it), n. [Named after Sir William Logan (1798-1875), at one time director of the Geological Survey of Canada.] An altered amphibole from Calumet Falls, Quebec: akin to penninite in composition.

logaphasia (log-a-fā'ziā'), n. [NL., ⟨Gr. λόγος, word, + NL. aphasia.] Loss, through braindisease, of the power to express ideas by a car having two trucks which support an unarticulate speech.

hour, and then hang ourselves.

Richardson, Grandison, L Letter iv.

logging-car (log'ing-kār), n. In car-building, a car having two trucks which support an unarticulate speech.

logarithmetically (log'a-rith-met'i-kal-i), adv. An erroneous form for logarithmically. logarithmic, a. 2. Pertaining to the logarithmic curve.—Logarithmic decrement, differentia-tion, paper, etc. See *decrement, etc.

II. n. A logarithmic curve. Log-cabin china. Same as Columbian star

log-deck (log'dek), n. 1. In a sawmill, the main floor, where the logs arriving by the log-slide are turned out of the slide by the flipper and assembled ready for sawing. It consists of a sloping floor down which the logs roll on rails to the log-loader, which delivers them one at a time to the saw-carriage. See **saw-carriage, **log-slide, **fipper, 5, and **log-loader.

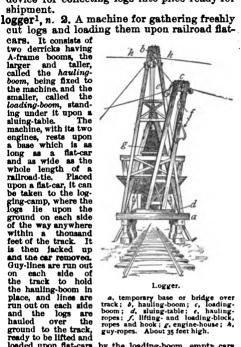
2. The platform on a loading-jack.

loge² (lozh), n. [F.: see lodge and loggia.] 1. A booth or stall.—2. The French name for a private_box in a theater, used in English with the French pronunciation.

note the person concerned with the indicated science or subject ending in -logy. It is equivalent to -logue, which represents the original Greek noun, or -logist, which is more used than either. It occurs first nastrology (which was probably formed from astrology +-erl, after astronomyer, astronomer, rather than directly from L. astrologus + E. -erl), chronologer, geologer, philodoger (obsolescent), theologer. The suffix is no longer a living formative, being superseded by -logist.

log-gatherer (log'gavH'er-er), n. A hauling-device for collecting logs into piles ready for shipment.

logger¹, n. 2. A machine for gathering freshly



a, temporary base or bridge over track; b, hauling-boom; c, loading-boom; d, stung-table; e, hauling-ropes; f, lifting- and loading-block, ropes and hook; g, engine-house; h, guy-ropes. About 35 feet high.

and the logs are hauled over the ground to the track, ready to be lifted and loaded upon fiat-cars being added to the train by running them under the loader.

loggerhead, n. 4. (b) In the southern United oggerhead, n. 4. (b) In the southern United States, the common snapping-turtle, Chelydra serpentina.—6. Specifically—(b) in the British West Indies, a name applied to two large tyrant flycatchers, Pitangus caudifasciatus, and Myiarchus crinitus.—10. The steamer-duck, Tachyeres cinereus, a flightless water-fowl of the Falkland Islands and Straits of Magallan.—11. A layer or walking-beam of Magellan.—11. A lever or walking-beam which connects the piston-rod of an engine to the pump-plunger.—12. A pewter inkstand, circular and very heavy.

Pewter is now chiefly used for office inkstands and public-house or other tankards. The inkstands of this large collection are most varied, and include many of the prototypes of the circular heavy inkstand, still used, and known to many under the old name of "loggerheads."

Athenæum, Feb. 27, 1904, p. 280.

13. A large, heavy head, out of proportion to the body.

Why, dear madam, did you not spare your especially? said Mr. Greville. Come, Fenwick, let us retire and lay our two loggerheads together, and live over again the past hour, and then hang ourselves. Richardson, Grandison, L Letter iv.

derframe but no floor or car-body. It is used on light- and standard-gage roads for logs and lumber. An-other type, for narrow-gage roads, consists of a truck supporting a pivoted bridge for carrying long logs and telegraph-poles, the load being supported between two

logging-wheels (log'ing-hwelz), n. pl. A pair of wheels, usually about 10 feet in diameter, for transporting logs. Also called big-wheels, katydid, and timber-wheels.

loggy (log'i), a. [Appar. log¹ + -y¹; but perhaps only a variant of logy.] 1†. Of strong growth; rank: said of a crop.—2. Heavy; stiff; sluggish: said usually of movement.

They were beat, however, by their oars, and by their slow, loggy stroke, and by their cheekiness.

Illus. London News, Aug., 1847, p. 142.

log-haul (log'hâl), n. In a sawmill, the conveyer used to lift logs from the water on which they float into and through the mill to the saws. It consists of a V-shaped spout or guideway open at the bottom. In this slot travels an endless conveyer-chain. A log floated into the open end of the conveyer is caught by

points on the chain and drawn upward in the spont until it reaches the end of the conveyer; there the chain turns ing to logogriphic (log - \(\bar{0}\)-grif' ik), a. Of or relative treates the end of the conveyer; there the chain turns downward, leaving the log free to be rolled off sidewise upon the rails, down which it rolls to the saw-carriage. The capacity of a log-haul is about 1,800 logs in a day.

logia, n. Plural of *logion.

-logian. An ending occurring in theologian and some later words that form nouns of agent going with names of sciences in -logy. Examples are theologian, (the first of the type), geologian, philologian, (the first of the type), geologian, philologian, etc. See *-loger, *-logist.

logic, n.—Byzantine Logic, a name given to a development of logic which Dr. Carl Franti supposes to have taken place in Constantinople, solely on the evidence of one book which he supposes to be written in Byzantine Greek, but which Professor E. A. Sophocles regarded as plainly belonging to a later stage of the language. It is loaded with Latinians and appears to show plain marks of the influence of Priscian. It was possibly written in Italy after the fall of Constantinople. This work and the victual; one is a literal translation of the other.

Logical aggregate, sequence. See *aggre
Logical aggregate, sequence. See *aggre-

Logical aggregate, sequence. See *aggre-

gate, 4, *sequence.

logie² (lō'ji or -zhi), n. [D., < F. loge: see lodge, n.] In British Guiana, a shed or hut lodge, n.] In Bri open at the sides.

open at the sides.

logion (log'i-on), n.; pl. logia (- $\frac{n}{2}$). [Gr. $\lambda\delta\gamma\iota\sigma\nu$, a saying, $\langle \lambda\delta\gamma\sigma\rangle$, a saying, a speech, a word: see Logos.] A saying or maxim, as of a teacher, handed down traditionally: specifically used with reference to sayings attributed to Jesus. Collections of such sayings are supposed to have existed in the first century. Fragments of such a collection, ascribed to the third century or earlier, have been discovered in Egypt.

A great store of fragments of literary works, among which occur the now well-known "Logia" or "Sayings of Our Lord."

Encyc. Brit., XXXL 441.

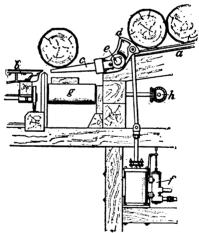
-logist. An ending forming nouns of agent used in connection with abstract nouns in -logy. The formation is mainly English.

logistic. I. a. 4. In math.: (a) Logarithmic. (b) Pertaining to a logarithmic curve.—Logistic language. See *language1.—Logistic numbersi, ratios or fractions.

II. n. 2. A logistic curve. See cut under

log-jack (log'jak), n. Same as *gangway, 4. log-kicker (log kik'er), n. In a sawmill, an appliance, operated by steam, for throwing the logs out of the log-slide upon the log-deck. It performs, in a different way, the same work as the flipper.

log-loader (log'lō'der), n. In a sawmill, a device, operated by steam, placed at the bottom



Log-loader.

Log-loader.

a, inclined log-deck of sawmill (logs roll down on rails); \$\delta\$, sawmill-carriage; \$\epsilon\$, loader delivering log to carriage; \$\delta\$, logstop combined with loader, holding back next log; \$\epsilon\$, pivot on which loader and stop turn; \$\epsilon\$, stam-motor operating combined log-loader and stop through piston-rod and connecting-rod: descent of piston draws stop down, allowing log to roll on loader; ascent of piston lowers arm of loader, allowing log to roll down to carriage and interposing stop to check advance of next log; \$\epsilon\$, roller-conveyer removing planks from saw, plank passing under loader; \$\epsilon\$, gearing operating live roller.

of the log-deck, which selects one log at a time Logia bark. Same as Loza bark (which see, from the mass of logs on the deck and delivers under bark²). it to the saw-carriage.

logodædalus (log-ō-ded'a-lus), n.; pl. logodædali (-lī). [Gr. λογοδαίδαλος, < λόγος, speech, + δαίδαλος, skilled.] One who is cunning in words. N. E. D.

logogrammatic (log'ō-gra-mat'ik), a. [logo-gram + -atic (cf. grammatic).] Of or relating to logograms.

logograph (log'o-graf), v. t. [logograph, n.]
To print with logotypes.

logomachize (lō-gom'a-kīz), v. i.; pret. and pp. logomachized, ppr. logomachizing. To engage in verbal fencing or a war of words.

logomania, n. 2. A form of mental unsoundness characterized by excessive garrulity.

logomaniac (log-ō-mā'ni-ak), n. [Gr. λόγος, word, + E. maniac.] One who is insanely devoted to words rather than ideas.

The customs of those logo-maniacs or word-worshipers.

H. Green, Shakspeare and the Emblem Writers, p. 103. togoneurosis (log'ō-nū-rō'sis), n. [NL., ⟨Gr. λόγος, word, + νεῦρον, nerve, + -osis.] A nervous disorder which impairs the enunciation of words.

logopathy (lō-gop'a-thi), n. [Gr. λόγος, word, + πάθος, disease.] A defect in speech due to cerebral disease. Baldwin, Dict. of Philos. and Psychol., Π. 30.

the action of dilute acids on lokaonic acid. It crystallizes in needles.

Lollardize (lol'ar-dīz), v. i.; pret. and pp.

Lollardized, ppr. Lollardizing. [Lollard + -ize.] To think or act with the Lollards.

lolling-bit (lol'ing-bit), n. A bit with a device attached at the center of the mouthpiece to prevent the horse's tongue from protrading.



The number of board-feet in eters of logs. logs of given diameters and lengths is shown

Log-rule.

on the stick.

log-runner (log'run'er), n. An Australian bird of the genus Orthonyx, formerly considered as related to the lyre-bird, but now placed in that heterogeneous group the Timeliidæ. There are about half a dozen species, the type of the genus being O. spinicauda. They are almost as large as sparrows, and have large feet, straight claws, and a spiny tail, whence the name spinetail. frequently given to them

log-slide (log'slid), n. In a sawmill, a long, narrow wooden channel up which logs are drawn by a chain. It leads from the place where the logs are floating or lying up to the log-deck.

log-deck.

-logue. [Also -log, -loge; ME. -loge (in cataloge); F. -logue, < L. logus, < Gr. -λογος, -λογ-ος, the verb stem (in some cases a separate word, λόγος) in composition.] An element in several words from the Greek, as analogue, catalogue, decalogue, dialogue, duologue, epilogue, prologue. It occurs also (instead of -loger or -logist) in some obsolescent designations of persons, related to abstract nonunin-logy, as Assyriologue, astrologue, philologue, Sinologue, theologue, etc.

logway (log'wā), n. Same as *gangway, 4. logwood, n.—Cream of logwood, a concentrated liquor extracted from logwood chips, used for blackening leather. C. T. Davis, Manuf. of Leather, p. 559.

loi (lo'ē), n. [Hawaiian.] A taro-patch; an artificial pond where taro is cultivated.

under bark2).

loka (lō'kā), n. [Skt. loka, an open space, a place, a region, a division of the universe, a world.] In Hindu philos., a division of the universe; a world. The three chief lokas or divisions are heaven, the earth, and the lower regions, of which there are seven; but the term is more particularly applied to seven superior worlds inhabited by different orders of beings, which, beginning with Bhūr-loka, the earth, rise in succession one above the other above the lower world, and culminate in Satya-loka, or Brahmā-loka, the abode of Brahmā and the superior deities. Buddhism adopted a similar classification.

dye wafers prepared in the province of Chekiang: luh, green; kao, fat, grease, ointment.] A green dyestuff of Chinese origin, obtained from a decoction of the bark of Rhamnus chlorophorus and R. utilis, apparently by precipitation as an aluminium lake. It has been used by European dyers, but is now laid aside in favor of the artificial coal-tar colors. Also called Chinese green and green indigo.

lokaonic (lō-kā-on'ik), a. [lokao + -n- +-ic.]
Noting an acid, a dark blue-black compound,
C42H48O27, constituting the coloring-matter
of lokao.

of locac. locacs (locacse)
rsychol., II. 30.

logorrhea (log-ō-rē'ä), n. [Gr. λόγος, word, + boia, flux.] Morbid loquacity and rapidity of speech. Baldwin, Dict. of Philos. and Psychol., II. 30.

log-rule (log'röl). n. 1 G-

Psychol., 11. 30.

logorrhea (log-ō-rē'ā), n. [Gr. λόγος, word, + boia, flux.] Morbid loquacity and rapidity of speech. Baldwin, Diet. of Philos. and Psychol., II. 30.

log-rule (log'röl), n. 1. Same as log-scale.—
2. A graduated stick for measuring the diam-logored logored lo

The vegetation [of Peru] diminishes and varies as soon as the coast is left behind and the foothills or lomas of the Cordillera are reached.

Nat. Geog. Mag., Aug., 1904, p. 315. Lomanotidæ (lō-mā-not'i-dē), n. pl. [NL., < Lomanotus + -idæ.] A family of nudi-branchiate gastropods having a slug-like body, the dorsum prominent, undulating or lobed, with one row of small cerata, no tentacles, and the rhinophores much foliated. It con-

tains the single European genus Lomanotus.

Lomanotus (lō-mā-nō'tus), n. [NL., < Gr. λωμα, fringe, + νωτος, back.] The typical and only genus of the family Lomanotidæ. Vérany,

Lomatium (lō-mā'shium), n. [NL. (Rafinesque, 1819), in allusion to the wing surrounding the fruit; $\langle Gr. \lambda \omega \mu \acute{a} \tau \iota vv$, dim. of $\lambda \check{\omega} \mu a$, the border of a robe, a fringe.] A genus of dicotyledonous plants belonging to the family Apiacex. They are nearly or quite acaulescent perennial herba, with fusiform or tuberous roots, lobed or dissected leaves, and yellow, white, or purple flowers. The genus differs from Peucedanum, to which it has sometimes been referred, in its acaulescent habit, usually single umbels, and in the absence of a stylopodium. About 60 species are known, all natives of the drier regions of western North America. The roots of several, called cous, course, or biscuit-root, were eaten by the Indians and early settlers. See courish?

Lombardesque (lom-bär-desk'), a. [Lombard+esque] Having the characteristics of Lombardian (lom-bär'di-an), a. Same as Lombardia. Lomatium (lo-mā'shium), n. [NL. (Rafinesque,

Lombardic. Lombardism (lom'bër-dizm), n. [Lombard + -18m.] An idiom characteristic of Lombardy or the Lombardic dialect.

lomentariaceous (lō-men-tā-ri-ā'shius), a. Belonging to the family of seaweeds Lomentariaceæ.

lomita (lō-mē'tā), n. [Sp., dim. of loma, ridge.] In Spanish-American countries, hillock. [Sp., dim. of loma, a

a Lon. An abbreviation of London. he Lonchiurus (long-ki- \bar{u} /rus), n. [NL., \langle Gr. $\lambda \delta \gamma \chi \eta$, a spear, $+ oip \dot{a}$, tail.] A genus of sciencid fishes found from the West Indies to Guiana.

Lonchopisthus (long-kō-pis'thus), n. [NL., $\langle Gr, \lambda \delta \gamma \chi \eta$, spear, $+ \delta \pi \iota \sigma \theta e$, at the back.] A genus of fishes of the family *Opisthognathidæ*, known only from Cuba.

An abbreviation of London. Londinensian (lun-di-nen'si-an), a. Londinensis, (Londinium, London.] [ML. Of or characteristic of London.

He feels them big; he thinks them human in their bulk; they are Londinensian.

G. Meredith, One of our Conquerors, i.

Londinian (lun-din'i-an), a. [NL. *Londinianus, < L. Londinium, London.] Of or pertaining to London: in geol., same as *Ypresian. London-lace (lun'dun-las), n. The reed canary-grass, Phalaris arundinacea. Also lady's-laces, bride's-laces.

London particular. See *particular. long!. I. a. 9. Having a long time to run before maturing: as, a long bill; long (commercial) paper.—10. Well- or over-supplied: as, to be long in some commodity or stock. as, to be long in some commodity or stock. See long of stock, under long1.—Long and short work, long odds, price, train, vacation. See *work, etc.—Long-distance telephone. See *telephone.

II. n.—Longs and shorts, cards trimmed at different lengths, so that in such games as cribbage a sharper can lift off a portion of the pack and leave a known card on the top of the cut; also used in blind hookey, so that the dealer may always get a high card.

the dealer may always get a high card.

longbeak, n. 2. Any butterfly of the family Lybytheidæ: so called from their very long, appressed, beak-like palpi.

long-butt (long'but), n. The longest of four

appressed, bear-like paipi.

long-butt (lông'but), n. The longest of four cues employed in English billiards. It was also employed in American games until tables were reduced in size from 6×12 to $5 \frac{1}{8} \times 11$ feet and then to 5×10 feet as the standard.

longe³ (lonj), n. An abbreviated form of mas-

kalonge.
kalonge.
long-ell (lông'el), n. A coarse woolen cloth made in long pieces.

Square acres of Yorkshire lastings and long-ells, wrecked argo spread out to dry. Geog. Jour. (R. G. S.), X. 196. cargo spread out to dry.

Longevity pay. See *pay1.
longfin (long fin), n. A common name given to Caprodon longimanus, a serranoid fish found in Australian waters.

longhead (long'hed), n. In anthrop., one who is dolichocephalous.

long-hop (long'hop), n. Same as *long-hopper. long-hopper (long nop), n. Same as *long-hopper.

long-hopper (long nop), n. In cricket, a ball bowled or thrown so that it reaches the batsman or wicket-keeper after a long flight from the pitch.—Rank long-hopper, a ball bowled much short of the proper length.

longhorn, n. 4. An English breed of cattle with long, drooping horns. They are large and rather clumsily built, but are good beef cattle and fair milkers. In the United States (long-gō-bar'dik), a. Same as

cattle and fair milkers. In the United States the name is also applied to the long-horned Texas cattle, now almost entirely replaced by breeds with shorter horns.—5. An old in-habitant, shrewd and knowing. [Slang, western U. S.]

ong-house (long'hous), n. A house of great length, particularly a communal dwelling of slightly longer than a pany of the Iroquois and of other North American tribes, or a communal house of the natives of longspur, n.—Painted longspur, Smith's longspur, Calcarius pictus, a bird found in the interior of North America: so named from its black, white, and yellowish markings. long-house (long'hous), n. A house of great

longicone, a. II, n. A long straight or slightly curved cephalopod shell with a slow rate of

growth, as in Orthoceras.

longicostate (lon-ji-kos'tāt), a. [L. longus, long, + costa, rib, + -atel.] Having long ribs,

as the wings of insects longilabrous (lon-ji-lā'brus), a. [L. longus, long, + labrum, lip, + -ous.] In entom., hav-

Longitude star, a term used to denote certain bright stars which have been selected for use in determining the longitude by the method of lunar distances—now nearly obsolete.—Mean longitude. See *mean3.

longitudinal, a.—Longitudinal aberration, magnetization. See *aberration, *magnetization.

II. n. In tron ship-building, one of the foregood after members in the fearning of a colluder.

double bottom, consisting of a plate, an inner angle-bar by which it is connected to the inner bottom, and an outer angle-bar by which it is connected to the outside plating. In war-ships, the plate and inner bar are usually continuous; in merchant vessels the plate and both bars are more frequently worked inter-costally between the frames. Also called longitudinal frame. See cuts under double *bot-

long-jack (long'jak), n. The Queensland vel-

low-wood, Flindersia Oxleyana. See Flindersia and yellow-wood. [Australia.] longjaw (lông'jâ), n. 1. A fish, the "lake herring," Argyrosomus prognathus, found in the Great Lakes.—2. A fish of the genus Tylosurus; a garfish.

a gartish.

long-jawed (lông'jâd), a. Extended; long-drawn: said of a long-winded person or a great talker; also (naut.), of a rope that has been stretched out until its lay is lengthened.

long-legged, a. 2. Having a great draft of water: said of a vessel of great length, or

long in comparison with its beam.

long-legs, n. 2. The European stilt, Himan-topus candidus.

Longmyndian (long-min'di-an), a. [Longmynd (see def.) + -ian.] In Eng. geol., noting a series of sedimentary strata, constituting Longobardus, in pl. Longobardi: see Lombard.

I. n. A Lombard.
II. a. Of the Longobards or Lombards;

Wengen beds and constituting one of the lower elements of the Upper Trias.

Longobardic (long-gō-bar'dik), a. Same as

Lombardic

long-pated (lông'pā"ted), a. Same as long-

Long-range forecast. See *forecast. longshucks (long'shuks), n. The loblolly-pine. Pinus Tæda.

There was a big chief on the range, an old longhorn called Abraham, and his lil ole squaw Sarah. They'd a boy in their lodge like me, another woman's kid, not a son, but good enough for them.

N. Y. Times, May 28, 1905.

ong-house (lông'hous), n. A house of great least postional and a shaft least because of the contained in such a glass. [Slang.]

ong-house (lông'hous), n. A house of great slightly longer than a haffy-spoon. See cut at least beautiful and the longer than a haffy-spoon. See cut at

long-timbers (long tim berz), n. pl. Naut., timbers in the cant-bodies which reach from the dead-wood to the head of the second futtock.

long-tom (lông'tom), n. In Sydney, a name given to Tylosurus ferox, a species of garfish which has both jaws prolonged to form a slender beak. E. E. Morris, Austral English.

long, + tao, ..., ing a long labrum.

longing-mark (lông'ing-mārk), n. a. [L. longus, long, palatial (lon-ji-pal'ā-tal), a. [L. longus, long, palatian, palate, + -alt.] Same as *dolichuranic. Turner.

longipalate (lon-ji-pal'āt), a. [L. longus, long, + NL. palpus + -atel.] In entom, having long palpi.

longi-godate (lon-ji-ped'āt), a. [L. longuse, long, + pes (ped-), foot, + -atel.] In entom, having long legs.

longitarsal (lon-ji-tār'sal), a. In entom., having long legs.

longitarsal (lon-ji-tār'sal), a. In entom., having long tarsi.

and longitude. See *circle.—

solution of longitude. See *circle.—

longitarsal (lon-ji-tār'sal), a. In entom., having long legs.

longitarsal (lon-ji-tār'sal), a. [L. longus, tale, policy legal longus legal longus legal longus legal longus lon

Longitude rime (naut.), a mnemonic couplet for naming the longitude when working a chronometer sight. It runs as follows:

Greenwich time best [ahead], longitude west; Greenwich time least [behind], longitude east.

Longitude star, a term used to denote certain bright stars which have been selected for use in determining the longitude by the method of lunar distances—now nearly obsolete.— Mean longitude. See *mean3.

longitudinal, a.—Longitudinal aberration, magnetization.

Element of the method of lunar distances—now nearly ongitudinal, a.—Longitudinal aberration, magnetization.

II. n. In iron ship-building, one of the foreand-aft members in the framing of a cellular double bottom, consisting of a plate, an inner angle-bar by which it is connected to the

sees that all bets are properly taken and paid. look-in (luk'in), n. 1. A hasty look or glance;

a short stay.—2. A chance of success. [Sporting slang.] Bell's Life.

Looking-glass bush, the bush karamu, Coprosma lucida: so called from its shining leaves.—Looking-glass ore. See *core1.

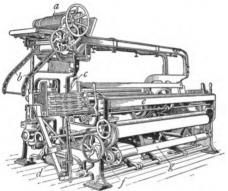
lookout, n. 6. In car-building, a glazed clearstory on the roof of a caboose, designed to enable the train-hands to obtain a clear view over the tops of the cars in a train.

small platform (luk'out-plat'fôrm), n. A small platform built high up on the forward side of the foremast for the use of the lookout;

lookout's-nest (luk'outs-nest), n. Same as crow's-nest.

lool (löl), n. In mining, a receptacle for orewashings.

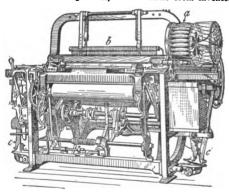
100ml, n.—Crompton loom, a power-loom, for weaving fancy designs, having a so-called 'head-motion'



Crompton-Knowles Loom.

a, head-motion for operating the harnesses or warp-threads; b, rack for sustaining the warp pattern-chain; c, shuttle-boxes; d, picker-stick; e, breast-beam; f, take-up; g, cloth-roller.

mechanism for raising and lowering the harnesses at will by means of levers operated upon by a pattern-chain consisting of shifting rollers or pegs: invented by William Crompton in 1837.—Cross-border Jacquard loom, a Jacquard loom built to weave handkerchiefs and other bordered fabrics with the least number of cards.—Northrop loom, an automatic loom invented



loom-weight (löm'wāt), n. A weight used in primitive looms to stretch the warp : frequently found in excavations.

One small tomb containing only red ware and a discoidal loom-weight.

J. L. Myres, in Jour. Hellenic Studies, XVII. 143.

loon², n. 2. A name used locally for several the grebes, including the large Podiceps cristatus and the little dabchick, P. minor; by sailors often in the form loom, for the murre,

Lomvia arra.

Lonvia arra.

100p¹, n. 2. (j) In brachiopods: (2) The calcareous support of the brachia which assumes various loop-like forms in the Terebratulidæ, a superfamily of the brachiopods. (k) The circuit formed by the path in a centifugal railway or loop-the-loop incline, around part of which the performer or passenger travels with head downward. See to *loop the loop. (l) In archery, the eye of a bowstring, which is slipped over and held by the neck when the bow is strung. (m) A recurved sand-spit which, having developed through the form of a hook, again joins the shore in a closed curve. Chamberlin and Saliebury, Geol., I. 341.

7. In phys., that region, in a standing wave system, for which the amplitude of vibration is a maximum: opposed to node, which is the region of zero amplitude.—Binocular loop. an in-

system, for which the amplitude of vibration is a maximum: opposed to node, which is the region of zero amplitude.—Binocular loop, an instrument consisting of two loops whose fields of view accurately superpose, giving a magnification of about four diameters: used in the examination of specimens.—Flemish loop. Same as Flemish eye (which see, under eye!).—Henle's loops, portions of the uriniferous tubules in the kidneys which are turned upon themselves, forming loops.—Hysteresis loop. See magnetic *loop.—Lenticular loop, nerve-fibers which pass between the lemiscus and lenticular nucleus.—Magnetic loop, the area inclosed between the ascending and descending arms of the curve of magnetization of a piece of iron or steel. Also called hysteresis—Potential loop, the antinode of a curve showing the fluctuations of electromotive force in an alternating-current circuit.—Bhelly loop, in brachiopod shells, one of the delicate calcareous ribbons, each in the form of a loop, attached by its two ends to the calcareous process on either side of the base of the latter and forming the brachial skeleton.—Trail-wheel loop, the aperture in the trail of a field-carriage into which the wheel enters.

100pl. v. t.—To loop the loop [an imitation of the phrase to shoot the chute], to pass round the inner side of a circular path or track set vertically: originally in a caron what was known, about 1840, as the centrifugal rail-way, of which such a loop formed a part. The car started at the top of an incline, and its momentum carried it at great speed around the loop. About 1900 the feat was revived, and was performed on a bicycle. In 1904 the upper part of the loop was removed, and the rider leaped the gap of open space. In 1905 this feat was successfully performed by a woman in an automobile. Other variations of the act have followed. See *autobolide.

G. E. Mogridge ('Old Humphrey's Walks in London, ... 1843') [asys]: "First a pail of water, next a hun-

the act have followed. See **autobotide.

G. E. Mogridge ('Old Humphrey's Walks in London, . . 1843') [says]: "First a pail of water, next a hundred-weight piece of metal, and, lastly, a human being . passed round the circle. . . The water was unsplit, the weight unmoved, and the attendant uninjured, though he passed round the upright circle, head over heels, performing a complete summerset, at the rate. . . of a hundred miles an hour." N. and Q., 9th ser., X. 366.

loop-bolt, n. 2. Naut., the bolt which passes through the loop and the lugs of the carriage when a howitzer is secured in position.

loop-cut (löp'kut), n. The puncturing of a

surface followed by a cross-cut so as to excise a piece. Also called retrosection.

looper² (lö'per), n. [D. looper, lit. runner (see loper).] In the plural, buck-shot of large

loopful (löp'ful), n. [loop¹ + -ful.] In bacteriol., the amount of liquid which can be held loosish (lös'ish), a. [loose + -ish¹.] Rather within the loop of platinum wire used for loose; tending toward looseness.

transferring cultures.

looping (lö'ping), n. In metal., the running together or fusing of ore when heated for cal-

loop-switch.

loop-stitch (löp'stich), n. 1. In needlework, an open stitch through which the needle draws the thread and leaves a loop on its way to the next stitch.—2. A stitch with loops; a kind of fastening stitch.

loop-switch (löp'swich), n. In teleg., a switch which introduces a loop into the main circuit or disconnects it (Secretal (L)).

or disconnects it. See switch, 2 (b). loor (lör), n. [Also loore, lore, lure, lower, etc.; origin and normal form unknown.] Foot-rot. [Prov. Eng.]

Loor, Loo, Lo, sb. Sore on a cow's hoof.

Gloucestershire Glossary, 1890. cose. I. a. 11. In chem., not combined with anything else: as, carbon dioxid loose in the blood. The word free is more commonly used in this sense.—12. In geol., incoherent, as unconsolidated sands. Geikie, Text-book of Geol. (4th ed.), p. 138.—13. In coal-mining, free at the ends or sides: applied to a workingplace when the coal has been previously mined on both sides: as, loose at one end, loose at one

on both sides: as, toose at one end, toose at one side, etc.—Loose card, a card of no value; hence, the best to discard. Hoyle.

II. n. 5. In Rugby foot-ball, that part of the play in which the ball travels freely from player to player, as distinguished from the scrimmage. N. E. D.—6. In mining, the end of a shift. Also loosing-time. When the end of a shift. Also loosing-time. When the end of a shift. Also loosing-time. When the workmen leave, the pit is said to be 'loosed out.' [Eng.]—7. In archery: (a) The act of releasing the bow-string and discharging the arrow. (b) The mode of performing this act, which differs among different peoples. In the primary or finger-and-thumb loose the arrow is grasped by the finger and thumb and pulled back against the string to draw the bow. The secondary and tertiary looses are similar, but the second and third fingers aid in pulling the bowstring. In the Mediterranean or finger-loose, in use by European archers, the arrow is held between the first and second fingers, and the string is pulled by the fingers, usually three, without the aid of the thumb. In the Mongolian loose the string is drawn by the thumb, usually by the aid of a drawing-ring. See *Arawing-ring.—Dull or wooden loose, a sluggish, poorly executed loose.—Fisher loose, a finger-loose with the first three fingers placed in a slanting direction on the string.—In the loose, in bulk; not made up in any particular shape for the trade: as, tobacco in the loose.—Keen loose, in archery, a quick, well-executed loose.—On the loose, with no restraint; ready for anything; 'on a spree'; 'on a loose keel.'

loose, v. t. 5. In archery, to release (the bow-string) after the bow is drawn, thus dis-charging the arrow.—To loose for sea, to loose saffs for getting under way; cast off gaskets, etc., and have the salls ready for spreading.

loose-fall (lös'fal). w. A lost opportunity for

harpooning a whale.

loose-shaft (lös'shaft), n. A barbed harpoonhead which fits into a socket of the foreshaft and which becomes detached when it strikes the game.

the game.

100Sestrife, n.—Bulb-bearing loosestrife, Lysimachia terrestris, of eastern North America, which sometimes bears no flowers, but has peculiar bublets in the axils of the leaves.—Oreoping loosestrife, the moneywort, Lysimachia Nummularia.—Fringed loosestrife, Steironema citiatum, of North America. It is closely related to the true loosestrifes, and has ovate leaves and strongly ciliate petioles.—Hyssop-loosestrife, Lythrum Hyssopifolia, of the Old World, naturalized in both North and South America. It is sometimes called grasspoly.—Southern loosestrife, Steironema tonsum, of the southeastern United States.—Spotted loosestrife, Lythmachia punclata, of Europe, adventive in America from Nova Scotia to New Jersey.—Trailing loosestrife, Steironema radicans, of the southern United States. It has a more or less decumbent habit.—Whorled loosestrife, Lythmachia quadrifolia. See **five-sisters* and cut under loosestrife.—Wing-amgled loosestrife, Lythrum alatum, of eastern North America. It has wing-angled stems.

100Sing-hand (18'sing-hand), n. In archery.

the hand which looses the bowstring in discharging the arrow, ordinarily the right hand: opposed to bow-hand. Also drawing-hand, shaft-hand.

loosing-time (lö'sing-tim), n. **★**loose, 6.

lop⁶ (lop), v. i.; pret. and pp. lopped, ppr. lopping. [Vaguely imitative, and associated with chop². Hence *loppy³.] To break in short, 'loppy' waves.

cination.

loop-lace (löp'lās), n. 1. A lace which has lop⁵ (lop), n. [lop⁵, v.] A short, 'loppy' sea.

a ground of very fine net.—2. A braided ornament formed of loops.

loop-pin (löp'pin), n. The pin that holds the wheel of a howitzer in place.

Short, loppy waves.

lopp's, lopp's, v.] A short, 'loppy' sea.

lop-comb (lop'kōm), n. In poultry, a comb that turns over to one side. This may be a merit or a defect, according to the breed or sex. The black Leghorn cock has an upright comb, the hen a lop-comb. a ground of very ninc ornament formed of loops.

loop-pin (löp'pin), n. The pin that holds the wheel of a howitzer in place.

loop-plug (löp'plug), n. In teleg., a device for neeting or disconnecting a loop-circuit; a compound,

NHCC₆H₅

 $C_6H_5C < \begin{matrix} NHCC_6H_5 \\ \parallel \\ N & CC_6H_5 \end{matrix},$

prepared by the distillation of hydrobenzamide; triphenylimidazole. It crystallizes in slender needles, melts at 275° C., and boils at a high temperature without decomposition.

blood. The word free is more commonly used lophiodermic (15'fi-5-der'mik), a. Of or pertaining to the lophioderm.

The median "lophiodermic raphe" of the limbs constitutes a sufficient apparatus of support to admit of the regeneration of the cord. The connective fibrous neural and aortic canals are powerless, with the organs they inclose, to supply the place of the missing cord or to regenerate it.

Jour. Roy. Micros. Soc., Feb., 1906, p. 35.

lophiodontous (lo'fl-ō-don'tus), a. [Gr. λόφιον, crest, mane, bristled back, + δδοίς (δόοντ-), teeth, + -ous.] Having hairy or bristly teeth. teeth, + -ous. Syd. Soc. Lex.

Syd. Soc. Lex.
Lophiomus (lō-fi-ō'mus), n. [NL., ⟨Gr. λόφιον, crest, + ὁμος, shoulder.] A genus of fishes of the family Lophidæ, found in rather deep waters of China and Japan and off Panama. It is allied to the goose-fish (Lophius), but has

fewer vertebræ.

lophocaltrop (lō-fō-kal'trop), n. [Gr. λόφος, crest, + E. caltrop.] A tetraxon spongespicule in which all of the rays are branched. Also lophotrizme.

Also opnoviene.

lophocephalic (lô'fō-se-fal'ik), a. [lophocephalus + -ic.] In anthrop., having a high head
with a sagittal crest; scaphocephalic. G.
Sergi (trans.), Var. of the Human Species, p. 43. serge (trans.), var. of the Human Species, p. 43. lophocephalus (lō-fō-sef'a-lus), n. [NL., ζ Gr. λόφος, crest, + κεφαλή, head.] In anthrop., a high head or cranium with a sagittal crest. lophocercal (lō-fō-ser'kal), a. [Gr. λόφος, crest, + κερκος, tail, + -all.] Pertaining to or characterized by lophocercy.

The second stage of development of the median fin system of Ichthyopsida is what I have called *lophocercat*, when it consists of continuous, or exceptionally of discontinuous folds, which do not include permanent rays, but may at about the close of this phase contain the numerous fine embryonic rays.

J. A. Ryder, in Rep. U. S. Fish Com., 1884, p. 987.

lophocercy (16'fō-ser-si), n. [Gr. λόφος, crest, f atuma, tail, + -y3.] A degenerate or embryonic condition of the caudal-fin elements of certain fishes.

lophocome (16'fō-kōm), n. [NL. lophocomus.] One of the lophocomi. Deniker, Races of Man,

lophocomi (lō-fok'ō-mi), n. pl. [NL., < Gr. λόφος, crest, tuft, + κόμη, hair.] In anthrop., races of man with tufted hair.

Ulotriches (Woolly-haired): Lophocomi (Tufted): Papuans; Hottentots.

Keane, Ethnology, p. 167. lophoderm (lō'fō-derm), n. [Gr. λόφος, crest, + δέρμα, skin.] In ichth., a crested or spiny

+ δέρμα, skin.] In ichth., a crested or spiny back.

Lophodermium (lō-fō-der'mi-um), n. [NL. (Chevallier, 1826), ⟨ Gr. λόφος, crest, + δέρμα, skin.] A genus of ascomycetous fungi of the family Hypodermataceæ, which resemble Hypoderma, but have filiform uniseptate spores.

L. Pinastri is a species common on pine-needles, causing casting. See *casting, 11, and *Hypoderma, 4.

Lophogaster (lō-fō-gas'ter), n. [NL., ⟨ Gr. λόφος, crest, + γαστήρ, belly.] The typical genus of the family Lophogastriææ. It contains but one species. L. typicus, known only from the North Atlantic and the South Atlantic, but not from intermediate positions. M. Sara, 1856.

Lophogastriæ (lō-fō-gas'tri-dē), n. pl. [NL., ⟨ Lophogaster + -idæ.] A family of schizopodous crustaceans. They have a large, more or less calcareous carapace, loosely covering the trunk, the first maxillipeds robust, with the exopod small or wanting, and the epipod large, the second maxillipeds with the terminal joint obtuse and the six following pairs of appendages uniform and ambulatory. The branchiæ are large and arborscent. It contains the genera Lophogaster, Ceratelepis, Gnathophausia, and Chalaraspis.

Lophogobius (lō-fō-gō'bi-us), n. [NL., ⟨ Gr. 24 convert de Null contains the genera Lophogaster, Ceratelepis, Gnathophausia, and Chalaraspis.

Lophogobius (1ō-fō-gō'bi-us), n. [NL., < Gr. λόφος, crest, + NL. gobius, goby.] A genus of gobioid fishes found in West Indian waters, A genus of

gobioid fishes found in West Indian waters, the head having a fieshy crest.

Lophophora (1ō-fof'ō-rä), n. [NL. (Coulter, 1894), < Gr. λόφος, tuft of hair, + φορός, bearing. A genus of plants of the family Cactacese. There is but one species, L. Williamsii, a native of southwestern Texas and northern Mexico, known to the Mexicans as peyote. It has a thick, fieshy subterranean stem, the part above ground appearing as a small, depressed, green, spineless cushion, growing singly or a few in a cluster and bearing pink flowers. The seedling plants bear spines, but the mature plants have none, the areolæ being occupied by tufts of soft, white hairs. The dried tops of the plant are used by several aboriginal tribes as an intoxicant. See *mescal-buttoms.

lophophore, n. 2. A pheasant of the genus Lophophorus; the Impeyan pheasant. See cut under Impeyan.

triphenylimidazote.

melts at 276° C., and boils at a high temperature decomposition.

lophioderm (1ō°fi-ō-derm), n. [Gr.λόφιον, dim. of λόφος, a crest, + δέρμα, skin.] The fold which forms the beginning of the vertical fins in the development of fishes.

The abdominal region comprises a short stretch of body between atriopore and anus, the termination of the alignment of the control of

lophophyte (lo'fō-fit), n. [Gr. λόφος, crest, + φυτόν, a plant.] In the sponges, a special appliance, such as a bundle or tuft of spicules, which serves for the attachment of the sponge

body to extraneous objects.

lophophytic (lō-fō-fit' ik), a. [lophophyte +
-ic.] Characterized by or possessing lopho-

phytes.

Lophopsetta (lō-fop-set'ä), n. [NL., < Gr. λόφος, crest, + ψηττα, flounder.] A genus of flounders which inhabit the Atlantic coast of the United States; the window-panes.

Lophoseridæ (lō-fō-ser'i-dē), n. pl. [NL., \(Lophoseris + \)-idæ.] A family of madre-porarian corals consisting of simple forms porarian corals consisting of simple forms with the wall neither perforated nor echinulated. It contains a score or more of genera, among them Lophoseris, Agaricia, Bathyactis, and Pachyseris.

Lophoseris (δ-fō-sē'ris), n. [NL. (Edwards and Haime, 1849), ⟨ Gr. λόφος, crest, + σῆρες (σηρικά), silks.] The typical genus of the family Lophoseridm.

Lophoseridæ.

lophospore (lō'fō-spōr), n. [Gr. λόφος, crest, plume, + σπορά, seed.] In phytogeog., a plant whose fruit is provided with a plume, usually the modified style, to assist in dissemination.

F. E. Clements.

lophotriane (lō-fō-tri'ēn), n. [Gr. λόφος, crest, + τρίαινα, trident.] Same as *lophocaltrop.

lophotrichic (lō-fō-trik'ik), a. [Gr. λόφος, crest, tuft (cilia), + θρίξ (τριχ-), hair, + -ic.] Having polar flagella in tufts of two or more, as in Spirillum (which see).

Fischer distinguishes two types of polar flagella, i. e. monotrichic, where they occur singly as in Pseudomonas, and lophotrichic, where they occur in tutts of two or more, as in Spirillum.

Chester. Manual of Determinative Bacteriol.. p. 6.

lophotrichous (lō-fot'ri-kus), a. [lophotrich-tc+-ous.] Having a tuft of several flagella at one end of the body, as certain bacteria.

Strict reliance cannot be placed on the distinction be-tween the Monotrichous, *Lophotrichous*, and Amphi-trichous conditions, since one and the same species may have one, two, or more cilia at one or both poles. *Encyc. Brit.*, XXVI. 52.

loppy³ (lop'i), a. [lop⁵ + -y¹.] Short; lumpy: said of the sea. See *lop⁵.
loq. An abbreviation of the Latin loquitur, he (or she) speaks. See *loquitur.

(or she) speaks. See *loquitur.

loquat, n.—Native loquat, in Queensland, Rhodomyrtus macrocarpa, a shrub of the myrtle family, bearing fruits about one inch long and yielding a hard, tough wood of a light-gray color.

loque (lök), n. [F. loque, a piece of cloth, a rag, tatter, also a disease of bees.] An infectious disease of bees caused by a small bacillus found in the intestines of the diseased insects and in the honey of the hive.

Neects and in the honey of the hive.

V. Lambotte finds that the Bacillus alvei, described by Watson-Cheyne and Cheshire as the cause of the "loque" disease of bees, is merely a variety of the widespread Bacillus mesentericus. The bacillus occurs in healthy hives, being found in the comb and in the intestinal contents of the bees. The characteristic appearance of the disease is brought about by the budding of the bacillus in the tissues of the larva.

Jour. Roy. Micros. Soc., Feb., 1903, p. 77.

loquent (lō'kwent), a. [L. loquens (loquent-), ppr. of loqui, speak.] Speaking; that speaks. [Rare.]

loquently (lo'kwent-li), adv. speech; in speech. [Rare.] By way of

An imposed secretiveness, . . . which comes of an experience of repeated inefficiency to maintain a case in opposition, on the part of the loquently weaker of the pair.

G. Meredith, One of our Conquerors, xil.

loquitur (lok'wi-ter). [L., 3d pers. pres. ind. of loqui, speak: see *loquent, locution.] 'He (she) speaks': in plays, a stage direction indicating that the person named enters and speaks: as, Enter Marlitt, loquitur. Abbre-

viated loq.

Loral shield. See *shield.

loral shield. See **snieth.
lorandite (lor'an-dit), n. A rare sulpharsenide of thallium, TlAsS₂, which occurs ir complex monoclinic crystals of a cochineal-red color: found with realgar at Allchar, Macedonia.

domin.

lord, n. 8. In astrol., a planet that exercises dominion: thus, the ruler of the sign or the cusp of the first house in a nativity is termed lord of the ascendant or of the geniture. See lord of the ascendant, under ascendant, 1.—9. lord. n. [A punning use, resting upon Gr. $\lambda o \rho \delta \delta c$, bent backward.] A hunchback. [Slang.]—As a lord or like a lord, in a superlative state of the condition lose-out (löz'out), n. In noted: as, to live like a lord, to live in luxury; drunk as a lord entirely drunk; to swear like a lord, to drink like a lord, etc.—Civil lord. See *civil.—Irish lord, a com-

mon name of various species of fish of the genus *Hemilepidotus (which see), especially H. Jordani.—Lord ordinary. See ordinary.—Lord Rector. See *rector.—Lords appellant, the five peers who superseded fichard II. In his government, and whom he superseded after a brief control of the government. Bouvier, Law Dict.—Lords in waiting. See waiting.—Lords of creation, men.—Naval Lord, one of the commissioners of the British Admiralty who is also a naval officer. See *admiralty. 1 (b).—Sea Lord. Same as Naval *Lord. See *admiralty. 1 (b).—Very lord, one from whom the tenant takes directly, and to whom he is very tenant. The lord paramount is not very lord to the tenants of a mesne lord.

lord-borough (lôrd'bur'ō), n. One who has quasi-manorial rights in certain English boroughs. N. E. D.

oughs. N. E. D.

lord-farmer (lôrd'fär'mer), n. One who holds an episcopal manor by a rent paid to the bishop. N. E. D.

lordotic (lôr-dot'ik), a. [lordosis (-ot-) + -ic.]

Pertaining to or affected with lordosis; caused by lordosis; a lordotic appropriate.

by lordosis: as, lordotic curvature.

lord-rectorship (lôrd-rek'tor-ship), n. The office of Lord Rector of a Scottish university. See Lord *Rector.

lordship, n. 5. In mining, a mineral property. lorenite (lö're-nīt), n. A yellow compound,

HOC, H4NI. SO3H, prepared by the action of iodine on 5-hydroxyquinoline-8-sulphonic acid. It crystallizes in needles or leaves, and melts

and decomposes above 210° C.

lorenzenite (lō-ren'ze-nīt), n. [Named after J. Lorenzen, a mineralogist of Copenhagen.] A rare silicate containing titanium, zirconium, and sodium (perhaps Na₂(Ti, Zr)₂Si₂O₇), occurring in violet to brown needle-like orthorhombic crystals: from southern Greenland. loretine (lor'e-tin), n. A yellow, very stable,

crystalline compound, HOC₀H₄NI. SO₃H, pre-pared by the action of iodine on 8-hy- lotio (lo'shio), n. droxyquinoline-5-sulphonic acid: used as a lotion.—Lotio flava. substitute for iodoform.

lorettism (lō-ret'izm), n. [lorette + ism.]
The condition or characteristics of the lorettes. The brilliant ball given by the aristocracy of the Parisian lorettes—for even lorettism has its aristocracy.

Pall Mall Gazette, Sept. 9, 1865.

lorica, n. 4. An old name for a paste or lute with which vessels were coated in order to protect them when very strongly heated.—
5. In bot.: (a) Same as testa, 2. [Obsolete.]
(b) The silicious covering of the frustules of diatoms.

Loricati (lor-i-kā'ti), n. pl. [NL.: see loricate.] A suborder of fishes characterized by the development of a bony stay from the suborbital bones backward across the cheek: orbital bones backward across the cheek: commonly known as the mail-cheeked fishes.

lorilet (10'ri-let), n. [Dim. of lory.] Any one of several small parrots of the genus Cyclopsittacus and allied genera, found in New Guinea, North Australia, and some of the adjacent islands.

Lorinseria (lō-rin-sē'ri-ā), n. [NL. (Presl, 1852), named for Gustav Lorinser, a Bohemian physician (1811–1863).] A genus of polypodiaceous ferns allied to Woodwardia but well disaceous ferns allied to Woodwardia but well distinguished by its dimorphous fronds and copious areolate venation. There is a single species, L. arcolata (Woodwardia angustifotia), of the eastern and southern United States. It grows 2 feet or less high, and has green-stemmed, deeply pinnatifid, ovate-deltoid, sterile fronds, much resembling those of the sensitive fern, and fertile fronds longer and stiffly erect, with dark castaneous stipe and rachis and much contracted pinnse. The linear sori are borne as in Woodwardia.

loriped (lor'i-ped), n. [Also loripede; L. loripes (-ped-), (lorum, a strap, thong, + pes (ped-), foot.] A bivalve mollusk which has a very strap-shaped or vermiform foot, as Lucina.

loro (lō'rō), n. [Sp., a parrot, a parrot-fish. Cf. lory.] A Spanish name of different fishes of the genus Scarus.

lorry, n. 8. A trolley for carrying coal, ore, etc., upon an overhead railway. Also written larry.

lorum, n. 2. In entom., same as lora2 and lore4, 4.

lory, n. 2. In Africa, the white-crested tura-koo, Turacus corythaix or T. albo-cristatus, one of the plantain-eaters: probably so called on account of its green color and high crest,

lose-out (löz'out), n. In faro, a card that loses the last time out of the box.

lossenite (los'e-nit), n. [G. lossenit (1894), named after Professor C. A. Lossen of Berlin.] A mineral near scorodite in form, but consist-ing of lead sulphate and ferric arseniate with water: from Laurium, Greece.

phrase in a policy signifying that the risk is assumed whether or not the vessel insured is lost at the time the policy is made, provided that neither the insured nor the insurer has at the time any knowledge or information of the fact not equally known or available to the other.—

The lost tribes. See $\star tribe$. ot, n. 10. An individual person: usually with bad. [Colloq.]

I'm a bad lot, I know,—well, an idle lot—I don't think I am a bad lot. Mrs. Humphry Ward, Marcella, iv. 5. 345.

lam a bad tot. Mrs. Humphry Ward, Marcella, iv. 5. 345.

lotase (1ō'tās), n. [Lotus + -ase.] A ferment found in the plant Lotus arabicus. It decomposes lotusin (a glucoside) into prussic acid, glucose, and a yellow pigment, lotofishis.

Lotella (1ō-tel'š), n. [NL., dim. of Lota.] A genus of gadoid fishes found in the deep seas.

lottform (1ō'ti-fōrm), a. [L.

lotus, lotus, + forma, form.]
Similar to the lotus: noting
a large class of decorative
motives found in Egyptian

[L.] A lotion.—Lotio flava. Same as yellow *lotion.—Lotio nigra. Same as black *lotion.

as black *lotion.

lotion, n. 4. Drink (humorously conceived as a 'wash' or 'remedy'). [Slang.]—

Black lotion. Same as blackwash.— Yellow lotion. Same as yellow wash (which see, under wash).

lotoflavin (lō'tō-flav-in), n. A yellow coloring-matter, $C_{15}H_{10}O_6$, obtained by the hydrolysis of the glucoside lotusin from the leaves of Lotus arabicus.

lotophagous (lō-tof'a-gus),
 a. [Gr. λωτοφάγος: see Lotophagi.] Lotus-eating; pertaining to or characteristic of the Lotophagi.

Egyptian Lotiform Decoration.

SAV

lotophagously (lo-tof'a-gus-li), adv. In the manner of lotus-eating or of the lotus-eaters. lotur (lō'tūr), n. Same as lodh-bark.

lotur (10 tur), n. same as tout-our leaves a form equiv. to lodh, + -id + -ine².] A yellowish-brown amorphous alkaloid contained in Indian lotur-bark, Symplocos racemosa. Its solutions in mineral acids exhibit a strong blue-violet fluorescence.

loturine (lö'tū-rin), n. [lotur + -ine².] A colorless alkaloid contained in Indian loturbark, Symplocos racemosa. It crystallizes in lustrous prisms, melts at 234° C., and sublimes.

otus, n.—American lotus, Nelumbo lutea. See Nelumbo.—Egyptian lotus. (b) The sacred lotus, Nelumbo Nelumbo.—Eyptian lotus, the lotus-tree, Zizyphus Lotus.—Indian Lotus, the sacred lotus.—Lotus capital or column. See *capital3.—Sacred lotus. (a) See sacred and lotus, 1. (b) Nelumbo Nelumbo, a native of the warmer parts of Asia and of Australia, apparently not of Egypt, though long cultivated there and often called Egyptian lotus. It is a superb plant with large, showy pink or sometimes white flowers. It is very common in cultivation, and figures extensively in Indian mythology.—Lotus ware. See *ware2.

lotus-bird (lotus-berd), n. The Australian jacana, Parra (Hydralector) gallinacea, a small water-bird with enormously long toes, related to the rails: so named from being found about the lotus and water-lily. Its long toes enable it to run over the leaves of the water-lilies.

lotusin ($1\bar{o}$ 'tu-sin), n. [Irreg. $\langle lotus + -in^2.$] A yellow glucoside, $C_{22}H_{19}O_{10}N$, contained in Lotus arabicus, a poisonous leguminous plant indigenous to Egypt. It yields hydrocyanic acid, d-glucose, and lotoflavin when hydrolyzed.

lotus-lily (lo'tus-lil'i), n. See *lilu.

lou (15 or lou), n. [Chin.] In China, a two-story house, or the upper story of such a house; also, a tower, of square or oblong section and one, two, or three stories in height,

the angles of a city wall.

Among the later representatives of the t'ai are the towers of the great wall, which are built of stone with arched doors and windows—the Chinese would seem always to have employed the arch in stone architecture—the storied buildings dominating the gateways and angles of the city walls, often used to store arms, and the observatory of Peking, which is also a square tower mounted upon the city wall. When the tower is planned of oblong section, broader than it is deep, it is technically called a "low." S. W. Bushell, in Smithsonian Rep., 1904, p. 679.

Lou. An abbreviation of Louisiana.

loubra, n. Same as *lubra.

louche (lösh), a. [F. louche, OF. lousche, < L. lusca, fem. of luscus, one-eved.] Squinting; not straightforward; sinister.

There is something louche about him, which does not accord with the abandon of careless intimate intercourse.

Lady Morgan, Autobiography, p. 318. N. E. D.

louden (lou'dn), v. [loud + -en1.] I. intrans.
To become loud or louder: also figuratively.

Parts of myself, the perfume of my mind,
Days that seem farther off than Homer's now
Ere yet the child had loudened to the boy.

Lovell, The Cathedral, 1. 17.

II. trans. To make loud or louder: as, to louden one's voice.

lougheen (loch'en), n. [lough1 + -een, Ir. -in, dim. suffix.] A small lough.

Louisianian area. Same as austroriparian

Louis Philippe porcelain. See *porcelain¹. loukoum (18-köm'), n. [A French spelling of Turk. luqum, a name for various kinds of small cake and confections, lit. mouthfuls, pl. of loqua, a mouthful.] Fig-paste. lound (lound), a. Same as lown².

loup³, n. 2. A sort of grapple used in ancient love's-test (luvz'test), n. The plantain-leaved times by the defenders of a fortress to seize everlasting, Antennaria plantaginifolia. and lift a battering-ram and thus prevent its love-vine (luv'vin), n. Any species of dodder action.

loupe, n. 2. A lens or magnifying-glass.
 Optical Jour., Sept., 1903, p. 384.
 Loup Fork beds. See *bed1.

Optical Jour., Sept., 1903, p. 384.

Loup Fork beds. See *bed1.

Loupthu (loup'thö), n. pl. [Samoyed f] Stockings made of fawn-skins, worn by the Samoyeds.

As the result of his experience, Mr. Jackson fitted out As the result of his experience, Mr. Jackson fitted out As the result of his experience, Mr. Jackson fitted out As the result of his experience, Mr. Jackson fitted out As the result of his experience, Mr. Jackson fitted out As the result of his experience, Mr. Jackson fitted out I loud on the look pretty in it, lovey, indeed you don't.

You don't look pretty in it, lovey, indeed you don't.

Fielding, Letter Writers, etc., i. 5.

moyeds.

As the result of his experience, Mr. Jackson fitted out his party for Franz Josef Land with furs cut in London on the Samoyede pattern. These models have evidently come to stay, for one of the London equipment stores now advertises soviks, malitzas, loupths and pimmies.

Jour Franklin Inst., May, 1904, p. 223.

loutron (lö'tron), n.; pl. loutra (-trä). [Gr. \(\lambda \text{Loyd's and *free-board.} \)

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loutron (lö'tron), n.; pl. loutra (-trä). [Gr. \(\lambda \text{Loyd's and *free-board.} \)

lowell, v. t. 2. To serenade with noise after writers, etc., 1. 5.

L. R. C. P. An abbreviation of Licentiate of the Royal College of Physicians.

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L. R. C. S. An loutron (lö'tron), n.; pl. loutra (-trš). [Gr. λουτρόν (also λουτρών), < λούειν, wash, bathe.] In Gr. antiq., a bathing-place; a bath: sometimes a solid structure in masonry, like that discovered at Salamis in Cyprus in 1890; more often a large shallow terra-cotta basin

with or without a support.

loutrophoros (lö-trof'ōros), n.; pl. loutrophoros
(-roi). [Gr. λουτροφόρος,
bringing water, < λουτροφό,
a bath, water for a bath, + -φορος, < φέρειν, bear.] In Gr. antiq., a vase used In Gr. antiq., a vase used to carry water to a bath, especially the nuptial bath. It is an amphora of a special form, both body and neck being much elongated. The subjects found upon black-figured loutrophorol are usually funereal; those upon red-figured loutrophorol have reference to marriage. A loutrophoros, sometimes carved in marble, was frequently placed upon the grave of a young person who died unmarried.

louver-work werk), n. Same as louver, 3.

lovably (luv'a-bli), adv. In a lovable way.

He imagined her coming towards him in her radiant majesty, made so lovably mor- (From "Die Attischen Grabtal by her soft hazel eyes.

George Eliot, Romola, xvii.

lovanenty (luv-a-nen'ti), interj. [Also lovenenty, loveanendie; an extension of love anloxic (lok'sik), a. [Gr. λοξός, slanting, oblique, end (see an-end, 3), that is, 'almighty love!' + -ic.] Distorted; drawn to one side.

'good gracious!'] prise. [Scotch.]

Lovenenty me! but she'll hae gi'en ye anither kind o'a kiss than an auld wife like me. Crockett, Raiders, xxi. which surmounts a city gateway or ornaments love, n. 12. In Tasmania, the blue-creeper, the angles of a city wall.

love¹, n. 12. In Tasmania, the blue-creeper, Comesperma volubile.—Lesbian love, lewd practices between women.—Love all. See love¹, n., 9. love-entangle, love-entangled (luv'entang'gl, -gld), n. 1. The wall-pepper or mossy stonecrop, Sedum acre.—2. The virgin's-bower, Clematis Vitalba.

10ve-grass, n. In the southern United States, one of several species of *Eragrostis* forming part of the natural pasturage. *E. secundifora* is designated as purple lovegrass, *E. Elliottis* as shining love-grass, and *E. glomerata*

as many-flowered love-grass.

love-hood (luv'hud), n. 1†. Same as love-n., 8. It was worn by persons in mourning.

I shall make no more dark things; after three months black silk is worn with love hood.

Mrs. Delany, to Mrs. Dewes, in Life, p. 478. N. E. D. 2. A light hood made of silk and gauze, worn in colonial days in New York. A. M. Earle, Costume of Colonial Times, p. 133. love-in-a-chain (luv'in-a-chan'), n. The re-

flexed stonecrop, Sedum reflexum.

love-in-winter (luv'in-win'ter), n. The pipsissewa or prince's-pine, Chimaphila umbellata.

Lovejoy china. Same as anti-slavery *china. lovelihead (luv'li-hed), n. Loveliness; the loxonemoid (lok-sō-nē'moid), a. quality of being lovely.

The re-flexum reflexum arched whorls bearing sigmoid a long aperture. It ranges from the Trias and is particular in the Carboniferous.

lovelihead (luv'li-hed), n. Loveliness; the loxonemoid (lok-sō-nē'moid), a. quality of being lovely.

love-worthiness (luv'wer'THi-nes), n. quality of being worthy of love.

lowbell, v. t. 2. To serenade with noisy, rough music. See charivari.

low-doors (lo'dorz), n. pl. In mining, the Society of Apothecaries. lowest of two or more landings in a shaft. L. S. B. An abbreviation of London School-Barrowman, Glossary. [Scotch.]

löweite, n. See *loeweite. Lower Helderberg group. See *group1. Lowestoft decoration, porcelain. See *decoration, armorial *porcelain.

löwigite, n. See *loewigite.

Lowitz, arcs of. In meteor., two short oblique bands of rainbow colors attached to the par-helia of the halo of 22° and inclined to the horizontal parhelic circle: due to sunlight passing through ice prisms whose axes are L. Th. An abbreviation of Licentiate in Theoscillating about a normal vertical position. ology.

First observed by Lowitz at St. Petersburg in Lu. The symbol for *lutecium. 1790.

low-pitched (lō'picht), a. 1. Pitched in a (b) of Liberal-Unionist.
low key, as a voice.—2. Of a low or degraded luan (lō-b'ö), n. [Hawaiian luan, boiled herbs nature: as, low-pitched desires.—3. Having (kalo-leaves), the leaf of the kalo, the petal very little angular elevation, as a roof.—4. of a plant.] In the Hawaiian Islands, a dish or dinner of boiled herbs with additions.

lowrie, n. Another form of lory (which see), Loxian² (lok'si-an), n. [Gr. Λοςίας, an epithet of Apollo, commonly supposed (perhaps wrongly) to be connected with λοςός, oblique, ambiguous.] An epithet of Apollo.

An exclamation of sur
Loxoceras (lok-sos'e-ras), n. [NL., ζ Gr.

λοξός, slanting, + κέρας, horn.] A genus of
fossil nautiloid cephalopods of the family

Loxoceratidæ (suborder Cyrtochoanites), in
cluding orthoceracones and cyrtoceracones
having highly nummuloidal central siphuncles having highly numuloidal central siphuncles with short and crumpled funnels. It ranges from the Lower Silurian to the Carboniferous. loxodograph (lok-sod'ō-grāf), n. [Gr. λοξός, slanting, oblique, + ὁδός, way, + γράφειν, write.] An apparatus for electrically recording, by the aid of photography and magnetism, the actual course of a ship.

loxodromically (lok-so-drom'i-kal-i), adv. In a loxodromic curve or line; according to loxodromic rules.

Ioxomma (lok-som'ä), n. [NL., ζ Gr. λοξός, slanting, oblique, + δμμα, eye.] A genus of stegocephalian Amphibia from the coal-measures. See *Gastrolepidotidæ.

ures. See *Gastrolepidondæ.

Loxonema (lok-sō-nō'mṣ), n. [NL., \langle Gr. $\lambda o 5 \phi_s$, oblique, $+ \nu \bar{\eta} \mu a$, thread.] A genus of extinct platypodous gastropods of the family Pyramidellidæ, which have turreted shells with arched whorls bearing sigmoid growth-lines and a long aperture. It ranges from the Silurian to the Trias and is particularly abundant in the Carboniforous

The forget-me-not, loxophthalmus (lok-sof-thal'mus), n. [Gr. λοξός, oblique, + όφθαλμός, eye.] Same as equint.

er: as. to overme (luv'mē), n. The forget-me-not, Myosotis palustris.

m, Ir. -īn, love-nie (luv'pē), n. The forget-me-not, loventhalmus (lok-sof-thal'mus), n. [Gr. λοξός, oblique, + ὁφθαλμός, eye.] Same as aguint.

love-pea (luv'pē), n. The Indian licorice or rosary-pea, Abrus Abrus.

loverliness (luv'ér-li-nes), n. The condition and quality of a lover; loverhood. G. Merediting of kinds of lover's-pride (luv'érz-prid'), n. The heart's-ease or lady's-thumb, Polygonum Persicaria.

love-shell (luv'shel), n. A species of Cy præa.

+-oid.] Resembling or related to Loxonema.

loxophthalmus (lok-sof-thal'mus), n. [Gr. λοξός, oblique, + ὁφθαλμός, eye.] Same as aguint.

loxotic (lok-sot'ik), a. [Gr. λοξότης, obliquity (< λοξός, oblique), +-ic.] Same as *lozic.

loyalist, n. 2. [cap.] Specifically, in the American Revolution, a Tory.

lozenge, n.—spherical lozenge, in geom., an equilateral—Ursine lozenge, the triangular area of the cerebral cortex between the cruciate and precruciate fissures in certain carnivora, especially the bear.

Loy. Ldp. Contractions (a) of Ladyship; (b)

the bear.

Lp., Ldp. Contractions (a) of Ladyship; (b) of Lordship.

L. P., l. p. An abbreviation of low-pressure.

L-piece (el'pēs), n. A piece of metal tubing bent to a sharp turn; an elbow.

L. P. M. An abbreviation of long particular

L. P. S. An abbreviation of Lord Privy Seal. L. B. An abbreviation of Lloyd's Register. See

L. S. A. An abbreviation of Licentiate of the Society of Apothecaries.

L. T. An abbreviation (a) of lira Turca, the

Turkish pound; (b) [l. \dot{c} .] of long ton. Lt. Batt. An abbreviation of light battery.

Lt.-Col. An abbreviation of Lieutenant-Col-Lt.-Gen. An abbreviation of Lieutenant-Gen-

eral Lt.-Gov. An abbreviation of Lieutenant-Gov-

L. U. An abbreviation (a) of Liberal Union;
(b) of Liberal-Unionst. L. U.

A luau is a square meal with reast pig and poi in it.

Hartford (Conn.) Courant, quoted
[N. Y. Times, April 27, 1906.

Same as lubber-line. Lubber's mark. lubber-fiend (lub'er-fend), n. In folk-lore, a guous.] An epithet of Apollo.

The coffer-lid house-elf or brownie who repays tolerance or kindness by doing the harder part of the housework, in the night, for his benefactors.

Browning, Sordello, i. 80. (lok'sik), a. [Gr. λοξός, slanting, oblique, future existence of lubbers: a kind of nautical purgatory.

lubber-lift (lub'er-lift), v. t. In lumbering, lucigraph (lū'si-graf), n. [L. lux (luc-), light, to raise the end of a log by means of a pry, and by the use of weight instead of strength. Lubish (lö'bish), a. [G. lübisch, < Lübeck.] Of or pertaining to Lübeck (Lubeck), one of the Hanse towns of North Germany: applied particularly to certain moneys of account in mercantile use there: as, the mark Lubish; the shilling Lubish.

lubra (16"brs.), n. [Also loubra, leubra; native Australian, but prob. orig. Tasmanian, from Tasmanian loa or lowa, woman.] A native Australian woman: originally used in Tasmania, but later adopted in Australia south of the Murray. North of the Murray the term gin was in use. Both terms are now used without geographical restriction. H. Kingsley, Geoffrey Hamlyn, xxxix. E. E. Morris

Morris.

1 ubrication, n.—Forced lubrication, lubrication in which oil is furnished to the bearings under pressure.—

Splash lubrication, a method of supplying oil to the bearings of an engine-mechanism, by inclosing the crank and connecting-rod in an oil-tight case filled with oil to such a level that the crank dips into it and spatters the oil upward over the surfaces to be lubricated: much used in small high-speed motors, and especially in engines for motor-cars.

Inbricator, n.—Displacement lubricator, a device for feeding oil in which the difference in specific gravity of the oil and water is utilized to regulate the feed.

Lucan (lu'kan), a. [Also Lukan; \langle L. Lucas, Luke, + -an.] Of or pertaining to Luke the

Evangelist.

Lucania (lū-kā'ni-ṣ), n. [NL., a meaningless term.] A genus of fishes of the family Pacilidæ, found in the coastwise swamps of the eastern United States.

to the family Lowaucasian (lū-kā'zi-an), a.

founded by Henry Lucas (d. 1663).

Extract.

The opportunity which gave to the world the 'Philosophie Naturalis Principia' was not due to the state subvention of the deputy mastership of the mint, but to the modest provision of a professorship by one Henry Lucas, of whose plous benefaction Cambridge has made such wonderful use in her Lucasian professors.

Science, Oct. 16, 1903, p. 490.

All Lucullian (lū-kul'ē-an), a. [L. Lucullianus, lucullian (lū-kul'i-an), a. [L. Lucullianus, lucullian (lū-kul'it), n. [L. Lucullianus, lucullian (lū-kul'an), n. The domain of lucumony (lū'kū-mō-ni), n. The domain of lucumony (lū'kū-mō-ni), n. The domain of lucumony (lū'kū-mō-ni), n. The best of lucullian
lucca (lök'kä), n.

lucently (lu'sent-li), adv.

lucently (lu'sent-li), adv. Clearly; translucently; luminously.

lucerne, n.—Native lucerne, in Australia, Sida retusa, a weed of the mallow family, which yields a fiber somewhat like jute. Also called paddy-lucerne. See Sida, 1.—Paddy-lucerne. Same as native *lucerne.—Sand-lucerne, Medicago media, a deep-rooted perennial forage-plant, closely related to lucerne, of which it is sometimes regarded as a variety. It is less stiff in habit, its flowers are sometimes yellow, and its pods less colled. In Michigan it has proved to possess the great advantage of enduring the winters.—Tree-lucerne, Medicago arborea, a shrubby alfalfa cultivated in the Old World from ancient times, now wild in Greece. It serves for forage and as a bee-plant.—Yellow lucerne, Medicago falcata, botanically close to alfalfa and sand-lucerne, but valued only on dry and barren solls.

lucerne-dodder (lū-sern'dod'er), n.

Lucianic, Lucianical (lu-shi-an'ik, -i-kal), Of or pertaining to Lucian, a Greek satirist of the second century, or characteristic of his

writings and style. Lucianist2 (lu'shian-ist), n. An imitator of Lucian, the Greek satirist.

lucible (lū'si-bl), a. [LL. lucibilis, < lucere, be light: see lucent.] Emitting light; lucent. luciferase (lū-sif'e-rās), n. [L. lucifer, light-bringing, + -ase.] One of the two special substances by the reactions of which light is

| Laciferase (lū-sif'e-rās), n. [L. lucifer, light-lucibund; (lū'di-bund), a. [L. lucibundus, bringing, + -ase.] One of the two special substances by the reactions of which light is

| N. E. D. | supposed to be produced by fireflies. It is supposed to be of the nature of an enzym and to exist in the form of minute granules only in the luminous organs. The other substance, luciferine, exists in the blood, and light is produced as the blood enters the luminous area.

It is affirmed by Dubois that luminescence is due to the sactions of two special substances, luciferase and lucierine.

Encyc. Brit., XXIX 499.

luciferine (lū-sif'e-rin), n. [L. lucifer, light-bringing, + -ine².] See *luciferase.

luciferose (lū-sif'e-rōs), n. [L. lucifer, light-bringing, +-ose.] Same as *luciferase.

Lucifuga (lū-sif'ū-gā), n. [NL., fem. of L. lucifugus, shunning light: see lucifugus.] A genus of blind brotuloid fishes inhabiting cave streams in Cuba. These flahes are not related to the blind cave-fishes of the United States, but are derived from marine types.

lucifugal (lū-sif'ū-gal), a. Same as lucifugous.

+ Gr. γράφειν, write.] An apparatus for displaying the letters and numbers of the inter-

playing the letters and numbers of the international maritime code: used in signaling. It consists of a powerful electric light, the rays of which are focused by suitable lenses, and of a series of stencils, manipulated by a keyboard, placed in the path of the rays. The letters and numbers are projected on a screen. Electricity, XV. 226.

luciite (lö'si-it), n. [G. luciit (Chelius, 1892), (Luci(berg), Hesse, Germany, + -it, E. -ite².] In petrog., a fine-grained phaneric, igneous rock, composed of lime-soda feldspar and hornblende, sometimes with a little quartz. The texture is panidlomorphic to hypidiomorphic granular. Luciite is the same as malchite and orbite, aplitic forms of diorite.

lucimeter, n.—Bellani lucimeter, a form of actinometer devised by Bellani, consisting of a bright and a
blackened glass bulb connected by a glass tube and partly
filled with water. The higher temperature of the black
bulb causes the liquid within it to evaporate more
rapidly than that in the bright bulb, where the surplus
is condensed.

lucinoid (lū'si-noid), a. [Lucina, 2, + -oid.] Related to or resembling the pelecypod genus

Luciocharax (lū-si-ok'a-raks), n. [NL., < L. lucius, a pike, + Gr. χάραξ, a sea-fish (see Characinus).] A genus of fishes of the family Characinidæ, found in streams near Panama. lucium (lū'si-um), n. [NL., < L. lux (luc-), light.] The name given by Barrière to a supposed new chemical element obtained from posed new chemical element obtained from the yttria of monazite. Its existence has not

been confirmed.

lucivee (lū-si-vē'), n. [Also lucifee; a corruption (simulating Lucifer) of loup-cervier, q. v.] The Canada lynx, Lynx canadensis.

eastern lucanid (lū-kan'id), n. and a. L. ...
ber of the coleopterous family Lucanidæ.

II. a. Having the characters of or belonging to the family Lucanidæ.

Lucasian (lū-kā'zi-an), a. Pertaining to or founded by Henry Lucas (d. 1663). See the extract.

Licinius (see def.).] Of or pertaining to L. Licinius (see def.). Whose luxurions banquets became proverbial.

The lucife's eyes and fitteen feet of the sample of the log to within fitteen feet of the log to within fit

It [Santa Tarsilla] was a dreary place at the best of times; antiquaries said that the sea had receded nearly a mile since the days when the Etruscan pirates had sailed from that bay, and Etruscan lucomomies had had their fortnesses and their tombs away yonder where the shoreline grew dusky with thickets of bay and resemary and the prickly marucca, or holy thorn, so common here.

Ouida, In Maremma, it.

luderick (lū'de-rik), n. [Also ludrick; aboriginal Australian (Gippsland in Victoria).] A local variety of the Australian blackfish, Incisidens simplex. E. E. Morris, Austral Eng-

Ludian (16'di-an), n. [Named from Ludes, in the Montagne de Rheims, France.] In geol., the uppermost division of the Eocene Tertiary in the Paris basin, consisting of gypsum and marls, and containing mammalian remains in great abundance (dormice, opossums, pachy-derms, and various carnivora which partly have marsupial characters). Also called Pri-abonian and Paris gypsum.

[L. ludibundus,

ludicrosity (lū-di-kros'i-ti), n. Ludicrous-

Ludisia (lū-dis'i-a), n. [NL. (A. Richard, 1825), of unknown significance.] A genus of monocotyledonous plants of the family Orchidaceæ. See Hæmaria.

Ludolf number, π . Same as Ludolphian number (which see, under number).

ludrick (lö'drik), n. See *luderick.

1. u. e. An abbreviation of left upper entrance. luf, n. and v. A simplified spelling of luff.

luff?, n.—To hold the luff, to keep the vessel's sails shivering.—Rigging-luffs, a tackle used for setting up lower rigging.—To choke the luff. See *choke1.—To hold a good luff, to steer so as to keep a vessel's sails trembling along the leeches, or along the luffs.

luff?, v. I. trans. 2. To lift (the boom of a derrick).

lumbering

II. intrans.—To luff and lie, to luff and remain close to the wind.—To luff and touch her, to luff until the sails shake.

luff-cringle (luf'kring'gl), n. An iron ring spliced into the bolt-rope of a gaff-sail at the

junction of the head and luff.
luffing-match (luf'ing-mach), n. In yacht-racing, a struggle to get to the windward of a competitor.

lug¹, n.—Standing lug, a lug-sail that does not require the yard to be lowered and shifted to leeward of the mast in tacking.

lug², n.— Eccentric lug, a seat or projection on an eccentric-strap to which the eccentric-rod is attached.

eccentric-strap to which the eccentric-rod is attached.

lug-chair (lug'char), n. A high-backed easy-chair with side-pieces for the head.

luge² (lö'ge), n.; pl. lugen (-gen). [Swiss (Grisons).] A Swiss form of coasting-sled of small size, steered by short iron-pointed sticks.

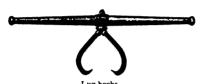
Two of these lugen are often combined into a bob-sled with steel frames of tubular construction and fitted with a wheel steering apparatus.

a wheel steering apparatus.

The "luge" is a small sled peculiar to the Grisons (Switzerland), which recalls the schlittes of the Vogges, and which up to the present has been steered by hand through the intermedium of short, iron-pointed sticks.

Sci. Amer. Sup., April 15, 1905, p. 24488.

lugar, luggur, n. Same as lugger². lughooks (lughuks), n. pl. In lumbering, a pair of tongs, attached to the middle of a short bar, used to carry small logs.



lug-pole (lug'pōl), n. A pole on which a kettle is hung over a fire.
lujaurite (lö'you-rīt), n. [Lujaur mountain, Kola Peninsula, Finland, + -ite².] In petrog., a variety of nephelite-syenite composed of tabular alkali-feldspars in parallel arrangement, with nephelite, abundant ægirite in thin needles, and variable amounts of endialyte. Ramsay, 1894.

lul, v. and n. A simplified spelling of lull.
lulab (lö-läb'), n. [Syr. lulaba.] A green palmnamed from Lucca (Lucutius.] Same as *Lucutian.

printed in imitaluculite (līp-kul'īt), n. [L. Lucutius + -ite².]
Same as *Lucutiean marble or lumachelle.

Clearly; transluLucumony (lū'kū-mō-ni), n. The domain of a Lucumo, or ancient Etrusean prince.

Lucumony (lū'kū-mō-ni), n. Hence—3†. Good night; good-by.

Duke. You can fool no more money out of me at this throw: if you will let your lady know I am here to speak with her, . . . it may awake my bounty further.

Clo. Marry, sir, lullaby to your bounty till I come cain.

Shak., T. N. v. 1.

lull-bag (lul'bag), n. A canvas chute used on whale-ships for guiding the blubber into

Lullianist (lul'yan-ist), n. A Lullist.
lulliloo (lul-i-lö'), v. t. and i. [Imitative; cf. halloo, hullabaloo, etc.] To utter a shrill cry, with vibrations made by hitting the mouth with the hand: used in reference to African aborigines.

The women [of a tribe in northwestern Rhodesia], when saluting an important stranger, do so by lullilooing, a word coined by Livingstone to express a peculiar shrill scream, the sound being made to vibrate by hitting the mouth with the hand. Geog. Jour. (B. G. S.), XVIII. 74.

lulu (15'15), n. [W. African.] A cyprinoid fish, Labeo longipinnis, which reaches a large size: found in the Kongo river. lumbago, n. 2. Same as *chine-gall. lumbago (lum-bā'gō), v. t.; pret. and pp. lumbagoed, ppr. lumbagoing. To afflict with lumbago

lumbang (lum'bang), n. [Tagalog lumbang, Bisaya lombang.] In the Philippine Islands, the candlenut-tree, Aleurites Moluccana. See

lumbang-oil (lum'bang-oil), n. Same as *can-

Lumbar index, puncture. See *index, *punc-

ture.

lumber³ (lum'bėr), v. t. [lumber³, n.] To put in pawn; hence, to put in prison. N. E. D.

lumberer² (lum'bėr-ėr), n. [lumber¹ + -er¹.]

1. One who lumbers clumsily about.—2.

A swindling tipster. Barrère and Leland.

lumberer³ (lum'bėr-ėr), n. [lumber³ + -er².]

A pawnbroker.

lumbering¹ (lum'ber-ing), p. a. 1. Awkward; cumbrous; heavy in action; encumbering.—2†. Rumbling.

lumbering2 (lum'ber-ing), n. The business of cutting timber in a forest and preparing it for market.

lumberjack (lum'ber-jak), n. One who works in a logging-camp. [Eastern U. S.] lumber-piet (lum'ber-pi), n. Same as lumbard-pie.

lumbersome (lum'ber-sum), a.

-some.] Cumbrous; lumbering.

lumboabdominal (lum'bō-ab-dom'i-nal), a.

[L. lumbus, loin, + abdomen, abdomen, + -all.]

Relating to both the lumbar and the abdominal regions

lumbodorsal (lum-bō-dôr'sal), a. [L. lumbus, loiu, + dorsum, back, + -al¹.] Relating to both the lumbar and the dorsal regions of the spine. lumbovertebral (lum-bō-ver'tō-bral), a. Re-lating to the lumbar vertebræ.—Lumbovertebral See *index.

lumbricaria (lum-bri-kā'ri-ā), n. pl. [NL., < L. lumbricus, an earthworm.] In paleon., a name under which are included certain obscure remains from the Jurassic Lithographic slates, which may best be regarded as the excrements of Annelida. They occur as irregularly contorted bands or strings, and are usually of

considerable length.

Lumbriconereidæ (lum'bri-kō-nō-rē'i-dē), n.
pl. [NL., < Lumbriconereis + -idæ.] A family of phanerocephalous Polychæta, without branchim or tentacles and with the cirri reduced or wanting. It includes the genera Lumbriconereis, Arabella, Drilonereis, Notocirrus, Laranda, and Ophryotrocha.

Lumbriconereis (lum"bri-kō-nē'rē-is), n. [NL., the family Lumbriconcreids: a marine group, though one species has been found in fresh

water in Trinidad. Grube, 1840.
lumbrous (lum'brus), a. [lumber1 + -ous.]
Lumbering. [Rare.]

Six hours after Hommy-beg had set out on his six-mile journey, a lumbrous, joiting sound of heavy wheels came from the road below the Curragh, and soon afterwards the Archdeacon entered the room.

Hall Caine, The Deemster, it.

lumen, n. 8. The unit of flux of light; the flux of light in a beam subtending unit solid angle where the source has an intensity of one hef-ner. See *illumination, 1, and light *flux.—4. The hollow tube of an operating-needle or of a hypodermic syringe.

In all such operations the difficulty is the tendency the paraffin has to solidify in the *lumen* of the needle.

Lancet, Aug. 29, 1903, p. 611.

Lumen philosophicum, an early name for the flame of a jet of hydrogen gas allowed to burn in the air as the hydrogen is generated by the interaction of zinc and dilute sulphuric acid.

lumen-hour (lū'men-our), n. A compound unit, one lumen of light flux for one hour. See

*lumen, 3.

Lumière process. See color-*photography. luminal (luminal), a. [L. lumen (lumin-), a light, air-hole, +-all.] Relating to the lumen any tubular organ or cell.

luminance (lū'mi-nans), n. [luminan(t) + -ce.] Luminousness: as, the luminance of the stars.

luminarious (lū-mi-nā'ri-us), a. Same as lu-

minous.

luminative (lū'mi-nā-tiv), a. [luminate + -ive.] Ill iminating; illuminative.

Cat fear is more readily understandable [than mouse fear], for in the peculiar formation and luminative quality of the cat's eye there is, as in the eye of the tiger, a species of fascination.

N. Y. Com. Advertiser, May 7, 1903, p. 7.

luminator (lū'mi-nā-tor), n. [L. luminator (cf. OF. luminier), an official who kept the accounts of expenditure for the lighting of a church, < L. luminare, lighten: see luminate.]
In St. Andrews University, a student (one in each class) who was privileged to attend the professor's lectures without payment, and to receive certain dues from the other students, in return for services rendered by him. N. E. D.

luminesce (lū-mi-nes'), v. i.; pret. and pp. luminesced, ppr. luminescing. [L. lumin-are, luminesced, ppr. luminescing. [L. lumin-are, shine, + -esce.] To emit light other than that due to ordinary incandescence. See *luminescence. Smithsonian Rep., 1899, p. 147.

luminescence (lū-mi-nes ens), n. [luminescen(t) + -ce.] The emission of light from causes other than that which produces incan-[luminesdescence. Radiation is emitted by all bodies at all temperatures; but below a certain temperature, that of the red heat, the wave-lengths emitted do not affect the eya. At that temperature (about 450° C) wave-lengths of

the risible spectrum begins and to be realished spectrum begins and to be been because an applied with further rise of temperature, and the temperature of the lower personnel to the further rise of temperature, at an even greater rate. Since streamforms of the lower rate at an even greater rate, also streamforms of the lower rate at an even greater rate, also streamforms of the lower rate at an even greater rate, also streamforms of the lower rate at an even greater rate, also streamforms of the lower rate at an even greater rate, also streamforms of the lower rate at an even greater rate, also streamforms of the lower rate at an even greater rate, also streamforms of the lower rate at an even greater rate, also streamforms of the lower rate at an even greater rate, also streamforms of the lower rate at an even greater rate, also streamforms of the lower rate at an even greater rate, also streamforms of the lower rate at an even greater rate, also streamforms of the lower rate at an even greater rate, also streamforms of the lower rate at an even greater rate, also streamforms of the lower rate at a profession produced by the control of the lower rate at a profession produced by the control of the lower rate at a profession produced by the control of the lower rate at a profession produced by the control of the lower rate at a profession produced by the control of the lower rate at a profession produced by the control of the lower rate at a profession produced by the control of the lower rate at a profession produced by the control of the lower rate at a profession produced by the produced by the lower rate at a profession produced

luminist ($l\bar{u}'$ mi-nist), n. [L. lumen (lumin-), light, + -ist.] A painter who affects brilliancy of light in plein-air effects.

His [Courbet's] canvases hang more harmoniously on a wall with Rousseau and Diaz than with the high-keyed productions of the luminists, impressionists, and other eccentrics of to-day.

J. C. Van Dyks, Mod. French Masters, p. 200.

characterized by an extensive inflammation of the lungs and pleura. It was eradicated from the United States in 1892.

lung-sac (lung'sak), n. One of the paired respiratory organs of a spider: as, "the lung-sacs on the epigastric region," Proc. Zool. Soc. London, 1903, I. 49.

lung-sick (lung'sik), a. Noting cattle suffering from contagious pleuropneumonia, an extremely contagious and deadly disease of these animals

lung-sickness (lung'sik-nes), n. Contagious pleuropneumonia of cattle. See *lung-plague. pleuropneumonia of cattle. See *king-plague.
lunicurrent (lū'ni-kur-ent), a. Changing periodically with the position of the moon.
luniolatry (lū-ni-ol'a-tri), n. [Irreg. < L. luna, moon, + Gr. λατρεία, worship.] Moon-worship.
Amor. Jour. Psychol., XIII. 314.
lunkah (lung'kä), n. [Hindi laπka, 'islands,' the local term for the islands of the Godavery delta have the table see in second (Vallands).

delta, where the tobacco is grown (Yule, Hobson-Jobson).] A kind of strong cheroot. N. E. D.

If you can say . . . that some murder has been done by a man who was smoking an Indian lunkah, it obviously narrows your field of search. Doyle, Sign of the Four, i.

lunker (lung'kèr), n. Same as *luncart.
lunn (lun), n. A tea-cake: short for sally-lunn.

lunoid (lū'noid), a. [L. luna, moon, + -oid.]
Shaped like the new moon; somewhat resembling the new moon; crescentiform.

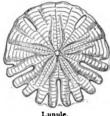
lunula, n. (g) in entom, a small depression on the fronts of a dipterous insect.—Lunulæ Hippocratis, the lunes of Hippocrates.

lunular, a. 2. In conch., pertaining to the

lunular, a. 2. In columnia of pelecypods.

lunule, n. (e) One of the perforations formed by the union of digitate processes of the test of certain thin forms of echinoids, as Rotula Augusti.

Lynn licerdium



Retula Augusti, with posterior digi-tations and a pair of anterior lunules. (From Lankester's "Zoology.")

lunuliform (lū'nū-li-fôrm), a. [L. lunula, lunule, + forma, form.] Having the form of a lunule.

Lunz sandstones. See *sandstone.

lupamaric (lū-pa-mar'ik), a. [lup(ulus) + amaric.] Noting a white crystalline acid contained in lupulin.

lupanar (lū-pā'nār), n. [L., < lupa, a prostitute, a she-wolf, fem. of lupus, a wolf: see wolf.] In Rom. antiq., a brothel.

lupanarian (lū-pa-nā'ri-an), a. [Lupanaris, < lupanar, a brothel: see *lupanar.] Of or pertaining to a brothel; fit for the surroundings of a brothel

lupanine (lu pa-nin), n. [L. lup(inus), lupine, +-an +-ine².] A pale-yellow syrupy alkaloid, $C_{15}H_{24}ON_2$, contained in the seeds of blue lupines, Lupinus angustifolius. It has an extremely bitter taste and exhibits a blue fluorescence.

lupeol (lū'pē-ol), n. [L. lup(inus), lupine, + -e- + -ol.] A crystallizable substance, analogous to cholesterol or cholesterin, extracted from the husk of the seed of the yellow lupine, Lupinus luteus.

lupeose ($\ln^r(p_0^2-\delta s)$, n. [L. lup(inus), lupine, + $-\delta se$.] An amorphous sugar, $C_{12}H_{22}O_{11}$, from the seeds of Lupinus luteus. It is not changed by Fehling's solution or by disasse. Dilute acids hydrolyze it to galactose and fructose. Also called β -galactan.

lupetazin (lū-pet's-zin), n. [lup(inin) + -et-+ azu + -in².] A trade-name for dimethyl-piperazin, $NH < \frac{CH_2CH(CH_3)}{CH_2CH(CH_3)} > NH$, a white

crystalline powder used in medicine as a substitute for piperazin. Also called dipropylene-diamine and dimethyl-diethylene-diamine.

lupiform (lū'pi-fôrm), a. [L. lupus, lupus, + forma, form.] Resembling lupus.

lupigenin (lū-pij'e-nin), n. [lupi(nin) + -gen + -in².] A yellow crystalline compound, $C_{17}H_{12}O_6$, formed by the action of dilute mineral acids on the glucoside lupinin.

lupine², n.—False lupine, any plant of the leguminous genus Thermopsis; the bush-pea. The plants of this genus are perennial herbs, unlike lupines in having but three leaflets to the leaf. The prairie false lupine, T. rhombifolia (known in Montana as yellow pea), is often

toms (fever, weakness, and distention of the abdomen) are due to the poisonous action of a fungus on the plants, rather than to any principle in the lupine itself.

upoid (lū'poid), a. [lupus1 + -oid.] Resembling lupus.

The sphere of x-ray treatment should be limited to the treatment of lupoid growths.

Med. Record, Feb. 7, 1908, p. 234.

lupoma (lū-pō'mā), n.; pl. lupomata (-ma-tā). [lup-us + -oma.] The initial lesion of lupus vulgaris, consisting of a discolored elevation

vulgaris, consisting of a discolored elevation above the surface.

lupous, a. 2, Relating to lupus.

lupulic (lū-pū'lik), a. [Lupul-us + -ic.] Same as lupulinic.

Lupulinic acid, a bitter crystalline compound, C₂₅H₃₆O₄ contained in the bitter principle of hops.

lupus¹, n. 3. (c) Lupus exedens, a form of lupus in which there is ulceration of the affected union of digitate processes of the test of certain thin forms of echinoids, as Rotul's August.

Lunulicardium | Lunulicardium | Lunula, lunule, + lunula, lunula

genus of shells.] A luresome (lūr'sum), a. [lurel + -some.] Engenus of extinct prionodesmaceous lurk, n. 2. The act of lurking or prowling. pelecypods with —on the lurk, on a swindling or fraudulent prowl. triangular shells in

genus of prionodesmaceous pelecypods with triangular shells in which the anterior surface is flattened and carries a very large occurs in the Silurian and Devonian formations.

| Lunuliform (lu'nū-li-fôrm), a. [L. lunula, lunule, + forma, form.] | Having the form of lunule, | Having the form of lunule, | Lunula, lunu

II. n. 1. An inhabitant of Lusatia.—2. The native language of Lusatia. Same as Sorbian, 2. lush-crib (lush'krib), n. [lush3 + crib.] A low public-house or bar-room. [Slang.]

lush-ken (lush'ken), n. Same as *lush-crib.
lushy, a. 2. Luxuriant; tender; soft. Also used figuratively.

lusingando (lö-sin-gän'dō), a. [It., ppr. of lusingare, flatter, wheedle, (lusinga, flattery, = OF. losenge, flattery: see lozenge.] Flattering; coaxing; in music, noting passages to be rendered in an affectionate or coaxing style. Compare amoroso.

lusingato (lö-sin-gä'tō), a. [It., pp.: see *lusingando.] Same as *lusingando.

Lusitano-American (lū-si-tā'nō-a-mer'i-kan), a. and n. I. a. Of mixed Portuguese and American Indian Absent, as the Portuguesespeaking people of Brazil.

II. n. A person of mixed Portuguese and

American Indian descent; a Brazilian.

The present inhabitants of Central and South America, the immense majority of whom are confessedly mixed peoples—Lustiano-Americans with a considerable strain of Negro blood in Brazil.

Keane, Ethnology, p. 151.

lusive (lū'siv), a. [L. lus(us), pp. of ludere, play, + -ive.] Playful.

lusol (lö'sol), n. The trade-name of impure benzene, obtained by distilling coal-tar: used as an illuminant. Sci. Amer., Dec. 29, 1906, p. 484.

lusong (15-song'), n. [Also losong. Tagalog and Bisaya losong.] A wooden mortar for pounding or husking rice. [Philippine Is.]

The grain is separated from the straw by thrashing, or by use of wind whenever possible, and is finally separated from the husk by pounding two or three times in a wooden mortar, called a 'lusong,' or by making use of a sort of hand-mill, called 'guilingan.'

Gaz. Philippine Is., 1902, p. 71.

lussatite (15-sä'tit), n. [F. lussatite (1890), < Lussat, Puy-de-Dome, France, +-ite2.] A peculiar form of quartz which resembles chalcedony but differs from it in optical character: it has been referred to tridymite.

so abundant as to give a yellow hue to large areas during lust¹, n. 5†. Pleasure; delight; a source of its flowering time. It is suspected of being poisonous pleasure.

The lookers now at me, poore wretch, be mocking, With mowes and nodds they stand about me flocking: Let God help him, say they, whom He did trust; Let God saue him in whom was all his lust.

Sir P. Sidney, Psalmes of David, xxii. 5.

lupindine (lū-pin'i-din), n. [lupine + -id + -ine².] A viscid, oily, intensely bitter alkaloid, C₈H₁₅N, contained in the yellow lupine. It has an odor of hemlock.

lupinosis (lū-pi-nō'sis), n. [lupine² + -osis.] A disease of cattle, supposed to be caused by poisoning with one of the lupines, usually the white lupine. It is probable that the symptoms (fever, weakness, and distention of the



lnster-mottlings (lus'ter-mot'lings), n. pl.
The mottling of the cleavage-surface of a
mineral produced by numerous inclusions of other minerals: compare pæcilitic.

lust-house (lust'hous), n. [G. lusthaus.] 1. A pleasure-house; a country-house; a summer-house in a garden.—2. A tavern with a beergarden. N. E. D.

lustracellulose (lus-tra-sel'ū-lōs), n. [lustr-

(ous) + cellulose.] A peculiar derivative of cellulose.

lustrative (lus'tra-tiv), a. [lustrate1 + -ive.]
Pertaining to purification by lustration; pertaining to washing.

lustratory (lus'tra-tō-ri), a. [lustrate1 + -ory.]
Pertaining to lustration; lustral.

lustrify (lus'tri-fi), v. t.; pret. and pp. lustrified, ppr. lustrifying. [luster² + -i-fy.] To give luster to: as, to lustrify the complexion.

lutaceous (lū-tā'shius), a. [NL. *lutaceus, < L. lutum, mud: see lute².] Pertaining to or composed of mud.

lutany (lū'ta-ni), n. [ML. lutana, lute, + -y³.] Lute-music. N. E. D.

[Minstrels] without end
Reel your shrill lutany.
F. Thompson, New Poems, p. 41. F. Thompson, New Poems, p. 41.

Lite², n.— Linseed-meal lute, linseed-meal made into a paste with water, milk, glue, or lime-water.— Lute d'âne, a mixture of recently slaked lime with strong glue and a subsequent addition of white of egg.— Willis's lute, a paste made with slaked lime and a solution of two ounces of borax in one plint of water. This paste is applied to earthenware with a brush, and, when dry, is covered with a pasty mixture of slaked lime and linseed-oil.

lutecine (lū'tē-sin), n. [L. luteus, of mud, +
-c- + -ine².] A form of anhydrous silica, SiO₂,
which has a fibrous structure and which differs from quartz in lower density and in optical characters. Also called quartzine.

lutecite (lū'tē-sīt), n. Same as *lutecine. lutecium (lö-te'gium), n. [L. Lutetia, Roman name of Paris.] See the extract.

A New Element, Lutecium.—By means of a long series of fractional recrystallizations of the nitrate of Marignac's ytterbium, using nitric acid of density 1.3 as a solvent, G. Urbain has succeeded in separating the material into two distinct substances, one of which gives a characteristic spark spectrum. This new element he calls lutecium, Lu, from an ancient name for Paris, and he finds that its atomic weight is not much greater than 174. The other element present he calls neo-ytterbium, Ny, in order that it may not be confused with Marignac's ytterbium. Its atomic weight cannot differ much from 170. Two spec-

lutecium trum bands obtained by Lecoq de Boisbaudran's method are probably characteristic of neo-ytterbium, while a third band appears to belong to luterium. Am. Jour. Set., Feb., 1908, p. 146.

Inteic (lū-tē'ik), a. [L. lute-us, of mud, +-ic.]
Noting an acid, a yellow compound, C₂₀H₂₀O₁₂(¶), resembling luteoleine, contained in the
flowers of Euphorbia cyparissias. It crystallizes in slender needles, sublimes at 220° C.,
and melts at 273-274° C.

lutein (lū'tē-in), n. [(corpus) lute(um)(see def.) + -in².] A yellow pigment contained in the yolk of eggs, in the tissue of the corpus luteum, in blood-serum, etc. It forms orange crystals.

luten (lū'ten), n. Same as *lutein.

luteocobaltic (lū'tē-ō-kō-bâl'tik), a. In chem., containing a cobalt-hexammine constituent:

as, a luteocobaltic salt.

luteoflin (lū-tē-of'i-lin), n. [L. luteus, of mud, + filum, thread, + -in².] A compound said to occur in monocotyledons and in Lobeliaces.

Lutetian, a. II. n. In geol., the Middle Eocene Tertiary of the Paris basin, which

takes its name from Lutetia, the Roman name of Paris. This stage is regarded as the probable equivalent of the Lower Bagshot and Bracklesham beds of England.

Luth. An abbreviation of Lutheran. Lutheranic (lū - ther - an 'ik), a.

Same as

Lutheranize (lū'thėr-an-īz), v.; pret. and pp.
Lutheranized, ppr. Lutheranizing. I. trans.
To render Lutheran in character; convert to Lutheranism.

II. intrans. Lutheranism

Lutlanida (lū-ti-an'i-dē), n. pl. [NL., < Lu-tianus +-idz.] A family of fishes related to the percoids and commonly known as snap-

Lutianus (lū-ti-ā'nus), n. [NL., also Lutjanus, < lutjang, D. spelling of Malay "luchang: see *lutjang.] A genus of fishes of the family Lutianida.

lutidine (lū'ti-din), n. [L. lutum, mud, $+ -id^1 + -ine^2$.] The collective name of the various isomeric dimethylpyridines, $(CH_3)_2 C_5 H_3 N$. They are present in coal-tar oil and in animal-and bone-oil, and resemble pyridine in general properties.

lutite (lū'tīt), n. utite (lū'tīt), n. [L. lutum, mud, + -ite².] In petrog., a term introduced by Grabau (1904) for an indurated rock of any composition or

lutjang (lö'chang), n. [A D. spelling of Malay luchang in ikan lütjang (luchang), appar. lit. 'bell-fish.'] A Malayan name (ikan lutjang) of the fish Lutianus lutianus.

lutrin (lū'trin), n. [F.: see lectern.] Same as

luv, v. and n. An amended spelling of love.
luvar (1ö-vär'), n. Same as *luvaro.
luvaro (1ö-vä'rō), n. [Sp.] A pelagic scombroid fish, Luvarus imperialis. See Luvarus.
luvly, a. and adv. An amended spelling of lovely.

lux3, n. 2. The unit of illumination: the illumination received by a surface at a distance of one meter from a light-source the intensity of which is one hefner. See *illumination, 1.

 luxograph (luk'sō-grāf), n. [A trade-name; irreg. ζ L. lux, light, + Gr. γράφειν, write.]
 In photog., a large lantern-like device with a tissue-paper front, in which pyrotechnic materials can be burned to give an artificial light for portraiture. Wall, Diet. of Photog., p. 456. luxus (luk'sus), n. [L. luxus, excess: see lux2.] In physiol., the consumption of more nitro-genous food-material than is necessary to maintain nitrogenous equilibrium, that is, to cover the actual wear and tear of the nitro-genous constituents of the body tissues: in such an event the term 'luxus consumption' is

luzonite, n. This supposed independent species has been shown to be only a variety of enargite.

1v. A contraction (a) of leave; (\bar{b}) of livres. LXX. The Roman numeral for 'seventy'; hence, the 'Seventy' (L. Septuaginta) who, according to tradition, translated the Hebrew Scriptures into Greek; also the translation—the Septuagint itself. See Septuagint. LXX.

Lyman (lī-ē'an), n. See *Lymus.

Lyseus (li-ē'us), n. [L., < Gr. Avaioç, appar.

< λύειν, release.] The looser or deliverer: an epithet of Bacchus.

lycaconitin (li-ka-kon'i-tin), n. [(g)lyc(erol)(?)]+ aconite + -in².] An amorphous alkaloid of undetermined composition, obtained from the tuberous roots of Aconitum lycoctonum and A. septentrionale.

lycanid (lī-sē'nid), n, and a. I. n. A member of the dipterous family Lycanida.

II. a. Having the characters of or belonging to the family Lycenide.

lyceal (lī-sē'al), a. [lyce-um + -al¹.] Pertain-

ing to a lyceum, in any sense. Marro tabulated the conduct of 3012 boys in gymnasial and lyceal classes in Italy from 11 to 18 years of age.

G. S. Hall, Adolescence, I. 345.

Lycenchelys (li-seng'ke-lis), n. [NL., < Gr. λίκος, wolf, + ξγχελνς, an eel.] A genus of fishes of the family Zoarcidæ, found in deep water on both coasts of North America.

Lycengraulis (li-seng-gra'lis), n. [NL., < Gr. Ahoo, wolf, + NL. Engraulis.] A genus of fishes of the family Engraulidide, found on both coasts of tropical America.

lycetol ($li's\bar{e}$ -tol), n. [(g)lyc(erol) + -et + -ol.]The trade-name for dimethylpiperazin tartrate,

The trade-name for dimethylpiperazin tartrate, $NH < CH_2 \cdot CH(CH_3) > NH \cdot H_2C_4H_4O_6$, which is prepared from glycerol. It is a white odorless powder and is used in medicine to effect the elimination of urle sold, with which it forms a readily soluble compound

pound.

leran in character; convert to lyceum, n.— United States Naval Lyceum, an association organized in 1833, at the Brooklyn navy-yard, by naval and marine officers.

lychnisk (lik'nisk), n. [Gr. λυχνίσκος, applied to a kind of fish, dim. of λύχνος, a lamp.] One of the swollen nodes formed at the junction of the rays in the skeletal structure of the dientity tyonine hexactinellid sponges, especially when these nodes are hollow and inclose an octahedral space.

ly-chow (li'chou), n. [Origin not ascertained.] Roasted potato starch, similar to crommelin and leio gum, used as a thickener in calicoprinting. Georgievics (tra of Textile Fibres, p. 251. Georgievics (trans.), Chem. Technol.

Lycian² (lis'i-an), a. [Gr. λύκειος, of a wolf, λύκος, wolf. Also taken as Lycian¹.] Wol slaying: an epithet applied to Apollo.

lycine (li'sin), n. $[(g)lyc(erol) + -ine^2]$ A color-less compound, HON(CH₃)₃CH₂COOH, or, in the anhydrous form, $(CH_3)_3N < {}^{O}_{CH_2} > CO$,

contained in sugar-beet juice, cotton-seeds, and other vegetable products, and in urine. It forms large crystals which become anhydrous at 100° C. and attract moisture from the air, and is of considerable importance in plant

lutrin (lū'trin), n. [F.: see lectern.] Same as lectern.

lutulence (lū' tū-lens), n. [lutulent + -ce.] Muddiness; turbidity.

luv v. and n. An amended spelling of love.
luvar (lö-vär'), n. Same as *luvaro.
luvaro (lö-vär'ō), n. [Sp.] A pelagic scombroid fish, Luvarus imperialis. See Luvarus.
luvly, a. and adv. An amended spelling of lovely.

luvly, a. and adv. An amended spelling of lovely.

luvly, a. and adv. An amended spelling of lovely.

Lycodalepis (lī-kō-dal'ē-pis), n. [NL., < Lycodes + Gr. ἀλεπις, without scales.] A genus of fishes of the family Zoarcidæ, found in the Arctic Ocean.

ber of the aranel family Lycondx.

Sea fishes found in North Pacific waters, which includes one genus and four known species.

Lycodapus (li-kod'a-pus), n. [NL., Lycodes]

H. a. Having the characters of or belonging to the family Lycondx.

Lycodapus (li-kod'a-pus), n. [NL., Lycodes]

Hycotropous (li-kot'rō-pus), a. Same as Lycotropous (li-kot'rō-pus), a. Same as Lycotropous (li-kot'rō-pus), a. [Lycurg-us + -an.]

North Pacific.

Lycodontis (li-kō-don'tis), n. [NL., Lycotropous]

Pertaining to or characteristic of Lycurgus, the Spartan lawgiver, or to his laws, which world Lycotropous (li-kot'rō-pus), Lycotropous (li-kō-don'tis), Lycotropo

Horth Facing.

Lycodontis (li-kō-don'tis), n. [NL., < Gr.λύκος, wolf, + δδούς (δδοντ-), tooth.] A genus of eels of the family Murænidæ, found in shallow water about rocks and reefs: properly called



of fishes of the family Zoarcidæ, found on the acific coast of the United States.

Lyconectes (li-kō-nek'tēz), n. [NL., < Gr. Alwor, wolf, + whrm, swimmer.] A genus of fishes of the family Cryptacanthodidæ, found in rather deep water on the Alaska coast.

Lyconema (li-kō-nē'mä), n. [NL., < Gr. λίκος, wolf (see Lycodes), + νημα, thread.] A genus of zoarcoid fishes, found in rather deep water on the coast of Alaska.

mycetous fungi, including the single family Lycoperdaceæ. See Lycoperdaceæ.

lycoperdoid (lī-kō-per'doid), a. [Lycoperdon + -oid.] Resembling the fungus Lycoperdon + -oid.] Resembling the fungus Lycoperdon.

lycopin (lī'kō-pin), n. [Lycop-us + -in².] A colorless amorphous compound obtained from bugleweed, Lycopus. It has astringent, styptic, and sedative properties.

Lycopodiales (lī-kō-pō-dī-ā'lēz), n. pl. [NL. (Engler, 1892), < Lycopodium + -ales.] An order of vascular cryptogamic plants of the phylum Pteridophyta, coördinate with the Filicales and Equisetales. It is divided into two groups, according to the presence or absence of the ligule in the leaves. It contains four families of living and two of fossil or extinct plants. The Lycopodiaceæ and Psilotaceæ are estitute of the ligule (Lycopodialeæ eligulatæ of Engler). The Sclaginellaceæ and Isoitaceæ are ligulate (Lycopodiales ligulatæ of Engler). The two extinct families. Lepidodendraceæ and Sigillariaceæ, are placed by Engler in the ligulate group.

Lycopodine (lī-kop'ō-din), n. [Lycopod-ium + -ine².] A colorless bitter alkaloid, C32H52O3N2, contained in club-moss, Lycopodium complantum. It crystallizes in long, monoclinic prisms and melts at 114-115° C.

Lycopodium, n. 2. [l.c.] A fine powder consisting of the spores of Lycopodium claratum and other species, used in pharmacy as a dusting-powder on the skin and on exceriated surfaces, and in other ways. On the application

a dusting-powder on the skin and on excoriated a dusting-powder on the skin and on excorated surfaces, and in other ways. On the application of a flame, it burns with a flash, and does not become wet in contact with water. It is used in physical experiments, especially with sound.

lycorexia (li-kō-rek'si-ši), n. [NL., < Gr. λύκος, wolf, + δρεξις, appetite.] In pathol., a morbid state characterized by a constant,

excessive hunger.

lycorine (lik o-rin), n. [Lycoris + -ine².]

A colorless crystalline alkaloid, C₃₂H₃₂O₈N₂,
contained in Lycoris radiata (Nerine japonica),
melting at 250° C. It affects the central nervous system.

Lycoris (li-kō'ris), n. [NL. (Herbert, 1821), Lycoris, a Roman actress celebrated in Vergil.] A small genus of bulbous plants of Japan and China, of the family Amaryllidaceæ, distinguished from Hippeastrum by its turgid distinguished from Hippeastrum by its turgid seeds, few in a compartment. Four species are known in gardens, usually as greenhouse subjects, but in mild climates as border plants. The flowers are lilly-like, red, illac, or orange, in umbels on long scapes, appearing without the leaves. In the United States they bloom in summer or autumn. Leanguinea, L. radiata, L. aurea, and L. aquamigera are grown, the last being sometimes known to florists as Amaryllis Hallii.

Lycosaurus (li-kō-sā'rus), n. [NL., Gr. λύκος, wolf + aquoc. lizard.] A grenus of fossil thero-

Lycosaurus (11-ko-sa rus), n. [NL., (Gr. Auroc, wolf, + σαῦρος, lizard.] A genus of fossil theromorphous reptiles belonging to the family Galeosauridæ. Only the skull is known, and this shows, like that of other reptilian genera from the Karoo formation in South Africa, a remarkable similarity to the carnivorous mammals. In this genus the molariform teeth are all in single cones, though more or less compressed and with finely serrated edges.

lycosid (li-kos'id), n. and a. I. n. A member of the araneid family Lycosidæ.

are proverbial for their severity.

lyddite (lid'it), n. [So called from Lydd, in Kent, England.] An explosive, consisting of pieric acid melted and cast into a shell. It is difficult to detonate.

Water about rocks and reeis: property

Gymnothorax.

Lycodonus (lī-kod'ō-nus), n. [NL., ⟨ Lycodes difficult to detonate. | ydine (lī'din), n. A violet compound, prepared by the action of potassium ferricyanide on aniline hydrochlorid. Also called maurein. | lydite (lid'it), n. [L. Lydia, ⟨ Gr. Λνδίa, an ancient country of Asia Minor, + -ite².] In petrog., Lydian stone, a black or dark-colored compact, hard rock composed of minute grains of quartz with carbonaceous matter. It was used by the ancients as a touchstone for testing gold.

lye³, n. 2. In a general sense, water charged lymf, lymfatic. Amended spellings of lymph, with soluble solid matter by contact with a lymphatic.

lye-boil (li'boil), n. The boiling of cotton cloth in a dilute solution of soda-ash, prepara-

Lyellian (li-el'i-an), a. Of or pertaining to Sir Charles Lyell"(1797-1875) or to his geological theories and investigations.

The old Lyellian theory of the marine origin of the boulder clay thus finds confirmation.

Geog. Jour. (R. G. S.), XV. 173.

Lyellism (li-el'izm), n. [Sir Charles Lyell, a distinguished geologist, + -ism.] In geol., uniformitarianism (which see) or the general doctrine, advocated by Lyell, that the events of the past are to be explained by the pro-cesses of the present, and that the course of nature has been essentially uniform.

Indeed, Lyellism, with its essential doctrine of the alternate elevation and subsidence of the land under the agency of local causes, seemed inconsistent with the existence of any general cause governing the geographical evolution of the globe as a whole.

Geog. Jour. (R. G. S.), XIII. 226.

lyer (li'er), n. [Cape D. leier, a reduction of leider = E. leader.] In South Africa, the lad who walks before a team of oxen, guiding the leaders with a rope.

lygæid (li-jē'id), n. and a. I. n. A member of the heteropterous family Lygæidæ.

II. a. Having the characters of or belonging to the family Lygæidæ.

Lygeum (li-jē'um), n. [NL. (Linnæus, 1753, adopted from Löfling), Gr. $\lambda \nu \gamma \delta e \nu$, bend, tie fast.] A genus of grasses, containing but one species, L. Spartum, found on stony soils in the Mediterranean region, particularly in Spain and Algeria. It is often called esparto because of confusion with the true esparto, Stipa tenacissima, but its proper name is albardin. Its tough, slender leaves are used in making baskets and for other coarse textile purposes. See *albardin.

Lygodesmia ($li-g\bar{g}-des'mi-\bar{g}$), n. [NL. (Don, 1829), \langle Gr. $\lambda i\gamma o_{\zeta}$, withe, + $\delta \ell o_{\mu\eta}$, bundle; in allusion to the fastigiate, naked stems of the type species, L. juncea.] A genus of plants of the family Cichoriaceæ, perennial or annual herbs with usually rush-like stems, inconspicuous linear or scale-like leaves, and mostly terminal, narrow, erect heads of pink flowers. There are about six species, all North American. The best-known is L. juncea (often called skeleton-weed and germ-weed), a native of the Great Plains, which now occurs as a weed in the cultivated fields of that region.

lygosinate (li'gō-sin-āt), n. [lygosin + -ate¹.]
The trade-name for an antiseptic compound of lygosin.

lygosin (li'gō-sin), n. The trade-name of di-orthocumaketone.

lving-time (lī'ing-tīm), n. Same as *lie-time. lying-wall (li'ing-wâl), n. Same as foot-wall. lymph-gland (limf'gland), n. Same as lymphantriid (li-man'tri-id), n. and a. I. n. An insect of the lepidopterous family Lymantri-the lepidopterous family Lymantri

II. a. Having the characteristics of, or belonging to, the Lymantriidæ.

Lymantriidæ (li-man-tri'i-dē), n. pl. [NL., \(Lymantria + -idæ. \)] A family of lepidopterous insects founded on the type genus Lymantria and its allies.

lyme-grass, n. 2. In entom., a British collectors' name for a noctuid moth, Tapinostola

lymexylonid (li-mek-si-lon'id), n, and a. I. n. A member of the coleopterous family Lymexy-

Having the characters of or belong-II. a. ing to the family Lymexylonidæ. 8. - 48

with soluble solid matter by contact with a mixture of solid substances, partly soluble, partly insoluble.—Concentrated lye, the tradename in the United States for caustic soda, sold for scouring.—Solid lye, a tradename for a very impure caustic soda (two-thirds common salt), sold for domestic soda (two-thirds common salt), sold for domestic soda (two-thirds common salt), sold for domestic use in scouring, etc.

lye-boil (li'boil), n. The boiling of cotton cloth in a dilute solution of soda-ash, preparatory to bleaching.

Lyellian (li-el'i-an), a. Of or pertaining to Sir Charles Lyell (1797-1875) or to his geological theories and investigations.

lymphatic.

lymph, n. 3. Any antitoxic serum, as vaccine virus.—Glycerinated lymph, See #glycerinated lymph, sacentially a solution for the metabolic products of the tubercle bacillus grown for them the solution of sweeks in nutrient bouillon containing 5-6 per cent. of glycerin. The bacilli are removed by filtration through porcelain filters. Inoculation with this fluid constitutes an attempt at active immunization. The material is extensively utilized in the disgnosis of tuberculous, and is of great value in the recognition of the disease in cattle. Same as tuberculón, 1.—Plastic lymph, lymph, exsentially a solution for the metabolic products of the tubercle bacillus grown for cent. of glycerin filters. Inoculation with this fluid constitutes an attempt at active immunization. The material is extensively utilized in the disgnosis of tuberculón, 1.—Plastic lymph, lymph, expenditally a solution for the metabolic products of the tubercle bacillus grown for cent. Of weeks in nutrient bouillon containing 5-6 per cent. of glycerin. The bacilli are removed by filtration through porcelain filters. Inoculation with this fluid constitutes an attempt at active immunization. The material is extensively utilized in the disgnosis of tuberculón, 2.—Plastic lymph, lymph, expendity as a supplication of the weeks in nutrient bouillon containing 5-6 per cent. of glycerin. The bacilli a

a tendency to become organized.

lymphadenia (lim-fa-dē'ni-ä), n. [NL., < Limpha, water (lymph), + Gr. acin, gland.]

Enlargement of the lymphatic glands in general: a symptom of Hodgkin's disease.

lymphadenosis (lim-fad-e-no'sis), n. [NL., \(L. \) lympha. Water (lymph) 1 See. L. lympha, water (lymph).] Same as *lymphadenia.

lymphagogue (lim'fa-gog), n. [L. lympha, water (lymph), + Gr. άγωγός, leading.] A therapeutic agent which promotes the formation of lymph.

It seems highly probable that the reparative lymph exudation which follows exercise is produced by the agency of chemical substances generated by muscular contraction, just as the digestive lymph flow is caused by exogenous lymphagogues. Creatin and lactate of ammonium produce the double curve of arterial pressure induced by exercise and rest.

Nature, May 26, 1904, p. 92.

lymphangiectodes (lim-fan-ji-ek'tō-dēz), n. [NL., < L. lympha, water (lymph), + angiect(asia) + -odes (see -oid).] Hypertrophy of the skin associated with dilatation of the lymph-spaces.

lymphangiomatous (lim-fan-ji-om'a-tus), a. [lymphangioma $(t\cdot)$ + -ous.] Relating to or affected with lymphangioma. Buck, Med. Handbook, I. 227.

lymphangiotomy (lim-fan-ji-ot'ō-mi), n. [L. lympha, water (lymph), + Gr. ἀγγείον, vessel, + τομή, section.] Dissection of the lymphatic vessels.

lymphatic1. cic^1 , a. — Waldeyer's lymphatic throatest + throateng.

ring. See *throat-ring.

lymphatism (lim'fa-tizm), n. [lymphat-ic +
-ism.] 1. A depressed physical condition,
marked by low vitality, associated with the
lymphatic temperament. Buck, Med. Handbook, VII. 446.—2. Scrofula.

lymphatolysin (lim-fa-tol'i-sin), n. [lymphat-ic + lysin.] A cytotoxin directed against lymphatic tissue.

lymphatolytic (lim-fa-tō-lit'ik), a. [lymphatolytin (-lyt-) + -ic.] Relating to the action of a lymphatolysin.

lymphedema (lim-fē-dē'mā), n. [L. lympha, water (lymph), + Gr. oldnµc, swelling.] A dropsical condition of the tissues due to obstruction to the flow of lymph.

lymph-gill (limf'gil), n. In certain worms, as the Capitellidæ and the Glyceridæ, one of the parapodial respiratory processes containing continuations of the body-cavity, and carrying hemolymph: in starfishes, the dermal branchize or papulæ.

phatic gland.— Marrow-lymph glands, a form of hemolymph glands found in the retroperitoneal adipose tissue near the brim of the pelvis and in relation with the creek vessels.

lymph-node (limf'nod), n. One of numerous roundish, somewhat resistant bodies found along the course of the lymphatic vessels and composed of a mass of round cells in a delicate fibrous network.

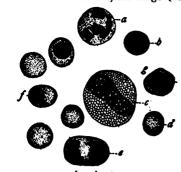
lymphoblast (lim 'fō-blast), n. [L. lympha, water (lymph), + Gr. $\beta\lambda a\sigma r \delta c$, germ.] A leucocyte of lymph-gland origin, which possesses feeble phagocytic properties: distinguished from the *myeloblast.

unguished from the *myeloblast.

lymphoblastic (lim-fō-blas'tik), a. [lymphoblast + -ic.] Relating to a lymphoblast; giving origin to lymphocytes. Jour. Med. Research, Dec. 1907, p. 261.

lymphocele (lim'fō-sēl), n. [L. lympha, water (lymph), + Gr. κήλη, tumor.] A cystic tumor containing lymph.

lymphocyte (lim'fō-sit), n. [L. lympha, water (lymph), + κύτος, a hollow (a cell).] A type of leucocyte found in the blood of all vertebrate animals. It is colored blue or purple with Ehrlich's triple stain, and occurs, in man, nor-mally in the proportion of about 30 per cent. of the entire number of white blood-cells. There are two varieties, the large (11 to 14



Cover-glass preparation from the bone-marrow of a dog, highly magnified (from preparation of H. F. Müller). a, mast-cell; b, ymphocyte; c, cosinophil cell; a, red blood-cell; c, erythroblast in process of division; f, normoblast; g, erythroblast. (From Huber's trans. of Böhm-Davidoff, "Histology.")

microns in diameter), and the small (7.5 microns in diameter), the latter being the more numerous.

Abscess of some variety was suspected, but later a differential count of the white blood cells showed the lymphocytes in a proportion of 93 per cent.; the second case was that of a young woman who had been delivered of a child a short time before, in whom the leucocytes ranged between 200,000 and 400,000, the lymphocytes were later found to be in a proportion of 98 per cent.

Med. Record, May 80, 1903, p. 810.

lymphocythemia (lim' fō - sī - thē 'mi - ξ), n. [NL., < L. lympha, water (lymph), + Gr. κύτος, a hollow (a cell), + aiμa, blood.] Same as *lymphocutosis.

lymphocytic (lim-fō-sit'ik), a. Pertaining to

or of the nature of lymphocytes. lymphocytosis (lim'fō-sī-tō'sis), n. L. lympha, water (lymph), + Gr. $\kappa i \tau c$, a hollow (a cell), + -osis.] The formation of lymph-cells; specifically, increase, actual or relative, in the number of lymphocytes in the

There may be an increase in the proportions present in the blood of lymphocytes (lymphocytesis). Encyc. Brit., XXXI. 558.

lymphocytotic (lim'fō-sī-tot'ik), a. Relating to lymphocytosis, or the formation of lymph cells.

lymphocytotoxin (lim-fō-sī-tō-tok'sin), n. [lymphocyte + toxin.] A cytotoxin directed against lymphocytes.

lymphoedema, n. [NL.] Same as *lymph-

water (lymph), + Gr. -γενης, -producing.] Producing lymph or lymphocytes.

lymphogenous (lim-foj'e-nus), a. Same as *lymphogenic.

lymphogonion (lim-fō-gō'ni-on), n.; pl. lymphogonia (-8). [L. lympha, water (lymph), + Gr. γόνος, generation.] A more or less hypothetical ancestral cell of the lymphocytes.

Lymphoid tuberculosis. See *tuberculosis.

lymphopenia (lim-fō-pē'ni-ä), n. [L. lympha, water (lymph), + Gr. πενία, poverty.] A diminution in the number of the lymphocytes of the blood.

lymphorrhagia (lim -fō -rā' ji -ä), n. [L. lympha, water (lymph), + Gr. -ραγία, < ρηγνίναι, break.] Discharge of lymph from a wounded lymphatic vessel.

lymphorrhea, lymphorrhea (lim-fō-rō'ā), n. [L. lympha, water (lymph), + Gr. boia, flow.] Same as *lymphorrhagia.

lymphostasis (lim-fos'ta-sis), n. [L. lympha, water (lymph), + Gr. στάσις, standing.] Arrest of the flow of lymph.

taining lymph; of or relating to lymph.

lymph-scrotum (limf'skrō'tum), n. Elephanti-

asis of the scrotum.

lymphuria (lim-fū'ri-ā), n. [L. lympha, water (lymph), + Gr. oipov, urine.] The presence of lymph in the urine when voided. lymph-vascular (limf'vas'kū-lär), a.

ing to or containing lymphatic vessels.

Lynceidæ (lin-sö'i-dö), n. pl. [NL., < Lynceus + idæ.] A family of cladocerous phyllopod crustaceans, having 3-jointed antennal branches and a convoluted intestine. It includes the genera Lynceus and Eur ycercus.

Lyncous, n. 2. The typical genus of the family Lyncoidæ. Müller, 1785.

lynch-court (linch'kōrt), s. A so-called 'court' hastily but illegally organized by an enraged mob for the trial and summary punishment, according to lynch-law, of some obnoxious person.

Person.

lyncher (lin'cher), n. [lynch², v., + -or¹.]

One who lynches or takes part in a lynching.

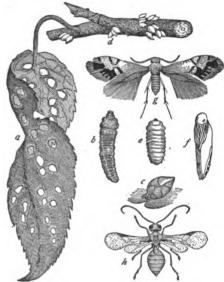
lynching (lin'ching), n. [lynch², v., + -ing¹.]

The act of executing lynch-law upon a person; the killing of a person by a mob under pre-tense of summary justice. Lynton group. See $*group^1$.

Tynx, n.—Isabelline or Tibet lynx, lynx isabellina, the Tibet widcat, of a pele-yellowish color.—Pardine lynx, Felie (Lynx) pardina, of southern Europe. It is rufous above, while below, with black spots on the body, limbs, and tail.

Incompany the state of the sta

Lyonetia, n.—Apple lyonetia, a tineoid moth of the family *Elachistida*, *Coptodisca splendoriferella* (formerly known as *Lyonetia saccatella*), whose larva lives on apple-leaves, forming a sac-like case which it carries about with it. Also formerly referred to as Aspidisca splendoriferella.



Apple Lyonetia (Costodisca splendoriferella). a, work on apple leaf; b, summer larva; c, larva in case traveling; d, cases tled to twig for hibernation; e, hibernating larva; f, chrysalis; e, moth; A, perasite; all much enlarged except a and d, which are alightly reduced. (Comstock, U. S. D. A.)

lyonetiid (lī-ō-net'i-id), n. and a. I. n. A I member of the lepidopterous family Lyonetiidæ.

II. a. Having the characters of or belonging to the family Lyonetiidæ.

Lyonsia (lī-on'si-ā), n. [NL., (Turton, 1822).]

The typical genus of the family Lyonsiidæ.

Lyonsiidæ (lī-on-sī'i-dē), n. pl. [NL., < Lyonsiidæ (lī-on-sī'i-dē), n. pl. [NL., < Lyonsiidæ (lī-on-sī'i-dē).

I tentinacean bivalve mollusks having a cylindrical byssiferous foot 1 and short siphons. It contains the genus Lyonsia.

Lyopomi ($l\bar{l}$ -op' \bar{o} -m \bar{l}), n. pl. [NL., irreg. \langle Gr. $\lambda \dot{\nu} \epsilon \nu$, loosen, $+ \pi \bar{\omega} \mu a$, lid (operculum).] An order of deep-sea fishes, containing the single

family Halosauridx.

Lyopsetta (i-op-set'ä), n. [NL., \langle Gr. $\lambda \dot{\nu} e \iota \nu$, loosen, $+ \psi \bar{\eta} \tau \tau a$, flounder.] A genus of flounders found on the west coast of the United tailed, together with lysaurid and h

Lyosphæra (lī-ō-sfē'rā), n. [NL., irreg. ⟨Gr. λύειν, loosen, + σφαῖρα ball, sphere.] A genus of fishes of the family Diodontidæ, found on the Atlantic coast of the United States.

The Atlantic coast of the United States.

| ypemania (li-pē-mā'ni-ā), n. [NL., irreg. < Gr. λύπη, grief, + μανία, madness.] Insanity marked by an extreme degree of melancholy.

| ypothymia (li-pō-thim'i-ā), n. [NL., < Gr. λύπη, grief, + θυμός, spirit, mind.] Extreme depression of spirits.

lyr. An abbreviation of lyric.

lyrachord (li'rä-kōrd), n. [Irreg. < Gr. λύρα, lyre, + χορδή, string.] A form of pianoforte invented in England about 1850, in which the hammers were directed against the middle point of the strings. Compare *cembale against the middle point of the strings. d'amore, which may have suggested the idea. lyre¹, n. t. (e) In pianoforte-making, the lyre-shaped frame to which the pedals are attached and through which the pedal-rods work.—6.

The posterior portion of the under surface of the fornix of the brain, marked by a number of lines bearing a fancied resemblance to a lyre. Also called lyre of David or lyra Davidis. lyre-backed (lir'bakt), a. In old English furniture, said of a chair in which the centerpiece of the back has the form of a lyre.

lyre-fish (lir'fish), n. A gurnard, Trigla lyra, of the family Triglidæ, found in the Mediterranean and on the coasts of England and France. lyre-flower (lir'flou'er). n. A handsome, hardy perennial plant, Biku-kulla spectabilis, with rosy-crimson flowers arranged in graceful ra-cemes. See Dicentra and bleeding-heart, 2.
yre-tree (līr 'trē), n.
The tulip-tree, Lirioden-

A Sheraton Lyre-back.

dron Tulipifera: so called from a distant resem-

dron Tulipifera: so called from a distant resemblance in the shape of the leaves to a lyre. lyrically (lir'i-kal-i), adv. In a lyric manner. lyricize (lir'i-sīz), v. i.; pret. and pp. lyricized, ppr. lyricizing. [lyric + -ize.] To write lyrics or write lyrically. lyrid (li'rid), n. [Lyra + -id².] Same as lyraid, and now the more usual form of the name. Nature, April 23, 1903, p. 584. Lyrodesma (li-rō-des'mā), n. [NL., < Gr. λύρα, a lyre, + δέσμα, band, hinge.] A genus of fossil prionodesmaceous pelecypods having an oval shell with narrow cardinal border and a hinge-armature which radiates like a fan from hinge-armature which radiates like a fan from below the umbones. It is restricted to the lysogenetic (lī'sō-jē-net'ik), a. [lysogenesis Silurian of Europe and America. (-et-) + -ic.] Of or pertaining to lysogenesis.

lyrula (lir ulla), n. [NL. dim. of lyra, lyre.]
In polyzoans, a tooth-like process behind the
avicularium. Annals and Mag. Nat. Hist.,

avicularium. Annals and Mag. Nat. Hist., July, 1903, p. 120.

lysactinic (lis-ak-tin'ik), a. [Gr. $\lambda i \sigma(\omega)$, solution, $+ \dot{\alpha} \kappa \tau i \epsilon$ ($\dot{\alpha} \kappa \tau i \nu$ -), ray, + -ic.] In echinoderms, as the starfishes, having the podia limited to the lower surface of the body. Also, erroneously, lissactinic. Compare *desmactinic.

lysalbic (li-sal'bik), a. [Gr. $\lambda i \sigma(\omega)$, solution, + alb(umen) + -ic.] Noting an acid, a compound prepared by the action of caustic alkali (alkali hydroxid) on egg-albumin. With compounds of the heavy metals it gives precipitates which are soluble in alkali, the metal passing into the colloidal state. metal passing into the colloidal state.

Lysarete (li-sar'e-tē), n. [NL., < Gr. Λυσαρέτη, a feminine personal name.] The typical genus of the family Lysaretidæ.

Lysaretidæ (lis-a-ret'i-dē), n. pl. [NL., < Lysarete + -idæ.] A family of polychætous annelids having a prestomium with three tentales and four eyes the first two segments.

annelids having a prestomium with three tentacles and four eyes, the first two segments without appendages, the parapodia uniramous with one set of setæ, and the dorsal cirri foliaceous and branchial. It includes the genera Lysarete, Danymene, and Halla. lysatine (lis'a-tin), n. $[lys(in) + -ate^1 + -ine^2]$ A colorless basic compound, $C_6H_{13}O_2N_3$, obtained, together with lysatinine, by the action of stannous chlorid and hydrochloric acid on albuminous compounds. It is said to yield urea when decomposed, and it may be a mixture of arginin and lysin.

ysatinine (li-sat'i-nin), n. [lysatine + -ine².] A colorless basic compound, C₆H₁₁ON₃, obtained, together with lysatine, by the action of stannous chlorid and hydrochloric acid on albuminous compounds.

lysidine (lis'i-din), n. $[lys(in) + -id^1 + -ine^2]$ ysidine (lis'i-din), n. [lys(in) + -w- | NHCH₂ A bright red basic compound, CH₃C < N - $\stackrel{\cdot}{\text{CH}_2}$ ',

prepared by the action of ethylenediamine hydrochlorid on sodium acetate. It melts at 105° C., boils at 195-198° C., and is used medicinally in cases of gout to remove uric acid, its salt with which is extremely readily soluble. Also called *ethylene ethenyldiamine* and μ-methylglyoxalidine.

lysimeter, n. 2. An instrument for determining the quantity of matter held in solution in a liquid.

lysin (li'sin), n. [Gr. $\lambda i\sigma$ - ιc , loosening, solution, dissolution, +- in^2 .] 1. In physiol. chem., one of the hexon bases; a diamino acid of the composition $C_6H_{14}N_2O_2$, resulting on decomposition of most albumins, including the prot-

amines. It is the mother-substance of the amines. It is the mother-substance of the ptomaine cadaverin.—2. A substance, found in blood serum, which, when injected into the body of an animal, will cause the dissolution or destruction of cellular elements. Such lysins may be produced artificially by immunization with various cells in animals of different species and are then lytic for of different species, and are then lytic for the corresponding cells. Such bodies are the hemolysins, the leucolysins, endotheliolysins, etc.

etc.

lysine (li'sin), n. [Gr. λίσ-ις, loosening, solution, dissolution, + -ine².] A colorless compound, CH₂ (NH₂) CH₂CH₂CH₂CH (NH₂)-COOH, formed by the action of dilute acids or of trypsin on albuminous substances of both vegetable and animal origin. It crystallizes in slender needles and forms salts with both acids and become Alexander of the salts with both acids and become Alexander of the salts and the salts are salts and the salts and the salts are salts and the salts and the salts are salts are salts and the salts are salts are salts and the salts are salts ar both acids and bases. Also called a-e-diaminocapric acid.

ysis, n. 3. The dissolution of various cells by means of lysins.

That complete agglutination has no effect upon subsequent solution (*lysis*) of the corpuscles will be shown when treating of the latter phenomena.

**Jour. Exper. Med., March 17, 1902, p. 4.

lysoform (lī'sō-fôrm), n. [lyso(l) + form-(aldehyde).] A clear, yellowish, odorless, soapy liquid containing formaldehyde and lysol: used as an antiseptic.

sol: used as an antiseptic.

lysogenesis (li-sō-jen'e-sis), n. [lys(in) + Gr.
γένεσις, production.] The production of a lysis, or the initiation of the process of lysis.

It has been completely established that in this phenomenon of lysogenesis there are two substances concerned, one specially developed or developed in excess, and the other present in normal serum.

Experimental (life iš pottik) a filtrogenesis.

(-et-) + -ic.] Uf or pertaining to lysogenesis. Sera from those bacteria which produce, so far as know, no soluble poison, are not antitoxic, having no effect upon the toxines already formed in the system in case of disease, but bactericidal acting directly upon the bacteria causing their disintegration and complete solution, to which the term bacteriolysis or lysogenetic action has been applied, and to this really marvellous property we have no analogy in the whole domain of chemicals, antiseptics or disinfectants.

Columbus Med. Jour., Jan., 1903, p. 14.

lysogenic (lī-sō-jen'ik), a. [lys(in) + Gr. -γενης, -producing, + -ic.] Same as *lysogenetic.

The first of these is the *lysogenic* action, which consists in the production of a change in the corresponding bacterium whereby it becomes granular, swells up, and ultimately may undergo dissolution.

Encyc. Brit., XXVI. 68.

[Gr. λύσ-ις, solution, + -ol.] lysol (li'sol), n. A 50 per cent. solution of the cresols of tar-oil in neutral soap: used as an antiseptic, in 0.25 to 2 per cent. aqueous solution, and also in histological work, as a macerating and isolating medium.

lyssi (lis'i), n. pl. [NL., < lyssa, q. v.] Little blisters on the tongue, occurring in the early stage of rabies.

stage of rables.

lyssic (lis'ik), a. Relating to lyssa or rables; hydrophobic; rable.

lysulfol (li-sul'fol), n. [ly(sol) + sulf(ur), sulph(ur), +-ol.] A thick, black, viscous liquid containing lysol and sulphur. It is miscible with water and is used externally in

certain skin diseases.

lysuric (lī-sū'rik), a. [lys-in + uric.] Noting an acid, $C_6H_{12}(COC_6H_5)N_2O_2$, a derivative of

Lythrulon (lith-rö'lon), n. [NL., ⟨Gr. λίθρον, gore, + οὐλον, gum (of the mouth).] A genus of fishes of the family Hæmulidæ, found on the

Pacific coast of tropical America.

lytic (lit'ik), a. [Gr. λυτικός, adj., < λύσις, loosening, λυτός, loosed; see lysis.] Relating to lysis or the destruction of the cells of a part; producing lysis.

ducing lysis.

The factors required for producing solution of cells are similar to those for causing solution of bacteria under like conditions. Only when the lytic serum is very fresh will solution be effected; the addition, however, of peritoneal exudate or fresh normal serum to immune serum which has lost the solvent property, suffices to restore it.

Jour. Exper. Med., March 17, 1902, p. 281.

Lyttonia (li-tō'ni-š), n. [NL., from the surname Lytton.] A genus of very peculiar brachiopods of the family Thecidiidæ, occurring in the Carboniferous formation of China and India. It possessed very large and highly inequivalve.

India. It possessed very large and highly inequivalve, irregular shells, with broad lateral expansion and numerous laterally directed brachial ridges in the ventral valve, with corresponding grooves in the dorsal valve.

lyttonioid (li-tō'ni-oid), a. [Lyttoni(a) + -oid.]
Related to or resembling the genus Lyttonia.





